



Environment Canada / Environnement Canada
 Atmospheric Environment / Environnement atmosphérique

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JUNE / JUIN

19 77

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

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: 786 FEET (ASL) ALTITUDE: PIEDS (MER)		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 HOURS HEURES		
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE BASE 18°C	GROWING DE CROISSANCE BASE 5°C	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm		AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION km/h			
1	17.6	8.1	12.9	5.1	7.9	90	57						19.1	N	NNE	30	9.0	
2	23.0	5.6	14.3	3.7	9.3	95	47						12.4	SSE	SSE	22	9.2	
3	23.6	14.2	18.9	0.0	13.9	88	26	1	1.6		1.6		19.9	WNW,NW	S	33	8.6	
4	25.1	9.9	17.5	0.5	12.5	80	28		Tr.		Tr.		13.5	W	NNE	22*	7.1	
5	17.9	11.2	14.6	3.4	9.6	94	63		3.4		3.4		15.5	N,ENE	N	33	6.6	
6	25.2	7.6	16.4	1.6	11.4	95	27						11.0	WNW	NNW	26	14.0	
7	24.5	12.7	18.6	0.0	13.6	79	42		Tr.		Tr.		18.5	NE	NE	30	12.3	
8	20.3	6.8	13.6	4.4	8.6	89	34						17.3	NE	NNE	28*	15.1*	
9	22.5	10.6	16.6	1.4	11.6	75	47		Tr.		Tr.		31.0	SSE	S	48	3.0	
10	19.4	12.5	16.0	2.0	11.0	96	66		14.0		14.0		18.3	SSE	S	30*	5.1	
11	16.0	10.8	13.4	4.6	8.4	86	47						23.4	N	N	33	0.8	
12	18.7	8.3	13.5	4.5	8.5	95	51		7.0		7.0		16.6	N	NE	31	0.9	
13	16.3	11.5	13.9	4.1	8.9	98	77		15.6		15.6		18.0	ENE	NE	28	2.2	
14	16.9	10.5	13.7	4.3	8.7	92	76		1.0		1.0		15.7	ESE	ENE	22	0.0	
15	22.8	14.8	18.8	0.0	13.8	96	76	1	1.6		1.6		17.3	ESE, SSE	SSE	26	4.7	
16	22.7	14.9	18.8	0.0	13.8	98	57		Tr.		Tr.		16.5	WNW	WNW	26*	7.6	
17	18.3	12.7	15.5	2.5	10.5	96	77	1	28.5		28.5		14.0	N	N	28	0.3	
18	22.2	11.4	16.8	1.2	11.8	96	59	1	0.6		0.6		21.6	NNW	NW	35	12.3	
19	18.2	11.4	14.8	3.2	9.8	95	62		1.0		1.0		25.6	N	N	41	5.9	
20	25.7	9.8	17.8	0.2	12.8	95	35						7.2	NNE	NW	13*	14.4	
21	25.4	12.2	18.8	0.0	13.8	89	45						13.6	S	S	30	14.4	
22	23.9	14.2	19.1	0.0	14.1	90	57						22.7	S	S	37	9.9	
23	26.4	16.0	21.2	0.0	16.2	92	58						15.0	S	NW	22*	10.3	
24	26.1	14.3	20.2	0.0	15.2	90	31						16.2	WNW	WNW	28	14.3	
25	29.5	12.5	21.0	0.0	16.0	79	38						26.8	S	SSE	44	13.6	
26	24.9	11.7	18.3	0.0	13.3	94	41						21.0	WNW	NNW	44	11.0	
27	24.2	9.6	16.9	1.1	11.9	92	37		2.0		2.0		11.8	NW	NW	33	7.1	
28	23.9	12.8	18.4	0.0	13.4	94	44	1	2.0		2.0		20.6	WNW	NW	44	14.0	
29	22.3	10.4	16.4	1.6	11.4	90	54		2.2		2.2		19.2	SE	SE	37	3.4	
30	17.5	11.1	14.3	3.7	9.3	96	69		7.9		7.9		31.3	W	NW	59*	2.9	
31																		
MEAN MOYENNE	22.0	11.3	16.7	TOTAL 53.1	TOTAL 351.0	91	51	TOTAL 5	TOTAL 88.4	TOTAL	TOTAL 88.4		18.4	PREVAILING DOMINANT	MAXIMUM NW	59	TOTAL 240.0	
NORMAL NORMALE	22.7	10.3	16.5	73.3	345.0			5.3	80.3	Tr.	80.3		18.5	SOUTH			258.9	

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	mm					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	53.1	47.0	73.3	TOTAL FOR MONTH TOTAL DU MOIS	351.0	397.8	345.0	14	13	9	3	0	0	0	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET	5644.1	5687.5	5863.9	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL	870.5	677.8	586.3										

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

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		JUNE / JUIN		19 77							
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	29.5	25	31.3	4	31.7	38.3	23	1900	26.1	19	24	1957	106
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	5.6	2	2.6	16	1.1	6.7	9,11,12	1873	-6.1	1,2	1st	1888	106
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	16.7		18.3		16.5	20.3		1910	12.3			1969	106
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	88.4		182.5		80.3	255.8		1901	3.3			1961	106
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	Nil		Nil		Tr.	1.3		1875					
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	88.4		182.5		80.3	255.8		1901	3.3			1961	106
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	14		18		12	20		1901	3			1961	94
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	28.5	17	28.7	25		152.4	26	1901					106
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE			Nil			.3	12	1969					106
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	28.5	17	28.7	25		152.4	26	1901					106
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES	3.8	17	8.4	6		9.1	30	1952					21
10 MINUTES	6.1	17	15.0	9		17.8	30	1952					21
15 MINUTES	6.6	17	18.0	9		22.4	30	1952					21
30 MINUTES	7.4	17	21.8	9		28.4	30	1952					21
60 MINUTES	7.9	10	22.1	9		35.6	18	1964					21
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	28.5	17	42.7	24 25		152.4	26	1901					106
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	18.4		18.8		18.5	23.0		1965	13.4			1928	57
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	NW 59	30	S 54	4	57	S 90	7	1954					39
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	NW 93	30	WSW 100	6	86	WNW 127	29	1967					34
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	240.0		261.3		258.9	376.0		1974	172.8			1925	78
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.42		98.15		98.31	98.60		1946	97.86			1973	31
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.49	6	99.28	30	99.61	1003.7	14, 1	1961 1967					39
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.31	30	96.09	13	96.70				94.86	7		1954	39
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES												YEARS DERNIÈRE ANNÉES	
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 INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE		
1968	32.8	2.8	15.3	82.8		82.8	19.3	NW 60	248.7	91.7	313.9		
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		

Although this month's mean temperature of 16.7C was only 0.2C higher than normal, it is worth noting that this was the first year on record that June temperatures were cooler than the preceding month. May's mean temperature was 1.1C higher. The highest temperature for the month was 29.5C on June 25, but this was well below the record high of 38.3C set June 23, 1900. The lowest temperature of 5.6C occurred on June 2.

Precipitation for June amounted to 88.4 mms which was only 8.1 mms above the normal value. June 17 received the heaviest rainfall in a 24 hour period, totalling 28.5 mm. This was well short of the record of 152.4 mms which fell on June 26, 1901. Five thunderstorms during June equalled the normal for this month.

The sun shone 240.0 hours, which was 18.9 hours less than normal.

DAILY WEATHER SUMMARY FOR JUNE 1977AT WINNIPEG, MANITOBA

1. Below normal temperatures. Cloudy clearing late afternoon. Mostly light winds.
2. Normal temperatures. Partly cloudy. Mostly light winds.
3. Above normal temperatures. Partly cloudy. Thunder 1:55 a.m. to 3:11 a.m. Showers 2:40 a.m. to 3:35 a.m. Gusty WNW winds in the afternoon.
4. Above normal temperatures. Partly cloudy. Showers 2:36 p.m. to 9:38 p.m. Light winds.
5. Near normal temperatures. Cloudy. Light winds becoming moderate in evening. Showers 8:05 a.m. to 3:38 p.m.
6. Normal temperatures. Partly cloudy. Light winds.
7. Above normal temperatures. Partly cloudy. Mostly light winds. Showers 10:18 a.m. to 10:52 a.m.
8. Near normal temperatures. Mainly clear. Light winds.
9. Near normal temperatures. Mainly cloudy. Winds moderate becoming gusty in the afternoon. Showers 11:06 a.m. to 11:20 a.m., 9:22 p.m. to 9:35 p.m., 11:10 p.m. continued.
10. Normal temperatures. Cloudy. Showers to 1:20 a.m., 9:26 a.m. to 2:02 p.m. Mostly light winds.
11. Below normal temperatures. Cloudy. Mainly moderate winds.
12. Temperatures below normal. Cloudy. Light winds. Rain 2:50 p.m. continued.
13. Below normal temperatures. Cloudy. Light winds. Rain to 8:46 a.m., 10:15 a.m. to 1:22 p.m. Light fog in morning.
14. Below normal temperatures. Cloudy. Light winds. Drizzle 6:35 to 8:35 a.m. Rain 6:14 p.m. to 9:03 p.m.
15. Normal temperatures. Cloudy. Light winds. Thundershowers 5:30 p.m. to 6:45 p.m. Rain 11:36 a.m. to 6:19 p.m. Light fog in morning.
16. Normal temperatures. Cloudy with fog in morning becoming partly cloudy in afternoon. Light winds. Heavy fog 5:26 a.m. to 5:33 a.m. Visibility reduced. Drizzle 2:40 to 3:20 a.m., 7:18 to 7:27 a.m. Showers 11:41 to 11:50 a.m.
17. Near normal temperatures. Cloudy. Light winds. Thundershowers 9:33 a.m. to 11:57 a.m. Showers 3:29 a.m. to 9:15 p.m.
18. Normal temperatures. Partly cloudy. Winds light except moderate in the afternoon. Thunder 12:50 p.m. to 1:45 p.m. Showers 4:17 p.m. to 4:33 p.m.
19. Below normal temperatures. Mainly cloudy. Winds mainly moderate with gusts in the afternoon. Showers 6:09 p.m. to 6:20 p.m., 11:15 p.m. to 11:48 p.m.
20. Mainly sunny with normal temperatures and light winds.
21. Sunny with normal temperatures and light winds.
22. Above normal temperatures. Sunny becoming cloudy late morning. Gusty southerly winds afternoon and evening.
23. Above normal temperatures. Cloudy clearing in afternoon. Light winds.
24. Above normal temperatures. Sunny. Light winds.
25. Above normal temperatures. Sunny. Gusty southerly winds.
26. Normal temperatures. Partly cloudy. Mostly light winds.
27. Below normal temperatures. Sunny becoming cloudy by afternoon. Showers 4:25 p.m. continued. Light winds.
28. Partly cloudy. Showers to 3:24 a.m. 12:59 p.m. to 4:14 p.m. Thunder 2:44 p.m. to 3:08 p.m. Gusty NW winds in afternoon. Normal temperatures.
29. Below normal temperatures. Mostly cloudy. Showers 11:08 a.m. to 4:41 p.m. 7:24 p.m. to 7:38 p.m. Gusty SSE wind in afternoon.
30. Below normal temperatures. Mostly cloudy. Showers 9:40 a.m. to 8:52 p.m. Very strong gusty W to NW winds. Some property damage.

1977

JUNE

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE

LOCAL STANDARD TIME ALL TEMPERATURES IN DEGREES CELSIUS

DATE	01.	02.	03.	04.	05.	06.	07.	08.	09.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
1.	15.8	15.2	13.9	13.2	12.8	13.0	13.7	14.8	15.0	14.6	14.4	13.9	14.7	15.5	16.2	16.9	16.9	16.4	16.1	14.5	11.9	10.1	9.3
2.	8.1	8.5	8.2	7.8	6.0	8.6	10.9	13.3	15.6	17.2	18.4	20.0	20.7	20.9	22.0	21.5	22.6	21.4	20.4	20.0	18.4	18.0	17.9
3.	17.4	18.0	16.4	16.1	15.2	14.7	15.0	13.3	19.6	20.0	21.5	21.9	22.1	20.9	22.0	21.2	21.8	21.2	20.2	17.8	17.0	15.8	14.7
4.	14.2	13.4	12.9	11.5	11.0	13.9	15.0	14.2	20.2	21.6	23.0	23.9	24.1	24.0	22.1	21.0	20.1	18.4	18.0	16.8	15.8	15.5	15.5
5.	15.1	15.1	14.6	14.5	14.4	14.9	15.4	16.1	14.6	16.1	16.6	17.1	16.0	15.8	16.4	15.7	16.5	16.5	16.6	14.8	13.0	11.9	12.5
6.	11.2	11.5	9.9	8.4	7.8	9.6	14.6	16.3	17.8	18.8	21.4	21.4	22.4	22.8	24.0	24.2	24.2	22.5	21.6	19.7	17.8	17.3	16.4
7.	15.0	15.8	15.8	14.6	12.7	15.1	17.0	17.3	17.9	22.1	21.5	23.1	23.0	23.7	23.6	23.7	23.3	22.7	21.6	19.2	16.8	15.7	14.9
8.	14.5	12.6	12.1	12.3	10.3	6.8	9.6	12.2	12.5	13.8	14.4	15.5	16.8	17.6	18.3	19.0	19.6	20.0	18.9	17.2	15.3	16.0	14.1
9.	12.7	11.5	11.0	11.0	11.1	11.5	12.1	15.0	16.5	16.4	17.6	19.5	20.4	21.4	19.0	18.1	18.0	17.9	17.9	17.4	17.5	16.7	15.7
10	13.5	13.1	13.5	14.0	14.5	14.8	16.0	16.2	17.0	14.5	15.0	14.4	13.6	14.9	16.0	17.0	19.0	18.8	18.7	17.4	14.5	14.4	12.5
11	13.6	13.5	12.5	11.7	10.9	11.7	12.0	12.1	13.0	13.5	14.3	14.2	15.5	15.0	14.7	15.4	15.5	15.7	15.2	14.1	13.8	12.5	11.7
12	10.8	10.0	9.6	9.3	8.9	8.7	8.4	9.0	12.0	14.8	14.9	16.8	16.9	18.0	17.5	17.2	16.9	14.6	13.9	12.6	12.4	12.0	12.0
13	11.6	11.5	11.7	11.8	12.3	12.7	12.9	13.7	13.8	15.3	15.4	15.1	15.4	16.1	15.6	15.8	15.5	15.5	15.3	14.3	12.6	12.7	12.3
14	12.3	11.9	11.7	11.7	11.4	10.7	10.5	10.8	11.5	12.0	13.5	13.9	15.2	15.4	15.5	16.0	16.5	16.7	16.0	15.8	15.6	15.2	15.4
15	15.0	15.1	14.9	14.8	14.8	15.0	15.3	16.4	17.3	19.5	19.8	19.2	18.2	20.4	21.1	22.7	21.2	21.0	20.0	18.8	17.5	16.5	15.4
16	15.8	16.1	15.4	15.7	15.8	15.8	16.2	17.2	17.5	18.3	19.1	20.0	19.9	20.8	21.1	21.5	22.0	21.9	21.5	19.5	17.7	16.5	15.5
17	15.1	15.1	15.3	15.0	15.1	15.8	16.5	17.2	18.0	16.5	15.4	15.1	15.2	16.1	16.9	16.5	15.1	14.5	14.5	14.2	14.2	13.9	13.5
18	12.7	12.3	12.1	12.4	12.8	11.8	14.3	16.7	18.5	19.0	20.5	20.0	21.0	21.5	21.5	19.8	18.5	18.9	17.7	17.2	15.4	15.0	14.3
19	13.8	12.6	12.2	11.7	11.4	11.7	13.0	15.2	15.5	17.3	17.9	16.6	16.9	16.5	16.0	15.7	16.5	16.0	13.4	13.6	13.4	13.1	13.0
20	12.6	11.9	11.7	10.9	10.0	9.8	11.7	14.0	16.1	17.1	19.6	20.8	22.2	23.0	23.7	25.0	24.5	23.8	23.5	22.0	19.4	16.9	16.0
21	16.5	15.2	13.7	13.4	12.6	12.5	14.1	17.3	19.1	20.5	22.9	24.2	24.6	24.6	24.7	24.0	23.2	23.1	22.5	20.4	19.0	18.5	17.3
22	16.0	16.1	15.5	14.9	14.5	14.6	15.3	17.4	19.4	20.5	21.9	22.6	22.8	23.0	21.8	19.7	19.5	19.6	19.0	18.5	18.1	17.5	16.4
23	18.1	16.3	16.6	16.5	16.4	16.4	16.5	16.3	18.6	21.1	20.7	22.3	22.5	23.9	24.4	25.3	25.9	25.4	24.6	22.8	20.8	20.2	19.3
24	18.1	14.3	16.4	15.6	14.6	14.7	15.4	17.5	19.5	22.9	24.1	24.8	25.1	25.4	25.3	25.2	25.5	24.7	23.5	19.8	19.0	16.5	16.5
25	15.1	15.0	15.1	14.1	12.6	15.6	16.1	18.6	20.6	23.0	24.5	25.9	26.9	28.6	29.0	29.0	28.9	28.1	27.2	26.0	24.7	24.4	23.5
26	22.2	20.6	19.7	18.4	17.7	17.3	17.5	19.8	23.4	23.1	24.3	24.0	24.0	21.7	19.9	19.1	19.1	19.1	18.9	16.7	13.7	13.5	13.4
27	11.8	10.8	10.6	10.8	10.2	10.2	11.5	14.8	17.8	20.6	21.8	23.2	22.9	22.2	22.4	20.4	18.3	15.4	15.6	16.0	14.7	13.8	13.6
28	13.0	13.5	13.3	13.4	13.4	13.8	15.5	17.9	19.6	21.5	22.6	21.9	22.2	20.4	15.8	19.1	21.0	21.1	20.0	18.6	15.8	13.3	13.5
29	13.0	13.1	12.7	12.7	10.9	13.4	12.4	13.6	16.0	18.3	19.9	21.3	21.0	19.5	18.5	18.0	20.0	20.0	19.4	18.1	17.2	16.5	15.8
30	14.6	13.3	12.4	11.8	11.2	11.1	12.5	13.1	14.6	14.5	13.9	14.3	13.8	14.4	16.3	16.0	14.6	14.8	14.4	14.0	13.2	12.5	11.7
MEAN	14.3	13.7	13.4	13.1	12.5	12.5	13.3	15.0	16.5	17.8	18.6	19.1	19.7	19.9	20.2	20.1	20.1	20.0	19.5	18.0	17.6	16.2	14.8

INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE

MINNAPES

TEMPERATURES AT

ALL TEMPERATURES IN DEGREES CELSIUS

LOCAL STANDARD TIME

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.	13.2	11.1	11.1	11.7	11.0	11.0	11.3	12.0	12.8	12.7	12.5	12.1	11.7	11.8	12.1	12.2	12.2	12.3	12.4	11.8	11.3	10.1	9.0	8.4
2.	7.4	7.6	7.4	7.2	5.6	5.6	8.2	9.6	10.8	12.3	13.0	13.2	14.5	14.1	14.3	14.5	14.6	15.4	14.6	15.0	14.4	13.9	13.9	13.7
3.	13.5	13.2	13.0	13.4	13.9	13.5	14.9	16.1	13.2	14.7	14.1	11.5	11.5	13.6	12.0	13.1	13.2	13.5	13.0	12.8	12.5	11.9	11.7	11.0
4.	11.8	10.5	10.4	9.5	9.2	10.0	11.1	12.1	13.5	14.8	13.0	13.2	13.6	13.5	13.8	13.0	13.5	13.7	14.0	13.2	12.8	12.7	12.7	12.5
5.	12.8	12.6	12.6	12.4	12.3	12.1	12.9	13.0	13.4	14.0	14.6	15.4	14.8	13.6	14.0	14.2	13.4	13.3	12.5	12.8	12.5	11.6	11.1	11.3
6.	10.2	9.7	9.0	8.1	8.0	7.5	9.0	11.9	12.5	13.0	13.7	14.2	14.2	15.6	15.1	16.5	14.7	13.4	14.9	14.2	13.8	13.2	12.5	12.1
7.	12.0	11.8	12.0	11.4	10.8	12.5	13.2	13.6	14.9	17.7	17.7	16.1	18.9	16.1	16.4	15.4	16.1	15.5	15.2	14.3	13.2	13.4	12.5	11.6
8.	11.2	10.8	10.2	9.7	8.5	8.1	8.2	9.6	9.2	9.9	9.8	10.2	10.8	10.8	11.1	11.6	12.0	11.2	12.2	11.4	11.1	10.0	10.1	10.2
9.	9.5	9.0	8.6	8.6	8.6	9.0	9.6	11.5	11.9	11.8	12.3	12.6	13.8	14.0	14.4	13.3	12.9	12.6	12.2	11.8	12.0	12.0	11.5	11.1
10.	11.1	11.2	11.5	11.7	12.0	12.0	12.0	12.5	12.0	13.4	13.5	13.0	13.7	13.2	14.4	14.6	15.1	15.6	15.4	15.1	14.8	13.6	13.6	12.1
11.	13.1	11.5	10.8	10.2	9.7	9.7	9.7	9.8	10.0	10.3	10.4	10.8	10.1	11.0	10.3	10.1	10.3	10.4	10.0	10.3	10.1	9.8	9.5	8.6
12.	7.7	7.5	7.6	7.7	7.6	7.6	7.3	7.8	9.8	11.8	11.9	11.9	13.9	12.6	13.0	12.0	12.5	12.3	13.1	13.2	12.0	11.9	11.9	11.4
13.	11.3	11.3	11.5	11.7	12.1	12.5	12.8	13.5	13.7	14.9	14.6	14.3	14.5	14.6	14.7	14.1	13.8	13.3	13.2	13.1	12.2	11.4	11.2	11.2
14.	11.2	10.1	10.1	10.0	10.1	9.6	9.4	9.6	10.6	10.8	11.2	12.0	12.4	13.2	13.4	13.5	14.0	14.3	14.1	14.5	14.8	14.6	14.3	14.3
15.	14.2	14.3	14.2	14.2	14.3	14.5	14.7	15.5	16.4	17.6	17.2	17.0	17.0	16.8	17.9	18.6	19.8	18.5	18.9	17.8	17.7	16.5	15.8	15.4
16.	15.4	15.5	15.0	15.4	15.4	15.7	15.9	15.5	16.1	16.4	16.1	16.8	16.1	17.0	16.8	15.9	16.2	16.6	16.3	16.3	15.7	15.1	14.5	14.2
17.	13.9	14.0	14.2	13.7	14.1	14.5	14.7	15.0	15.4	15.5	16.0	15.0	14.8	14.9	15.7	15.9	15.8	14.5	14.0	14.0	13.9	13.9	13.5	12.9
18.	12.2	11.8	11.5	12.0	12.3	11.3	11.3	13.1	14.8	15.7	16.0	16.8	16.6	16.7	16.8	16.4	16.4	16.2	15.5	14.5	14.2	13.8	13.4	12.7
19.	12.7	11.5	11.3	11.1	11.0	11.3	12.2	12.6	13.1	14.0	13.6	13.3	13.5	13.2	12.6	12.9	12.8	13.1	12.6	12.0	12.4	12.0	11.2	11.4
20.	11.3	11.0	11.0	10.5	9.5	9.3	10.8	12.2	13.8	14.2	16.4	16.0	16.0	15.7	15.5	15.9	15.0	14.5	14.9	15.1	14.7	13.2	12.9	13.4
21.	12.8	12.8	12.2	12.1	11.6	11.4	12.6	14.8	15.4	16.0	16.4	16.1	17.0	16.8	17.4	16.9	16.3	16.1	16.9	17.0	16.4	15.4	15.5	15.0
22.	14.3	14.4	14.0	13.5	13.3	13.3	13.8	15.0	16.4	16.7	17.4	17.7	17.1	17.5	17.4	17.2	16.3	16.1	16.1	16.0	16.0	15.7	15.5	15.0
23.	15.0	15.3	15.4	15.3	15.4	15.5	15.6	15.5	16.4	17.0	18.0	17.8	19.4	19.6	20.5	20.8	20.2	20.0	19.5	19.4	19.4	17.4	16.7	16.8
24.	16.5	15.2	14.9	14.7	13.1	13.0	13.4	14.9	16.1	16.7	17.0	15.4	15.0	15.3	15.1	14.8	14.8	15.5	15.0	15.6	14.6	14.0	13.5	13.1
25.	12.5	12.1	12.0	11.4	10.7	11.8	12.1	13.6	15.0	16.2	15.6	17.1	17.1	18.0	18.9	19.2	18.8	19.6	19.3	19.6	19.2	19.0	19.2	19.3
26.	19.0	18.6	18.4	17.6	16.9	16.7	16.6	17.8	18.0	17.8	17.1	16.3	16.2	16.1	13.9	14.1	13.2	13.2	13.4	12.6	12.4	10.8	10.7	10.9
27.	10.1	9.5	9.0	9.1	9.0	9.2	10.0	12.5	13.4	15.4	15.2	16.4	14.4	14.8	15.1	15.3	14.4	14.0	13.8	14.3	15.1	14.0	12.6	12.9
28.	12.7	12.9	12.6	12.5	12.9	12.8	14.2	14.2	15.1	15.8	16.1	15.1	16.1	15.7	14.4	13.9	16.2	15.9	15.7	14.6	13.8	13.0	11.7	12.4
29.	11.7	10.8	11.1	11.2	10.0	11.2	10.8	12.1	13.4	14.3	14.9	15.8	15.3	15.8	16.3	16.7	16.4	16.8	16.6	16.5	16.2	16.2	14.4	13.4
30.	12.6	11.8	11.2	10.7	10.1	10.0	10.5	11.1	11.9	13.2	12.1	13.0	13.4	13.2	14.0	14.5	14.1	13.4	13.4	12.9	12.6	12.1	11.0	10.7
MEAN	12.4	12.0	11.8	11.6	11.3	11.3	11.6	12.9	13.7	14.3	14.0	14.7	14.7	14.8	14.9	14.9	14.8	14.7	14.6	14.4	14.1	13.4	12.9	12.6

1977

INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE

ABSTRACT OF THE WIND AT WINNIPEG
ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

HOUR STARTING	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	ENE 26	NNW 17	NNW 19	NNW 19	NNW 20	NNW 24	NNE 24	NNE 24	NNE 28	NNE 30	NNE 28	NNE 30	NNE 28	NNE 24	NNW 19	NNW 20	NNW 22	NNE 17	NNE 19	NNE 17	NNE 11	NNE 9	NNE 7	NNW 9	39	11 CST
2	NNW 11	NNE 11	ENE 9	NNE 0	NNE 6	NNE 0	SSE 7	SSE 13	SSE 11	SSE 17	SSW 9	SSW 17	SSW 17	SSW 9	SSW 17	SSW 19	SSW 22	SSW 19	SSW 13	SSE 19	SSE 17	SSE 15	SSE 17	SSE 20	33	18 CST
3	SSE 24	SSE 20	SSE 24	SSE 28	SSE 33	SSE 15	SSW 19	SSW 13	SSW 17	SSW 20	SSW 28	SSW 26	SSW 30	SSW 26	SSW 22	SSW 20	SSW 20	SSW 17	SSW 15	SSW 9	SSW 15	SSW 7	SSW 7	SSW 7	46	15 CST
4	W 9	SW 13	WSW 9	WSW 11	WSW 11	WSW 9	WSW 11	WSW 13	WSW 13	WSW 17	WSW 17	WSW 17	WSW 7	WSW 11	WSW 7	WSW 9	WSW 13	WSW 17	WSW 17	WSW 20	WSW 20	WSW 22	WSW 20	WSW 17		
5	ESE 11	ESE 13	SE 9	SSE 13	SSE 15	SSE 11	ESE 15	ESE 15	ESE 19	ESE 13	ESE 19	ESE 13	ESE 17	ESE 20	ESE 22	ESE 33	ESE 24	ESE 15	ESE 22	ESE 11	ESE 11	ESE 6	ESE 9	ESE 15	44	16 CST
6	NNW 13	NNW 13	NNW 15	NNW 7	NNW 6	NNW 7	NNW 9	NNW 11	NNW 9	NNW 6	NNW 6	NNW 6	NNW 6	NNW 7	NNW 7	NNW 9	NNW 6	NNW 26	NNW 24	NNW 20	NNW 19	NNW 15	NNW 13	NNW 20	31	17 CST
7	S 15	SSW 17	SW 15	ENE 22	ENE 22	ENE 4	ENE 7	ENE 11	ENE 9	ENE 6	ENE 6	ENE 6	ENE 6	ENE 7	ENE 7	ENE 9	ENE 6	ENE 26	ENE 24	ENE 20	ENE 19	ENE 15	ENE 13	ENE 26	37	14 CST
8	NNE 28	NNE 19	NNE 17	NNE 20	NNE 19	NNE 11	NNE 13	NNE 22	NNE 28	NNE 20	NNE 24	NNE 15	NNE 26	NNE 15	NNE 15	NNE 15	NNE 9	NNE 17	NNE 11	NNE 13	NNE 9	NNE 11	NNE 19	NNE 19		
9	SE 19	SSE 19	SSE 19	SSE 22	SSE 19	SSE 24	SSE 30	SSE 30	SSE 30	SSE 30	SSE 33	SSE 35	SSE 43	SSE 48	SSE 46	SSE 37	SSE 33	SSE 33	SSE 39	SSE 39	SSE 41	SSE 35	SSE 37	SSE 33	70	14 CST
10	S 30	SSE 28	SSE 30	SSE 26	SSE 28	SSE 26	SSE 13	SSE 20	SSE 13	SSE 6	SSE 11	SSE 9	SSE 15	SSE 17	SSE 15	SSE 17	SSE 13	SSE 13	SSE 13	SSE 11	SSE 11	SSE 15	SSE 13	SSE 13	41	10 CST
11	N 17	NNE 33	NNE 26	NNE 24	NNE 31	NNE 28	NNE 22	NNE 26	NNE 30	NNE 26	NNE 24	NNE 22	NNE 24	NNE 22	NNE 19	NNE 22	NNE 19	NNE 19	NNE 22	NNE 15	NNE 15	NNE 13	NNE 26	NNE 26	52	01 CST
12	N 26	N 24	N 19	N 11	N 11	N 13	NNE 6	NNE 9	NNE 15	NNE 13	NNE 9	NNE 9	NNE 6	NNE 9	NNE 11	NNE 9	NNE 15	NNE 28	NNE 31	NNE 28	NNE 28	NNE 28	NNE 28	NNE 28	43	23 CST
13	ENE 22	ENE 24	ENE 15	ENE 9	ENE 11	ENE 15	ENE 13	ENE 0	ENE 22	ENE 26	ENE 22	ENE 24	ENE 24	ENE 26	ENE 26	ENE 26	ENE 26	ENE 28	ENE 26	ENE 22	ENE 22	ENE 17	ENE 11	ENE 6	37	18 CST
14	NE 19	NE 17	NE 11	NE 17	NE 15	NE 22	NE 13	NE 15	NE 13	NE 9	NE 13	NE 15	NE 15	NE 15	NE 15	NE 15	NE 15	NE 15	NE 15	NE 15	NE 17	NE 20	NE 20	NE 17		
15	SE 17	ESE 20	ESE 19	ESE 17	ESE 19	ESE 17	ESE 15	ESE 15	ESE 20	ESE 19	ESE 19	ESE 15	ESE 17	ESE 15	ESE 26	ESE 19	ESE 15	ESE 15	ESE 19	ESE 9	ESE 15	ESE 15	ESE 13	ESE 15	35	14 CST

16	NW	WNW	WNW	WNW	WNW	N	N	N	NNW	NW	WNW	NW	WNW	NW	NNW	NW	NNW	NW	WNW	W	WSW	WSW	NW	39	14 CST
17	WSW	WSW	NW	S	W	S	NNW	SE	E	E	NW	W	N	N	N	N	NNW	NW	N	NNW	NW	N	39	17 CST	
18	W	W	WNW	WNW	WNW	WNW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	48	13 CST
19	W	WNW	WNW	WNW	WNW	N	N	N	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	NNE	N	NNE	N	N	59	18 CST
20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	59	18 CST
21	SSE	SSE	S	SE	C	C	SE	S	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	S	48	13 CST
22	S	S	S	SSE	SSE	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	57	14 CST
23	SSE	S	SSE	SSE	S	S	S	S	S	S	WSW	NNW	W	NW	NNW	NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	33	18 CST
24	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	39	11 CST
25	SSW	SW	SSW	SSW	S	S	S	S	S	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	65	13 CST
26	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	50	12 CST
27	S	WSW	SW	C	C	S	S	SW	WSW	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	46	16 CST
28	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	70	15 CST
29	SSW	SSW	SSW	S	SSW	S	SSE	S	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	50	17 CST
30	WNW	W	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	93	16 CST

SUM

MEAN 16.216.415.615.414.715.114.516.317.218.220.122.121.922.622.322.622.321.419.216.416.115.815.5

