

NOV 19 1979



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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS OCTOBER / OCTOBRE

1979

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 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	HOURS HEURES						
1	15.2	4.2	9.7	8.3	4.7	94	45					16.8	NW	NNE 30*	9.9						
2	18.4	7.4	12.9	5.1	7.9	93	43			0.6		24.0	S	NNW 37	5.0						
3	8.9	0.0	4.5	13.5	0.0	87	58			0.6		33.8	NNW	NNW 46*	1.4						
4	15.7	-3.2	6.3	11.7	1.3	93	34					22.7	SSW	S 41*	8.7						
5	14.0	0.1	7.1	10.9	2.1	88	36			0.6		31.6	NNW	NNW 48*	4.4						
6	12.8	-2.8	5.0	13.0	0.0	77	37					12.3	W	S 26	4.3						
7	11.9	-0.2	5.9	12.1	0.9	86	42					13.8	NNW	NNW 33	4.6						
8	7.9	0.5	4.2	13.8	0.0	94	44			1.0		20.1	N	N 46	4.1						
9	7.8	-1.0	3.4	14.6	0.0	92	38					16.5	NW	N 31	6.5						
10	9.0	-0.6	4.2	13.8	0.0	97	67			3.5		11.8	SSW	SSW 20	0.2						
11	4.8	-2.5	1.2	16.8	0.0	89	41					24.8	NNE	NNE 33*	4.4						
12	3.7	-7.4	-1.9	19.9	0.0	87	49					25.8	N	N 41	3.9						
13	5.6	-10.6	-2.5	20.5	0.0	89	42			Tr.	Tr.	13.8	SSW	S 22*	3.9						
14	18.7	4.0	11.4	6.6	6.4	66	34			Tr.	Tr.	13.8	SSW	SSW 28*	9.0						
15	21.4	2.5	12.0	6.0	7.0	81	26					16.7	S	S 28*	8.6						
16	12.2	0.0	6.1	11.9	1.1	83	40			Tr.	Tr.	21.4	NW	NW 37	8.6						
17	14.0	-3.5	5.3	12.7	0.3	94	31					12.4	S	S 26	6.2						
18	13.8	2.6	8.2	9.8	3.2	81	46			Tr.	Tr.	20.5	SSE	S 35*	2.9						
19	7.5	-3.1	2.2	15.8	0.0	97	67			3.4		10.9	E, cal	E 24*	0.1						
20	10.6	2.0	6.3	11.7	1.3	98	62			2.0		24.6	WSW	W 29	0.9						
21	4.9	-1.4	1.8	16.2	0.0	90	63					21.4	NW	NW 41	5.2						
22	3.6	-3.6	0.0	18.0	0.0	95	70			Tr.	Tr.	12.3	NW	NNE 22*	0.0						
23	3.1	0.0	1.6	16.4	0.0	84	61					6.7	ENE	N 15	2.3						
24	4.5	-6.2	-0.9	18.9	0.0	91	62					8.8	E	N 15	3.2						
25	5.6	-6.9	-0.7	18.7	0.0	91	48					12.8	SE	SE 24	9.1						
26	9.3	2.2	5.8	12.2	0.8	82	47			1.2		24.8	SE	SE 35*	0.2						
27	11.2	-0.8	5.2	12.8	0.2	100	66					9.4	NW	NW 22	4.4						
28	11.0	-1.9	4.6	13.4	0.0	100	66					12.9	ESE	ESE 20	3.1						
29	6.0	-3.0	1.5	16.5	0.0	97	78			Tr.	Tr.	14.1	NNE	NNE 24	0.0						
30	6.2	-1.2	2.5	15.5	0.0	95	65					10.8	NNE	NE 17	2.8						
31	2.6	-0.5	1.1	16.9	0.0	100	81			0.7	1.8	2.5	0	37.8	NNE	N 50*	0.0				
MEAN MOYENNE	9.7	-1.1	4.3	424.0	37.2	90	51			13.6	1.8	15.4		18.1	NW* DOMINANTE	N 50	127.9				
NORMAL NORMALE	11.9	1.1	6.6	355.7	93.1	89	48	0.5		29.2	5.6	34.8		20.3	SOUTH	58	158.4				
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	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	424.0	363.6	355.7	TOTAL FOR MONTH TOTAL DU MOIS	37.2	67.3	93.1	9	6	4	0	0	1	1	0	0	0				
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET	664.3	591.4	588.9	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL	1574.6	1846.9	1785.3	9	6	4	0	0	1	1	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) *By Kms NNW

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		OCTOBER / OCTOBRE		19 79							
Temperature/Température Precipitation/Précipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	°Celsius — Millimètres (mm) — Millimètres (mm) Centimètres (cm) Kilomètres/par heure (km/h) — 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		21.4	15	22.4	10	23.1	30.0	1	1922	13.3	3	1969	108
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		-10.6	13	-5.6	28	-8.9	-1.7	8	1927	20.6	26	1936	108
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		4.3		6.3		6.6	12.8		1963	0.3		1887	108
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		13.6		9.4		29.2	142.0		1898	0.3		1933	108
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE		1.8		0.8		5.6	38.6		1919	Nil	SVRI		108
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		15.4		10.2		34.8	144.0		1949 1898	2.5		1976	108
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		9		13		8	16		1898	2		1963	96
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		3.5	10	2.7	3		74.4	10	1949				108
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE		1.8	31	0.8	27		24.6	30	1971				108
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		3.5*	10	2.7	3*		74.4	10	1949				108
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		0.3	8,20	0.5	3		3.3	11	1960				28
10 MINUTES		0.6	20	1.0	3		3.8	11	1960				20
15 MINUTES		0.9	20	1.0	3		4.6	15	1968				20
30 MINUTES		1.1	20	1.2	3		7.4	15	1968				20
60 MINUTES		1.1	20	1.2	3		10.2	15	1968				20
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		5.4	19-20	3.7	2-3		74.4	10	1949				108
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		18.1		17.8		20.3	25.7		1949	12.7		1925	59
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		N50	31	SSW59	23	58	NW 85	10	1949				41
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		NNW87	5	SSW82	23	84	N114	15	1952				41
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		127.9		117.5		158.4	235.9		1963	72.4		1917	80
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.33		98.34		98.51	99.11		1957	98.20		1973	41
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.61	25	99.97	22	100.25	100.92	6	1954			1968	41
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		95.70	20	96.14	24	96.45				93.87	10	1949	41
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													
				TEN (10) DIX				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		
1970	20.0	-6.7	6.0	22.4	4.3	26.7	20.4	NW 51	149.3	370.0	77.2		
1971	19.4	-10.0	6.3	41.9	30.4	72.1	18.2	NNW48	117.5	358.9	88.9		
1972	20.6	-13.3	2.4	11.2	15.2	24.6	16.9	NNW56	168.2	479.4	42.8		
1973	23.3	-3.9	7.8	34.8	2.3	37.1	18.3	SSE48	154.7	310.6	110.6		
1974	26.1	-7.2	5.9	3.3	2.5	5.3	17.7	NW,SSE	167.8	371.1	65.0		
1975	26.6	-6.1	6.9	36.7	2.8	38.3	18.3	51					
1976	28.1	-16.6	2.9	2.5	Tr.	2.5	18.3	WNW50	137.3	345.7	95.7		
1977	23.3	-4.9	7.5	30.2	Tr.	30.2	18.1	NNW54	130.0	470.1	56.5		
1978	22.4	-5.6	6.3	9.4	0.8	10.2	17.8	NW 44	203.9	324.3	88.8		
1979	21.4	-10.6	4.3	13.6	1.8	15.4	18.1	SSW59	117.5	363.6	67.3		
								N 50	127.9	424.0	37.2		

October 19-20, 5.4

The month was cool and dry. Only 15.4 MM of precipitation fell, less than half the normal 34.8 MM. A snowfall of 1.8 cm was recorded on the 31st, the normal snowfall for the month is 5.6 cm.

The mean temperature was 4.3 as compared to the normal 6.6. The highest temperature recorded was 21.4 on the 15th while the lowest was -10.6 on the 13th. The first fall frost occurred on the 3rd, followed by a killing frost on the 4th. This brought the frost free period for 1979 to 136 days, 18 days longer than the normal.

Sunshine was below normal, 127.9 hours as compared to the normal 158.4. Mean winds were below normal as well averaging 18.1 Km/h. The normal is 20.3 Km/h.

DAILY WEATHER SUMMARY FOR OCTOBER 1979

AT WINNIPEG, MANITOBA

1. Near normal temperatures. Mostly sunny. Light winds.
2. Above normal temperatures. Partly cloudy. Moderate winds, gusty SSW winds in morning, NNW in the evening to 65 Kms. Showers: 2:45 a.m. to 10:19 a.m., 3:35 p.m. to 7:50 p.m.
3. Below normal temperatures. Mostly cloudy. Showers 5:15 a.m. to 11:07 a.m. Moderate winds, gusty NNW to N winds in the morning and afternoon to 70 Kms.
4. Below normal temperatures. Mostly sunny. Moderate winds. Gustly SSW to SW winds in the afternoon and evening to 65 Kms.
5. Below normal temperatures. Partly cloudy. Showers: 12:11 p.m. to 4:05 p.m. Moderate winds. Gustly NNW winds to 87 Kms.
6. Below normal temperatures. Cloudy clearing in afternoon. Mostly light winds but occasional SW gusts in early afternoon.
7. Below normal temperatures. Partly cloudy. Mostly light winds, but gusty NNW winds late morning and early afternoon.
8. Below normal temperatures. Partly cloudy. Rain 2:24 a.m. to 6:11 a.m. Moderate winds. Gustly north winds to 67 Kms.
9. Below normal temperatures. Partly cloudy. Mostly light winds but gusty NW wind in afternoon.
10. Below normal temperatures. Cloudy. Showers or light rain 4:54 a.m. to 4:01 p.m. Light fog in morning, visibility slightly restricted. Mostly light winds.
11. Below normal temperatures. Partly cloudy. Moderate winds. Gustly NNE winds in afternoon.
12. Below normal temperatures. Partly cloudy. Snowflurries 8:15 a.m. to 11:30 a.m. Moderate winds. Gustly north winds in morning and early afternoon. Visibility slightly restricted in flurries.
13. Cold. Partly cloudy. Light rain 9:38 p.m. to 10:55 p.m. Mostly light winds.
14. Above normal temperatures. Sunny. Showers 3:47 a.m. to 6:48 a.m. Mostly light winds but gusty SSW wind in the morning.
15. Above normal temperatures. Sunny. Mostly light winds but gusty SSW wind in the afternoon. Smoke over the city in the evening.
16. Normal temperatures. Mostly sunny. Showers 00:58 a.m. to 01:10 a.m. Moderate winds. Gustly NNW winds in morning and afternoon.
17. Near normal temperatures. Mostly sunny. Mostly light winds.
18. Above normal temperatures. Partly cloudy. Showers 1:26 p.m. to 1:32 p.m. Moderate winds. Gustly south winds in late morning, early afternoon.
19. Below normal temperatures. Cloudy. Showers: 2:05 p.m. to 2:30 p.m. Light rain or drizzle 2:30 p.m. continued. Smoke and light fog. Visibility slightly restricted. Mostly light winds.
20. Above normal temperatures. Cloudy. Light rain or drizzle to 7:47 a.m. Light drizzle 7:19 p.m. to 11:35 p.m. Light fog in morning. Visibility restricted. Moderate gusty WSW winds to 72 Kms.
21. Below normal temperatures. Partly cloudy. Moderate gusty NW winds becoming light in the afternoon.
22. Below normal temperatures. Cloudy. Snow or light drizzle 5:45 a.m. to 9:53 a.m., Snow: 10:45 p.m. to 11:10 p.m. Light fog. Visibility restricted in the morning. Mostly light winds.
23. Below normal temperatures. Mostly cloudy. Light winds.
24. Below normal temperatures. Cloudy clearing in afternoon. Light winds.
25. Below normal temperatures. Mostly sunny. Mostly light winds.
26. Above normal temperatures. Cloudy. Showers 7:31 a.m. to 8:35 a.m., 5:18 p.m. to 9:15 p.m. Moderate winds. Gustly SE winds to 54 Kms.
27. Above normal temperatures. Cloudy. Clearing early afternoon. Mostly light winds. Fog patches in the evening.
28. Above normal temperatures. Partly cloudy. Mostly light winds. Heavy fog 6:00 a.m. to 7:46 a.m. Light fog till 11:00 a.m. Visibility restricted.
29. Near normal temperatures. Cloudy. Drizzle: 9:11 a.m. to 9:45 a.m. Light fog in the morning. Mostly light winds. Smoke over the city in the morning.
30. Near normal temperatures. Cloudy, clearing late afternoon. Mostly light winds.
31. Normal temperatures. Cloudy. Light rain: 12:19 p.m. to 12:25 p.m., 2:15 p.m. to 7:14 p.m. Snow 12:19 p.m. to 2:40 p.m., 3:55 p.m. continued. Moderate winds. Gustly NNW winds to 78 Kms. Visibility restricted in snow.

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF OCTOBER 1979 PAGE 3
 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.	4.4	5.0	5.0	5.0	5.0	5.2	5.0	5.0	6.3	9.4	11.9	13.2	13.6	14.5	13.9	13.7	13.6	12.2	9.2	7.7	8.3	8.2	7.6	7.8
2.	7.7	7.5	7.5	6.8	8.4	8.8	9.1	9.0	10.1	11.8	12.3	13.3	15.5	17.8	16.6	18.0	17.5	14.8	13.4	10.3	9.5	9.1	8.0	8.2
3.	8.7	8.7	7.6	6.8	6.8	7.1	7.4	6.4	7.0	7.4	7.7	7.5	6.1	6.2	6.5	7.1	7.3	6.6	6.0	5.2	4.3	3.7	2.8	1.0
4.	0.0	-7	-2.4	-1.1	-1.5	-1.4	-3.0	-2.9	-4	1.5	5.6	8.8	10.8	12.4	14.1	15.4	15.0	14.5	13.3	12.2	11.6	11.7	11.7	11.7
5.	11.8	13.3	10.9	10.1	9.7	8.9	7.4	7.7	8.1	11.7	13.1	13.9	12.3	9.0	4.7	6.1	3.8	4.4	3.6	1.6	1.2	.5	.6	.3
6.	4	5	4	7	1.6	1.1	1.2	7	5	9	2.5	3.0	4.9	7.6	9.5	11.1	11.9	11.5	9.0	7.1	6.6	5.9	6.0	5.6
7.	5.1	4.4	.2	.4	.8	0.0	2.7	1.4	4.3	6.0	7.5	8.7	10.0	11.2	11.0	11.6	10.5	9.6	7.4	5.2	2.8	3.0	1.0	.9
8.	1.2	1.5	1.5	2.0	2.2	2.4	1.9	1.3	2.0	3.7	5.1	6.8	7.9	6.7	5.8	6.5	6.3	5.8	4.8	1.5	1.3	2.5	3.4	3.6
9.	3.1	3.6	1.7	1.3	.3	-1.1	.8	1.8	2.2	3.4	4.7	5.7	5.7	6.6	7.0	7.6	7.0	4.5	.6	.7	.7	1.0	1.2	1.2
10	.6	-1.6	.4	1.4	3.0	3.6	4.0	3.1	3.5	3.5	4.0	5.0	6.0	7.5	8.5	9.0	8.1	7.7	7.0	6.6	5.8	5.2	5.3	5.0
11	4.8	4.8	4.4	4.2	3.6	2.8	2.0	1.6	1.3	2.0	2.5	2.5	1.8	2.3	3.2	2.8	2.0	2	2	1.1	1.1	1.3	1.7	1.7
12	-2.5	-3.5	-3.5	-2.3	-2.3	-1.9	-1.6	-1.4	-1.0	-1.0	-1.2	-5	-3	1.0	2.2	2.8	3.1	2.4	-9	-4.9	-5.2	-6.0	-6.8	-6.4
13	-6.1	-7.4	-7.4	-7.3	-7.2	-7.1	-7.5	-9.9	-5.0	-1.8	.7	1.8	2.7	4.0	4.0	4.8	5.5	5.3	5.0	4.6	4.5	4.4	4.3	3.7
14	4.0	4.9	4.9	5.1	4.5	4.6	4.6	5.1	5.4	7.1	9.1	11.2	13.3	16.2	16.8	18.1	18.6	17.4	13.4	12.8	10.1	9.1	8.4	7.2
15	6.5	5.5	4.7	3.8	3.1	2.9	2.6	2.5	6.0	8.0	11.7	15.8	18.0	20.2	21.0	20.8	20.4	18.4	16.1	15.1	14.4	14.0	13.4	13.1
16	12.2	12.0	10.4	8.9	8.0	8.8	8.3	6.7	5.5	8.6	10.2	10.3	10.8	10.7	11.6	10.3	10.4	8.9	5.4	2.4	2.2	2.4	1.9	1.0
17	.5	0.0	-1.6	-2.5	-2.7	-3.0	-1.4	-2.5	.1	1.1	5.4	7.9	9.6	12.0	12.3	14.0	11.7	11.3	8.9	8.0	7.8	7.1	6.6	7.1
18	6.7	6.1	6.7	7.7	8.3	8.0	8.2	8.3	8.3	9.0	9.3	9.6	10.5	11.7	11.6	12.0	13.5	12.9	10.0	9.0	5.7	5.8	4.8	2.6
19	3.7	0.0	.8	-5	-7.7	-1.7	-2.5	-2.0	-1.0	.9	3.4	4.8	5.9	7.1	7.5	7.4	7.4	7.0	6.5	6.4	6.2	6.1	6.2	6.3
20	6.5	6.8	7.5	7.5	7.8	8.0	8.3	8.7	10.0	9.4	10.1	9.0	9.7	10.2	9.7	9.1	8.1	4.9	4.1	2.5	2.2	2.1	2.0	2.3
21	2.2	2.0	1.0	.3	0.0	.5	.5	1.2	.9	.7	2.0	2.7	4.4	3.6	4.6	4.2	3.7	3.3	2.4	2.1	1.8	1.2	1.2	1.2
22	.8	.8	.5	.4	.3	.3	.2	.3	.3	.5	1.4	2.1	2.7	3.2	3.5	3.6	3.0	1.5	-2.7	-2.3	.7	1.2	1.2	1.3
23	1.1	1.0	.9	.6	.5	0.0	.2	.3	.7	.7	1.8	.8	1.8	2.0	2.7	2.9	2.6	2.4	1.8	1.5	1.3	1.2	1.0	1.0
24	1.3	1.5	1.4	1.1	1.1	1.0	.7	.6	.7	1.2	1.5	1.8	2.7	3.1	3.0	3.7	2.8	2.5	0.0	-1.8	-4.8	-4.3	-4.8	-4.5
25	-6.2	-6.8	-5.0	-5.0	-4.7	-5.0	-5.6	-5.9	-4.9	-2.5	.1	2.0	2.9	4.1	4.6	4.9	5.1	3.3	1.5	2.8	3.2	3.0	1.8	2.1
26	2.2	2.4	2.6	3.0	3.0	3.4	3.2	3.2	2.9	3.2	4.2	5.0	6.0	8.0	9.1	8.9	9.0	8.7	7.5	6.5	4.6	4.5	4.4	4.4
27	3.0	2.0	3.9	4.0	4.1	4.1	5.0	6.0	5.5	6.2	6.3	6.8	7.4	8.2	10.0	10.6	11.0	10.0	8.2	3.6	3.2	2.2	1.5	1.4
28	.4	-1.1	.4	.7	1.1	1.3	1.6	1.9	2.2	2.8	3.7	5.1	7.9	10.0	10.4	10.2	10.5	9.3	9.0	6.0	5.7	4.7	4.0	4.0
29	3.2	-4	-1.1	-2.0	-1.1	-1.6	.2	1.6	2.4	2.8	3.7	4.1	4.9	5.5	5.3	5.5	5.7	4.0	3.4	3.3	2.5	2.8	2.6	2.3
30	2.5	2.5	2.4	2.3	2.4	2.3	2.2	2.3	2.5	2.9	3.2	3.6	4.0	4.6	5.1	6.0	5.5	3.8	1.0	.6	1.8	-1.2	-2	.5
31	.3	.5	.3	.9	1.8	1.9	1.5	1.1	1.0	1.1	1.3	1.1	1.7	1.7	2.0	2.3	2.2	1.9	1.7	1.5	.5	0.0	0.0	0.0

MEAN	2.9	2.5	2.2	2.1	2.1	2.0	2.1	1.9	2.7	3.9	5.3	6.2	7.1	8.0	8.3	8.7	8.5	7.5	5.8	4.4	3.8	3.6	3.2	3.0
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HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF OCTOBER 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.	3.0	4.2	4.2	4.2	4.5	5.4	4.6	4.6	5.7	7.7	8.6	8.6	8.9	9.1	8.5	8.1	8.0	7.9	6.4	5.7	6.0	5.8	5.4	5.3
2.	5.2	5.2	5.1	5.3	5.7	5.9	6.2	6.5	6.7	7.3	7.7	8.2	9.5	11.0	10.8	11.8	11.7	10.4	9.4	9.1	8.9	7.8	6.7	7.0
3.	6.4	6.5	6.1	5.0	5.2	6.0	6.2	5.4	5.8	5.5	5.4	4.5	4.4	4.1	4.0	4.0	3.9	3.8	3.5	3.3	2.6	2.0	1.3	0.0
4.	-8	-1.3	-2.8	-1.7	-2.0	-2.0	-3.2	-3.1	-1.1	-2.2	3.0	5.1	6.1	6.6	7.3	8.0	7.8	7.7	7.1	6.5	5.0	5.7	5.7	5.7
5.	5.8	7.4	6.4	6.0	6.3	6.2	4.8	4.8	5.1	6.8	6.8	7.1	6.0	4.9	3.9	3.1	2.1	1.2	.2	-1.0	-1.0	-1.5	-1.4	-1.6
6.	1.2	1.1	1.2	2.2	2.9	2.4	2.6	2.0	1.0	1.0	0.0	0.0	1.2	2.6	4.0	5.1	5.7	6.5	5.1	3.0	3.4	3.0	3.0	2.7
7.	2.3	1.9	-1.0	-1.5	-1.8	1.0	1.4	.8	3.1	4.2	5.1	5.5	6.0	6.0	5.7	6.0	6.1	5.6	4.8	3.4	1.7	2.0	.2	.2
8.	.4	.8	.8	1.2	1.8	2.0	1.4	.8	1.2	2.1	2.1	2.7	3.3	2.0	1.6	2.1	2.0	1.8	1.4	-1.4	-1.7	1.7	1.8	1.8
9.	1.7	2.0	.9	.5	-2.2	-7.7	.1	1.1	1.5	1.6	1.7	2.2	2.1	2.3	2.5	2.0	2.7	2.2	1.1	-1.3	-1.0	-1.0	4.2	4.0
10	-1.0	-1.9	-1.9	0.0	1.0	1.5	2.2	2.3	2.8	3.2	3.7	4.3	5.5	6.4	6.8	6.7	6.4	6.4	5.7	5.2	4.7	4.2	4.2	4.0
11	4.0	4.0	3.6	3.5	2.7	1.8	1.0	6	0.0	2	0.0	-3	7	5	5	1.4	2.1	2.8	3.3	3.5	3.1	2.7	2.9	3.5
12	-3.4	-4.0	-4.0	-3.2	-3.0	-2.7	-2.8	-2.7	-3.0	-2.8	-2.5	-1.9	-2.0	-1.2	-1.2	-1.5	-1.4	-1.8	-3.0	-5.7	-5.9	-6.6	-7.2	-6.9
13	-6.6	-7.6	-7.6	-7.6	-7.4	-7.4	-7.7	-10.0	-5.5	-2.8	-1.2	-1.0	-1.4	.5	.5	.8	1.1	.9	.8	.7	.9	.9	.9	1.2
14	1.2	1.3	1.4	1.4	1.8	1.8	1.8	2.1	2.1	3.2	4.8	6.1	7.5	9.1	9.2	10.1	10.4	10.0	8.0	7.7	6.6	5.7	4.9	4.3
15	3.9	3.4	2.8	2.3	1.8	1.5	1.4	1.4	3.6	5.0	7.0	9.2	10.0	10.7	11.0	10.8	10.4	9.8	8.9	8.6	8.4	8.3	7.9	7.8
16	7.2	8.2	8.8	7.4	7.4	7.4	6.0	4.5	3.9	6.0	6.8	6.4	5.8	5.2	6.4	5.0	5.0	4.2	3.3	3.5	3.1	2.7	2.9	3.5
17	-5	-7	-2.0	-2.7	-3.1	-3.3	-1.8	-3.1	-1.0	-4	2.7	4.0	4.4	6.0	5.8	6.6	5.2	5.1	3.8	3.3	3.2	2.8	2.6	3.0
18	2.9	2.7	3.0	3.7	4.0	4.0	4.2	4.5	5.0	6.0	6.3	6.8	7.4	8.1	8.2	8.5	9.0	7.5	6.0	5.4	3.3	3.5	3.0	1.4
19	2.0	-7	-2	-1.2	-1.4	-2.2	-2.8	-2.5	-1.6	-1.1	2.0	3.0	3.8	4.8	4.9	5.4	5.8	6.2	5.8	5.6	5.5	5.7	5.9	6.0
20	6.3	6.6	7.3	7.3	7.7	7.8	8.1	8.5	9.8	8.5	8.9	7.0	7.3	7.1	6.6	6.0	5.6	3.6	2.6	1.3	1.5	1.8	1.4	1.8
21	1.6	1.0	2	4	8	1.1	1.2	1.7	1.5	1.4	3	9	2.1	1.6	2.1	1.9	1.5	1.2	1.1	1.1	1.1	1.1	1.1	1.1
22	.3	.3	0.0	-.3	-.3	-.3	-.3	-.2	0.0	.2	1.1	1.4	1.7	1.6	1.6	1.6	1.2	.1	-3.3	-2.6	-1.1	0.0	0.0	-1.1
23	-2	-3	-5	-8	-8	-9	-9	-1.0	-2	-1.1	-1.1	-1.1	-2	-1.1	.1	.4	.1	.1	-1.5	-1.5	-1.5	-4	-4	-5
24	-5	-5	-7	-7	-5	-6	-8	-6	-5	-2	0.0	0.0	.1	.7	.6	1.1	1.8	1.2	-1.2	-2.7	-5.2	-4.5	-5.0	-4.8
25	-6.4	-6.9	-5.3	-5.4	-5.2	-5.5	-6.0	-6.3	-5.4	-3.4	-1.3	-1.2	.1	.9	1.2	1.4	1.4	0.0	-1.2	-1.5	-1.2	-1.4	-1.0	-1.7
26	-6	-5	-5	-2	-1	4	3	4	1.7	1.2	1.8	2.0	2.6	4.0	4.5	4.4	4.6	4.3	3.7	3.2	3.0	2.8	2.7	2.7
27	1.6	1.1	2.7	3.0	3.4	3.5	4.3	4.8	4.6	5.0	4.9	5.2	5.5	6.1	7.3	7.7	8.0	7.6	6.6	3.2	3.0	2.0	1.5	-1.4
28	-5	-1.1	-1.1	1.5	.9	1.0	1.5	1.9	2.1	2.7	3.4	4.4	6.1	7.5	8.0	7.8	7.6	7.0	6.5	4.8	4.5	4.5	3.7	3.0
29	2.4	-7	-1.4	-2.1	-1.3	-1.7	-2	1.3	2.0	2.5	3.3	3.6	4.0	4.3	4.0	4.0	4.1	3.0	2.7	2.5	1.8	1.8	1.6	1.3
30	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.2	1.4	1.4	1.9	2.0	2.3	2.7	3.0	3.5	3.0	2.1	.2	.1	-1.2	-1.5	-1.5	.1
31	0.0	1	0.0	.6	1.2	1.2	1.0	.7	.6	.5	.7	.5	.8	.9	1.0	1.1	1.2	1.0	.9	.6	.1	-1.0	-2	-3
MEAN	1.3	1.0	.9	.8	.9	.9	.9	.8	1.5	2.2	3.0	3.4	3.9	4.4	4.5	4.6	4.5	4.0	3.0	2.2	1.9	1.7	1.4	1.3

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF OCTOBER
 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	23	PEAK HOUR	GUSTS
1	NW 15	NW 19	NW 17	NW 17	NW 19	NW 15	NW 7	NW 11	NW 13	NW 24	NW 30	NW 30	NW 28	NW 30	NW 11	NW 17	NW 13	NW 15	NW 15	NW 15	NW 9	NW 11	NW 13	NW 9	NNE 43	11 CST	
2	SSE 13	S 13	S 13	S 20	S 24	S 24	S 26	S 31	S 35	S 35	S 30	S 31	S 28	S 33	S 24	S 11	S 22	S 31	S 28	S 37	S 13	S 24	S 15	S 15	NNW 65	00 CST	
3	NNW 35	NNW 35	NNW 17	NNW 24	NNW 22	NNW 20	NNW 31	NNW 31	NNW 33	NNW 39	NNW 39	NNW 35	NNW 44	NNW 43	NNW 46	NNW 43	NNW 46	NNW 41	NNW 37	NNW 30	NNW 28	NNW 30	NNW 30	NNW 17	N 70	16 CST	
4	NW 15	NW 17	NW 9	NW 13	NW 13	NW 9	NW 6	NW 6	NW 6	NW 9	NW 15	NW 19	NW 22	NW 26	NW 30	NW 31	NW 37	NW 31	NW 41	NW 37	NW 37	NW 41	NW 37	NW 37	SSW 65	23 CST	
5	SW 20	SW 24	SW 15	SW 20	SW 22	SW 17	SW 22	SW 48	SW 44	SW 48	SW 44	SW 48	SW 44	SW 44	SW 39	SW 48	SW 43	SW 44	SW 43	SW 35	SW 28	SW 31	SW 26	SW 26	NNW 87	12 CST	
6	NNW 24	NNW 17	NNW 6	NNW 7	NNW 2	NNW 2	NNW 2	NNW 9	NNW 13	NNW 19	NNW 24	NNW 26	NNW 24	NNW 24	NNW 20	NNW 15	NNW 11	NNW 0	NNW 0	NNW 11	NNW 11	NNW 13	NNW 13	NNW 15	SW 41	13 CST	
7	NNW 15	NNW 17	NNW 0	NNW 4	NNW 9	NNW 11	NNW 13	NNW 13	NNW 7	NNW 7	NNW 22	NNW 31	NNW 33	NNW 33	NNW 26	NNW 28	NNW 22	NNW 24	NNW 15	NNW 7	NNW 0	NNW 4	NNW 6	NNW 2	NNW 50	13 CST	
8	NNE 2	NNE 0	NNE 0	NNE 7	NNE 13	NNE 13	NNE 9	NNE 37	NNE 43	NNE 41	NNE 46	NNE 46	NNE 41	NNE 46	NNE 37	NNE 35	NNE 30	NNE 20	NNE 11	NNE 9	NNE 7	NNE 13	NNE 15	NNE 15	N 67	13 CST	
9	NW 9	NW 17	NW 7	NW 15	NW 13	NW 11	NW 9	NW 13	NW 13	NW 24	NW 31	NW 28	NW 28	NW 26	NW 30	NW 26	NW 22	NW 17	NW 2	NW 0	NW 6	NW 11	NW 19	NW 17	NW 48	13 CST	
10	SSW 13	SSW 17	SSW 13	SSW 17	SSW 17	SSW 17	SSW 13	SSW 15	SSW 15	SSW 15	SSW 13	SSW 6	SSW 6	SSW 0	SSW 6	SSW 19	SSW 17	SSW 4	SSW 2	SSW 9	SSW 7	SSW 11	SSW 9	SSW 13	SSW 33	05 CST	
11	N 15	N 17	N 15	N 20	N 20	N 24	N 26	N 28	N 31	N 33	N 33	N 33	N 33	N 33	N 31	N 33	N 28	N 22	N 25	N 20	N 24	N 28	N 20	N 20	NNE 52	14 CST	
12	N 19	N 26	N 22	N 30	N 37	N 37	N 41	N 37	N 33	N 33	N 33	N 33	N 37	N 33	N 28	N 24	N 22	N 20	N 13	N 13	N 13	N 9	N 11	N 13	N 59	05 CST	
13	NW 15	NW 11	NW 7	NW 15	NW 6	NW 11	NW 0	NW 0	NW 13	NW 15	NW 15	NW 17	NW 17	NW 19	NW 19	NW 17	NW 17	NW 15	NW 17	NW 17	NW 17	NW 17	NW 22	NW 22	S 37	23 CST	
14	S 20	S 26	S 26	S 26	S 28	S 28	S 22	S 20	S 20	S 19	S 17	S 13	S 4	S 4	S 4	S 6	S 4	S 0	SSE 4	SSE 6	SSE 7	SSE 11	SSE 7	SSE 9	SSW 46	03 CST	
15	SSE 9	SSE 9	SSE 7	SSE 7	SSE 9	SSE 9	SSE 9	SSE 15	SSE 13	SSE 15	SSE 22	SSE 20	SSE 20	SSE 28	SSE 28	SSE 28	SSE 22	SSE 20	SSE 19	SSE 22	SSE 19	SSE 20	SSE 19	SSE 22	S 46	15 CST	
16	NW 15	NW 20	NW 33	NW 30	NW 28	NW 28	NW 24	NW 11	NW 22	NW 31	NW 30	NW 30	NW 30	NW 33	NW 26	NW 37	NW 26	NW 22	NW 9	NW 9	NW 7	NW 2	NW 4	NW 4	NNW 59	04 CST	

