



Fisheries and Environment Canada
Pêches et Environnement Canada
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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS OCTOBER / OCTOBRE

1978

AT/À WINNIPEG INTERNATIONAL AIRPORT / A L'AEROPORT INTERN. DE WINNIPEG.

LAT: 49° 54N		LONG: 97° 14W		ELEVATION: ALTITUDE: 239.6		METRES (ASL) MÉTRES (NMM) 239.6		STANDARD TIME USED: HEURE NORMALE UTILISÉE: CENTRAL											
DATE	TEMPERATURE TEMPERATURE			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. 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	17.9	8.6	13.3	4.7	8.3	74	52	Tr.		Tr.		22.4	S	S 39	0.2				
2	14.8	7.1	11.0	7.0	6.0	93	58	1.0		1.0		17.9	WNW	W 26*	2.7				
3	9.0	6.1	7.6	10.4	2.6	95	80	2.7		2.7		19.6	NNW	NNW 30	0.0				
4	10.0	5.3	7.7	10.3	2.7	95	72	0.4		0.4		8.8	NNW	N 19	0.0				
5	10.1	4.9	7.5	10.5	2.5	92	67	0.8		0.8		22.5	NNW	NNW 33*	0.2				
6	8.4	-1.0	3.7	14.3	0.0	94	58	0.2		0.2		13.1	NNE, NW	NNE 26	0.4				
7	14.4	-2.8	5.8	12.2	0.8	92	43					14.5	SSW	SSW 28	8.7				
8	14.0	2.9	8.5	9.5	3.5	84	51					21.8	S	S 39	1.8				
9	17.1	0.8	9.0	9.0	4.0	97	45					9.3	NW	NW 17*	10.3				
10	22.4	3.0	12.7	5.3	7.7	94	31					23.7	SSW	SSW 37*	9.7				
11	15.0	2.2	8.6	9.4	3.6	87	34	0.2		0.2		31.6	WNW	WNW 54	5.0				
12	5.0	-0.4	2.3	15.7	0.0	90	52	0.3		0.3		18.8	NNW	NNW 28*	0.1				
13	6.1	0.3	3.2	14.8	0.0	85	59	0.2	Tr.	0.2		5.9	S, W	S 13	0.6				
14	6.8	-0.6	3.1	14.9	0.0	90	73	1.8		1.8		13.0	S	SSW 22*	0.0				
15	7.4	-2.8	2.3	15.7	0.0	96	66	0.6		0.6		18.6	NNW	NNW 30	3.1				
16	8.8	-4.7	2.1	15.9	0.0	97	56					21.5	S	SSW 41*	4.6				
17	10.8	-2.4	4.2	13.8	0.0	90	53					20.9	N	NNE 37	8.9				
18	13.0	-4.2	4.4	13.6	0.0	89	34					19.5	WSW	W 33	6.2				
19	22.0	5.0	13.5	4.5	8.5	81	36					17.8	WNW	SW 26	9.5				
20	20.8	6.8	13.8	4.2	8.8	80	39					10.2	WSW	SW 20*	8.9				
21	11.7	1.2	6.5	11.5	1.5	91	61	Tr.		Tr.		22.1	NW	NW 48*	3.8				
22	6.7	-1.2	2.8	15.2	0.0	93	40	Tr.		Tr.		11.8	NW	NW 24	5.8				
23	11.3	-3.0	4.2	13.8	0.0	73	32					27.8	SSW	SSW 59	2.5				
24	11.8	3.4	7.6	10.4	2.6	91	45	0.6		0.6		18.2	S, SSW	N 43	0.0				
25	7.0	1.5	4.3	13.7	0.0	90	60	Tr.		Tr.		18.6	NNW	NNW 35	2.2				
26	8.8	-1.1	3.9	14.1	0.0	95	55	0.6		0.6		14.4	W	NW 37	1.4				
27	4.9	-3.7	0.6	17.4	0.0	97	75	Tr.	0.8	0.8		10.3	NNW	NW 37	0.2				
28	8.8	-5.6	1.6	16.4	0.0	91	58					10.7	SSE	SSW 24	5.5				
29	11.3	2.8	7.1	10.9	2.1	78	46	Tr.		Tr.		25.2	S	S 41	3.7				
30	8.3	0.5	4.4	13.6	0.0	86	39					22.5	WNW	NW 37*	5.0				
31	14.5	-0.3	7.1	10.9	2.1	69	25					18.4	WSW	WSW 22*	6.5				
MEAN MOYENNE	11.6	0.9	6.3	363.6	67.3	89	51	TOTAL	TOTAL	TOTAL	TOTAL	17.8	Pre. NNE, NNW DOMINANTE	MAXIMUM SSW 59	TOTAL 117.5				
NORMAL NORMALE	11.9	1.1	6.6	355.7	93.1			0.5	29.2	5.6	34.8	20.3	SOUTH		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	363.6	324.3	355.7	TOTAL FOR MONTH TOTAL DU MOIS	67.3	88.8	93.1	13	3	1	0	0	1	0	0	0	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	591.4	619.8	588.7	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1846.9	1916.1	1785.3												

UDC 561.508.1 ()

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

CORRECTION: For September normal precipitation 14 52.6 not 87.6

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By Hrs. NNW, by km. S

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS				OCTOBER / OCTOBRE			19 78						
Temperature/Température Précipitation/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		22.4	10	23.3	25	23.3	30.0	1	1922	13.3	3	1969	107		
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		-5.6	28	-4.9	22	-4.9	-1.7	8	1927	-20.6	26	1936	107		
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		6.3		7.5		6.6	12.8		1963	0.3		1887	107		
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		9.4		30.2		29.2	142.0		1898	.3		1933	107		
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE		0.8		Tr.		5.6	38.6		1919 1949	N11	SVRL		107		
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		10.2		30.2		34.8	144.0		1898	2.5		1976	107		
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		13		7		8	16		1898	2		1963	95		
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		2.7	3	15.0	30		74.4	10	1949				107		
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE		0.8	27	Tr.	5		24.6	30	1971				107		
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		2.7	3*	15.0	30		74.4	10	1949				107		
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:															
5 MINUTES		0.5	3	1.0	30		3.3	11	1960				19		
10 MINUTES		1.0	3	1.8	30		3.8	11	1960				19		
15 MINUTES		1.0	3	2.5	30		4.6	15	1968				19		
30 MINUTES		1.2	3	3.6	30		7.4	15	1968				19		
60 MINUTES		1.2	3	7.1	30		10.2	15	1968				19		
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		3.7	2-3	15.0	30		74.4	10	1949				107		
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		17.8		18.1		20.3	25.7		1949	12.7		1925	58		
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		SSW59	23	NW 44	5	58	NW 85	10	1949				40		
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		SSW82	23	NW 63	17	84	N 114	15	1952				40		
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		117.5		203.9		158.4	235.9		1963	72.4		1917	79		
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.34		98.59		98.51	99.11		1957	98.20		1973 1968	40		
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.97	22	100.25	6	100.26	100.92	6	1954				40		
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.14	24	96.86	16	96.47				93.87	10	1949	40		
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES												TEN / 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				
1969	13.3	-8.3	2.5	21.3	6.9	27.2	18.2	SE 42	79.3	477.2	21.1				
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, SSE51	167.8	371.1	65.0				
1975	26.6	-6.1	6.9	36.7	2.8	38.3	18.3	WNW50	137.3	345.7	95.7				
1976	28.1	-16.6	2.9	2.5	Tr.	2.5	18.3	NNW54	130.0	470.1	56.5				
1977	23.3	-4.9	7.5	30.2	Tr.	30.2	18.1	NW 44	203.9	324.3	88.8				
1978	22.4	-5.6	6.3	9.4	0.8	10.2	17.8	SSW59	117.5	363.6	67.3				

* 3.7 - 2-3 October

October weather was drier, but cloudier than normal. Precipitation came on 13 days and measured 9.4 mm of rain and 0.8 CM of snow, which is well below normal. Cloud cover kept total sunshine to 41 hours less than usual during October, but temperatures averaged near normal. Three warm days put temperatures over 20 degrees on October 10, October 19 and October 20. The maximum was recorded October 10 at 22.4 and the minimum October 28 at -5.6 degrees.

DAILY WEATHER SUMMARY FOR OCTOBER 1978

AT WINNIPEG, MANITOBA

1. Above normal temperatures. Cloudy. Light rain 3:16 p.m. to 4:45 p.m. Moderate winds. Gusty south winds.
2. Above normal temperatures. Mostly cloudy. Rain 6:35 p.m. continued. Mostly light winds but gusty west winds in the morning and afternoon.
3. Below normal temperatures. Cloudy. Light rain or drizzle to 12:35 p.m. Light fog in morning. Light winds but gusty NNW winds in the morning.
4. Below normal temperatures. Cloudy. Showers 2:09 p.m. to 6:20 p.m. Mostly light winds.
5. Below normal temperatures. Cloudy. Rain or showers 4:49 a.m. to 4:26 p.m., 7:21 p.m. to 9:10 p.m. Moderate winds, gusty NNW winds in the afternoon.
6. Below normal temperatures. Cloudy. Showers 10:40 a.m. to 1:34 p.m. Light winds but gusty north wind in the afternoon.
7. Below normal temperatures. Mostly sunny. Mostly light winds but gusty SW winds in the afternoon.
8. Above normal temperatures. Cloudy. Moderate winds. Gusty south winds in the afternoon.
9. Above normal temperatures. Sunny. Light winds.
10. Above normal temperatures. Mostly sunny. Moderate winds. Gusty SSW winds in the afternoon and evening.
11. Above normal temperatures. Partly cloudy. Showers 5:09 p.m. to 8:50 p.m. Strong gusty WNW winds in the afternoon and evening.
12. Below normal temperatures. Cloudy. Showers 7:20 a.m. to 5:36 p.m. Mostly light winds but gusty NNW in the afternoon.
13. Below normal temperatures. Cloudy. Light snow 2:25 to 3:45 a.m. Showers 3:20 p.m. to 4:15 p.m. Light winds.
14. Below normal temperatures. Cloudy. Showers 2:33 p.m. to 7:45 p.m. Mostly light winds, but gusty SSW wind in the afternoon.
15. Below normal temperatures. Mostly cloudy. Light rain or showers 2:25 a.m. to 7:38 a.m. Mostly light winds but gusty NNW winds early morning.
16. Below normal temperatures. Partly cloudy. Light fog 00:40 to 2:35 a.m., 7:40 a.m. to 8:10 a.m. Heavy fog 6:34 a.m. to 7:40 a.m. Visibility reduced. Moderate winds. Gusty SSW winds afternoon and evening.
17. Below normal temperatures. Mostly sunny. Moderate winds. Gusty NNE winds in the morning and afternoon.
18. Below normal temperatures. Partly cloudy. Mostly light winds but gusty west winds in the afternoon and evening.
19. Mild. Sunny. Mostly light winds but gusty WSW wind in the afternoon.
20. Mild. Sunny. Light winds.
21. Above normal temperatures. Mostly cloudy. Light rain 9:40 p.m. to 10:55 p.m. Moderate winds. Gusty NW winds in the afternoon and early evening.
22. Below normal temperatures. Partly cloudy. Drizzle 03:25 a.m. to 4:16 a.m. Light winds except gusty north wind near noon.
23. Above normal temperatures. Cloudy clearing in evening. Moderate winds. Strong gusty SSW winds in afternoon and evening.
24. Above normal temperatures. Cloudy. Rain 5:49 p.m. continued. Mostly light winds but gusty north in the evening.
25. Above normal temperatures. Mostly cloudy. Light rain to 01:11 a.m. Showers 1:07 p.m. to 6:15 p.m. Rain 8:47 p.m. to 10:20 p.m. Mostly light winds but gusty NNW wind in the afternoon.
26. Above normal temperatures. Mostly cloudy. Light showers 00:57 a.m. to 01:10 a.m., 10:40 p.m. to 11:04 p.m. Light winds except gusty NW wind in late evening.
27. Below normal temperatures. Cloudy. Light rain 11:45 a.m. to 12:10 p.m., 7:20 p.m. to 8:10 p.m. Snow 12:05 p.m. to 1:20 p.m. Mostly light winds.
28. Normal temperatures. Partly cloudy. Mostly light winds.
29. Mild. Mostly cloudy. Light rain 10:50 p.m. to 11:45 p.m. Moderate winds. Gusty south winds in the morning and afternoon.
30. Above normal temperatures. Cloudy, clearing early afternoon. Moderate winds. Gusty WNW winds in morning.
31. Mild. Mostly sunny. Mostly light winds.

OCTOBER 1978

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF

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.	10.1	9.8	9.4	9.3	9.5	9.7	10.0	10.6	11.9	12.9	14.2	15.3	15.8	16.6	17.6	17.2	16.8	16.1	15.5	14.5	14.4	14.0	13.1	12.5
2.	11.4	9.9	8.7	7.9	7.3	8.3	8.9	10.1	11.9	12.8	14.0	14.2	14.2	14.2	14.4	14.2	14.2	13.9	13.2	11.7	10.2	9.3	8.7	8.5
3.	8.0	7.9	7.5	7.1	6.8	6.6	6.3	6.4	6.5	6.8	6.8	7.0	7.5	8.0	8.6	9.0	8.7	8.7	8.4	8.1	7.4	7.1	6.8	6.9
4.	6.9	6.8	6.6	6.4	6.3	6.1	5.1	5.9	6.5	7.2	7.8	8.3	8.9	9.4	9.7	9.0	8.6	8.8	8.1	7.4	7.0	6.4	6.2	5.9
5.	5.3	5.6	5.5	5.6	5.7	5.6	5.2	5.9	6.2	6.6	7.4	7.8	7.9	8.4	9.3	8.5	9.2	8.5	5.8	7.5	7.0	6.4	6.3	5.4
6.	5.3	5.0	3.7	3.0	2.6	1.7	2.3	3.1	5.1	6.2	6.8	7.1	6.4	8.1	7.5	7.3	6.9	6.5	5.2	4.8	1.9	.2	.2	-0.5
7.	-1.0	-1.9	-2.0	-1.8	-2.5	-1.2	-0.5	.2	2.0	4.5	7.2	8.8	9.8	11.0	13.0	14.1	14.1	13.5	12.0	10.4	8.9	8.5	7.8	6.9
8.	6.1	5.5	5.4	4.3	3.0	3.2	3.0	3.3	4.8	6.8	8.5	9.4	11.2	11.0	13.3	13.4	13.9	13.5	13.1	10.5	8.3	8.6	7.8	6.4
9.	6.3	5.8	6.4	4.5	3.8	3.2	1.4	1.0	3.3	6.6	10.9	13.4	14.5	15.4	16.3	16.5	16.4	15.2	12.2	9.2	5.4	5.6	5.0	4.5
10	4.3	4.8	5.8	4.4	3.5	4.8	3.0	4.0	6.3	9.3	13.3	17.8	18.9	19.6	20.7	21.8	21.4	21.0	19.1	17.4	16.8	16.5	16.1	15.4
11	14.2	14.0	12.8	13.6	12.4	10.8	9.6	9.2	8.6	11.1	12.9	13.1	12.8	13.0	13.0	11.8	11.2	11.1	10.1	9.4	7.1	6.6	3.6	2.5
12	2.2	2.2	2.2	1.8	2.2	2.2	1.8	1.8	2.4	2.3	3.2	3.5	3.4	4.0	4.3	5.0	4.6	4.1	3.5	3.1	2.4	2.1	.1	1.1
13	.5	.5	.6	.8	.8	.6	.4	.8	1.2	1.8	3.1	3.9	4.9	5.4	5.9	5.7	5.1	4.3	4.4	4.1	4.4	4.4	4.0	3.6
14	3.0	2.8	3.0	1.6	.9	-.4	.5	.8	1.4	2.0	3.1	4.0	5.0	6.0	6.8	5.8	6.0	5.0	4.7	5.0	5.0	5.4	6.0	4.2
15	3.8	5.3	5.2	5.4	4.5	4.3	4.6	4.5	3.8	3.8	4.9	4.8	6.0	6.5	6.5	5.7	5.6	5.0	4.0	1.2	.4	.8	-2	-2.0
16	-2.1	-4.1	-3.7	-2.2	-2.5	-4.4	-4.0	-3.7	-2.0	-.8	2.6	4.5	6.7	7.2	7.7	8.3	8.8	8.7	8.0	7.3	7.3	7.8	7.8	6.7
17	6.3	5.8	5.1	4.1	2.9	1.6	.4	-1.7	.1	5.0	7.6	8.5	9.3	10.2	9.0	8.5	7.8	6.5	5.8	5.2	4.8	4.5	3.2	2.5
18	2.6	-4	-1.3	-2.8	-2.7	-2.1	-2.8	-3.3	-1.5	.6	4.0	6.5	7.7	9.0	10.5	12.1	12.6	11.7	11.5	12.0	12.2	11.5	11.0	10.2
19	10.1	10.0	8.5	8.3	7.8	7.2	6.6	5.3	6.1	8.9	12.1	15.4	17.4	19.6	20.7	21.4	21.4	20.0	18.8	16.8	15.8	15.2	14.3	14.3
20	13.5	12.0	10.9	10.6	9.8	10.9	9.8	7.0	8.0	10.2	13.5	16.5	17.4	19.0	19.8	20.2	19.7	15.9	14.1	10.9	10.5	9.3	8.1	7.6
21	7.4	5.4	5.4	4.1	2.1	3.0	3.4	3.8	5.8	6.6	6.0	8.2	10.9	10.9	10.2	9.0	7.4	6.3	5.6	4.4	2.8	3.4	2.7	2.4
22	1.2	1.2	.9	.4	.5	.7	.7	1.0	1.5	2.7	3.7	4.9	6.0	5.4	6.2	5.8	5.6	4.2	2.0	1.0	-1.0	-.3	-.5	-.8
23	-1.2	-2.6	-2.5	-2.7	-2.6	-2.5	-2.7	-1.6	-.5	1.2	3.6	6.4	8.9	10.4	11.3	10.7	10.7	10.5	9.1	8.1	8.0	7.8	8.2	7.6
24	7.0	6.8	6.8	6.3	6.5	5.7	5.2	4.2	4.2	6.0	7.8	10.0	10.8	11.8	11.2	10.5	8.7	7.0	7.3	6.0	4.0	4.0	4.1	3.8
25	3.4	3.4	3.1	2.0	3.3	3.0	3.0	2.6	3.0	3.5	5.5	5.3	7.0	6.0	5.0	5.0	4.1	3.9	3.6	2.7	1.8	2.3	2.2	2.0
26	2.4	2.4	2.1	1.2	1.1	.0	-1.0	-.9	-.5	1.0	1.6	2.6	3.5	5.7	7.1	8.2	8.5	8.2	7.2	6.1	7.0	7.5	6.1	5.4
27	4.9	3.8	3.8	3.6	1.6	-.1	-.8	-.6	.5	1.4	1.9	2.8	2.8	1.1	2.2	2.5	2.6	2.0	1.3	-1.0	-2.0	-3.2	-1.6	-1.6
28	-1.2	-2.0	-3.0	-3.1	-3.7	-4.4	-5.2	-4.7	-3.6	-2.6	-.2	3.3	5.0	6.5	7.3	7.5	7.2	6.7	6.0	6.0	6.4	5.8	5.8	5.9
29	3.3	4.6	4.1	3.6	3.3	3.2	3.6	3.8	4.4	4.4	6.3	8.1	9.1	9.6	10.5	11.1	10.2	9.5	9.0	8.9	8.6	7.9	7.3	7.6
30	7.0	6.9	6.2	4.6	4.6	4.8	5.0	5.0	5.3	5.3	5.3	5.9	5.6	6.4	7.5	7.6	7.3	5.7	3.6	2.5	1.8	1.4	1.4	.6
31	1.4	.9	.6	1.0	.5	.6	.0	.0	.4	2.0	5.2	8.7	11.0	13.1	13.2	13.0	12.5	10.5	9.2	9.2	8.8	6.8	5.5	4.2
MEAN	4.9	4.5	4.1	3.6	3.2	3.0	2.7	2.7	3.6	5.0	6.8	8.3	9.2	10.0	10.5	10.5	10.3	9.4	8.4	7.4	6.6	6.3	5.7	5.2

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF OCTOBER 1978

ALL TEMPERATURES IN DEGREES CELSIUS

DATE	00.	01.	02.	03.	04.	05.	06.	07.	08.	09.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
1.	4.7	7.3	7.2	7.2	7.4	7.5	7.7	8.2	9.0	9.5	10.4	11.0	11.0	11.9	12.2	11.8	11.9	11.7	11.9	11.4	11.2	10.9	10.4	9.4
2.	8.6	7.7	7.0	6.7	6.3	6.3	7.0	7.4	8.2	9.1	9.5	10.3	10.2	10.1	10.1	10.2	10.1	9.8	9.5	9.8	9.7	8.2	7.9	7.5
3.	7.5	7.5	7.2	6.7	6.4	5.9	5.9	5.9	5.8	6.0	6.0	6.4	6.6	7.0	7.1	7.4	7.3	7.2	7.0	7.0	6.9	6.5	6.2	6.4
4.	6.2	6.0	5.9	5.9	5.8	5.7	5.7	5.6	6.2	6.5	6.8	7.0	7.4	7.4	7.4	7.2	7.4	7.3	7.5	6.7	6.6	6.5	5.6	5.4
5.	4.8	5.0	4.9	4.8	4.8	4.8	4.9	5.2	5.3	5.5	6.3	6.2	6.5	6.6	6.8	7.5	6.5	6.7	4.8	6.0	6.0	5.8	5.5	4.6
6.	4.6	4.2	3.1	2.5	2.2	1.3	1.9	2.8	4.5	5.5	5.2	5.6	5.0	5.5	5.3	5.1	4.9	3.4	2.9	2.2	.6	-.6	-.8	-1.5
7.	-1.8	-2.3	-2.8	-2.3	-2.8	-1.6	-1.2	-.8	.0	2.1	4.5	5.6	5.6	6.4	7.8	8.3	8.3	8.2	7.5	6.4	5.6	5.5	5.0	4.3
8.	3.9	3.6	3.6	2.8	1.9	2.0	1.8	2.1	3.0	4.3	5.5	6.1	7.3	7.8	8.5	8.8	9.0	9.3	9.4	7.8	6.6	6.7	6.2	5.2
9.	5.2	4.8	5.0	3.8	3.3	2.8	1.2	.8	3.0	5.6	9.0	9.9	10.0	10.4	11.0	10.8	10.2	10.0	8.6	6.9	4.4	4.8	4.5	4.1
10	3.8	4.0	5.0	3.8	3.1	4.0	2.6	3.4	5.1	7.3	9.6	11.4	12.3	12.5	12.8	12.9	12.0	12.3	11.6	11.0	10.8	10.7	10.5	10.0
11	9.2	9.0	8.6	8.6	9.2	8.5	8.0	7.8	7.3	8.0	8.0	7.5	6.6	6.2	6.4	6.0	5.9	6.0	5.8	5.6	5.6	5.7	1.9	1.4
12	1.2	1.2	1.2	1.0	1.4	1.7	1.3	1.3	1.6	1.7	2.2	1.8	1.1	1.1	1.1	1.9	1.3	.9	.4	.0	-.3	-.6	-1.7	-1.3
13	-1.5	-1.2	-1.3	-1.1	-1.3	-1.0	-.7	-.4	-.1	.0	1.1	1.7	2.4	2.4	2.9	3.1	3.8	3.3	3.4	3.1	3.3	2.8	2.4	2.0
14	1.4	1.3	1.3	.3	-.5	-1.0	-.2	.1	.8	1.2	2.3	3.0	3.8	4.4	4.9	4.2	4.1	3.8	4.0	3.9	4.3	4.0	4.4	3.2
15	2.8	3.9	4.0	4.0	4.0	3.7	3.9	4.0	3.9	2.9	3.4	3.4	4.3	4.5	3.9	3.3	3.5	2.8	2.2	.3	.0	.4	-1.2	-2.2
16	-2.2	-4.2	-3.8	-2.3	-2.6	-4.5	-4.1	-3.8	-2.1	-.9	2.0	3.1	4.4	3.8	4.8	4.8	5.1	5.1	4.8	4.3	4.0	4.2	4.2	3.5
17	3.2	2.9	2.5	1.9	1.1	.3	-.6	-2.3	-.5	3.5	5.0	5.3	5.5	6.0	5.2	4.8	4.2	3.2	2.5	2.2	1.8	1.8	1.2	.5
18	.9	-1.7	-2.5	-3.7	-3.5	-2.8	-3.2	-3.9	-2.5	-.8	1.7	3.5	4.1	4.0	-4.8	5.8	6.0	6.0	5.5	6.0	7.0	7.0	7.0	6.7
19	6.8	6.8	6.1	5.9	5.6	5.2	4.9	4.0	4.6	6.6	9.1	10.7	11.6	12.8	13.0	13.3	12.8	12.5	11.8	11.2	10.8	10.4	9.8	9.8
20	9.4	8.5	7.9	7.5	6.8	7.3	6.3	4.9	5.8	7.0	9.0	10.8	11.1	11.9	12.2	12.4	12.7	10.9	9.7	8.0	7.9	7.1	6.2	6.1
21	5.9	4.5	4.6	3.4	1.6	2.4	2.7	2.8	4.1	5.0	5.3	7.1	8.5	7.8	6.9	5.9	5.2	4.2	3.7	2.5	1.3	1.9	1.9	1.3
22	.5	.2	.1	-.2	.2	.4	.3	.5	.8	1.6	1.8	1.7	1.6	1.3	1.6	1.6	1.3	-.1	-1.1	-1.8	-2.8	-2.2	-2.4	-2.9
23	-3.2	-4.3	-4.3	-4.2	-4.0	-4.0	-4.0	-3.0	-2.2	-1.1	.4	2.2	3.7	4.1	4.8	4.5	4.5	4.5	3.6	3.0	2.9	2.9	3.1	3.0
24	2.7	2.6	2.9	2.8	3.0	2.7	2.3	1.7	1.9	3.0	4.5	5.8	6.5	7.0	6.0	6.5	5.4	4.5	6.1	5.3	3.5	3.3	3.2	2.9
25	2.6	2.4	2.1	1.3	2.3	2.1	2.0	1.8	2.0	2.4	3.5	3.0	4.0	3.0	3.0	3.2	2.6	2.6	2.5	2.0	1.3	1.6	1.6	1.3
26	1.6	1.9	1.7	.9	.8	-.5	-1.5	-1.1	-.9	.0	1.0	1.9	2.6	4.0	4.6	4.6	4.8	4.8	4.2	3.6	4.0	4.3	3.8	3.8
27	3.6	2.5	2.4	.8	.8	-.6	-1.2	-1.0	.0	.8	1.1	1.5	1.2	.8	1.7	1.6	1.8	1.4	.8	-1.5	-2.3	-3.2	-1.8	-1.8
28	-1.6	-2.4	-3.6	-3.7	-4.0	-4.6	-5.4	-5.0	-4.0	-3.2	-1.4	1.1	2.2	3.5	4.0	4.3	4.2	3.9	3.5	3.6	3.7	3.3	3.2	3.2
29	1.6	2.3	2.2	2.0	1.7	1.8	2.1	2.0	2.0	2.2	3.5	4.5	5.1	5.5	5.9	6.1	5.5	5.3	5.1	5.1	5.1	4.8	4.5	4.5
30	4.3	4.4	4.6	3.6	3.6	3.9	3.6	3.6	3.4	3.4	2.6	2.8	2.6	2.4	3.3	2.8	2.4	1.4	.0	-.7	-1.3	-1.6	-1.6	-1.8
31	-1.4	-1.8	-1.8	-1.4	-1.7	-1.6	-2.0	-1.8	-1.6	-.4	1.6	4.8	5.1	5.9	5.5	5.5	5.2	4.0	3.2	3.2	3.2	1.8	1.0	.2
MEAN	3.2	2.8	2.6	2.3	2.0	1.9	1.7	1.7	2.4	3.4	4.5	5.4	5.8	6.1	6.0	6.3	6.1	5.7	5.2	4.6	4.2	4.0	3.6	3.2

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INTERNATIONAL AIRPORT FOR THE MONTH OF OCTOBER

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	S 13	SSW 11	SSW 15	S 13	S 20	S 19	S 19	S 19	S 28	S 30	S 39	S 35	S 31	S 24	SSW 33	SSW 24	S 30	S 24	S 24	SSW 17	SSW 22	SSW 20	SSW 13	W 13	S 52	11 CST	
2	W 20	W 7	W 9	SW 9	WSW 11	WSW 15	W 19	W 20	W 26	W 26	W 26	W 24	W 26	W 24	W 22	W 26	W 20	W 24	W 17	W 19	W 9	W 11	W 6	W 13	W 41	10 CST	
3	WNW 19	WNW 19	WNW 17	NNW 22	NNW 20	NNW 20	NNW 20	NNW 19	NNW 19	NNW 28	NNW 26	NNW 30	NNW 26	NNW 24	NNW 28	NNW 22	NNW 22	NNW 15	NNW 19	NNW 15	NNW 11	NNW 7	NNW 7	NNW 7	NNW 43	11 CST	
4	WNW 6	WNW 6	WNW 7	NNW 6	NNW 4	NNW 2	NNW 4	NNW 0	NNW 0	NNW 6	NNW 4	NNW 7	NNW 9	NNW 15	NNW 15	NNW 15	NNW 19	NNW 13	NNW 13	NNW 11	NNW 15	NNW 17	NNW 9	NNW 9	NNW 32	15 CST	
5	NNW 13	NNW 15	NNW 17	NNW 22	NNW 20	NNW 20	NNW 22	NNW 24	NNW 26	NNW 31	NNW 28	NNW 31	NNW 33	NNW 33	NNW 33	NNW 33	NNW 26	NNW 13	NNW 7	NNW 22	NNW 20	NNW 19	NNW 17	NNW 15	NNW 44	13 CST	
6	NNW 9	NNW 15	NNW 9	NNW 13	NNW 17	NNW 13	NNW 11	NNW 17	NNW 15	NNW 17	NNW 15	NNW 17	NNW 15	NNW 13	NNW 19	NNW 26	NNW 17	NNW 15	NNW 9	NNW 11	NNW 6	NNW 7	NNW 6	NNW 7	NNW 39	12 CST	
7	NNW 6	NNW 4	NNW 4	NNW 4	NNW 4	NNW 0	NNW 6	NNW 9	NNW 13	NNW 15	NNW 15	NNW 24	NNW 20	NNW 26	NNW 28	NNW 26	NNW 19	NNW 17	NNW 15	NNW 19	NNW 20	NNW 19	NNW 17	NNW 17	NNW 44	13 CST	
8	SSW 17	SSW 20	SSW 24	SSW 20	SSW 22	SSW 22	SSW 22	SSW 26	SSW 31	SSW 28	SSW 33	SSW 31	SSW 33	SSW 39	SSW 33	SSW 33	SSW 26	SSW 19	SSW 7	SSW 6	SSW 11	SSW 7	SSW 11	SSW 2	SSW 54	12 CST	
9	NNW 9	NNW 17	NNW 17	NNW 9	NNW 13	NNW 15	NNW 9	NNW 6	NNW 7	NNW 6	NNW 7	NNW 7	NNW 11	NNW 13	NNW 15	NNW 15	NNW 13	NNW 11	NNW 11	NNW 2	NNW 6	NNW 4	NNW 0	NNW 0	NNW 0	NNW 44	13 CST
10	SW 9	SSW 6	SSW 13	SSW 11	SSW 13	SSW 19	SSW 19	SSW 19	SSW 19	SSW 19	SSW 24	SSW 24	SSW 33	SSW 37	SSW 33	SSW 37	SSW 35	SSW 35	SSW 28	SSW 33	SSW 31	SSW 31	SSW 24	SSW 22	SSW 59	15 CST	
11	SSW 22	SSW 19	SSW 17	SSW 28	SSW 13	SSW 20	SSW 26	SSW 19	SSW 15	SSW 24	SSW 37	SSW 39	SSW 50	SSW 54	SSW 52	SSW 31	SSW 35	SSW 30	SSW 43	SSW 35	SSW 41	SSW 39	SSW 41	SSW 28	SSW 80	15 CST	
12	NNW 28	NNW 22	NNW 17	NNW 15	NNW 13	NNW 9	NNW 7	NNW 13	NNW 15	NNW 22	NNW 26	NNW 22	NNW 22	NNW 28	NNW 28	NNW 22	NNW 24	NNW 22	NNW 20	NNW 19	NNW 22	NNW 19	NNW 11	NNW 11	NNW 41	15 CST	
13	NNW 6	NNW 2	NNW 4	NNW 4	NNW 6	NNW 6	NNW 6	NNW 7	NNW 6	NNW 7	NNW 4	NNW 6	NNW 7	NNW 13	NNW 7	NNW 11	NNW 6	NNW 4	NNW 4	NNW 6	NNW 6	NNW 6	NNW 4	NNW 4	NNW 4	NNW 46	17 CST
14	FSF 7	FSF 0	FSF 2	FSF 4	FSF 4	FSF 4	FSF 6	FSF 6	FSF 7	FSF 11	FSF 15	FSF 20	FSF 22	FSF 22	FSF 22	FSF 19	FSF 15	FSF 17	FSF 20	FSF 19	FSF 20	FSF 13	FSF 20	FSF 19	FSF 19	FSF 46	17 CST
15	NNW 24	NNW 30	NNW 20	NNW 28	NNW 24	NNW 20	NNW 24	NNW 20	NNW 15	NNW 22	NNW 26	NNW 26	NNW 22	NNW 26	NNW 28	NNW 24	NNW 22	NNW 19	NNW 9	NNW 4	NNW 4	NNW 0	NNW 0	NNW 0	NNW 0	NNW 44	01 CST

