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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS OCTOBER / OCTOBRE

1977

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

LAT: 49° 54'N		LONG: 97° 14'W		ELEVATION: ALTITUDE:		FEET (ASL) 786 PIEDS (MER)		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  HOURS- 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 DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION	
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%		mm	cm	mm		km/h		km/h	
1	15.2	-1.0	7.1	10.9	2.1	94	31				10.0	NNE	ESE 22*	9.5		
2	16.0	-0.9	7.6	10.4	2.6	93	29				5.2	S	SSE 13	10.3		
3	15.9	2.1	9.0	9.0	4.0	82	39				18.5	S	SSW 30	8.5		
4	11.5	5.0	8.3	9.7	3.3	90	36		0.4	0.4	20.3	W	NW 28*	7.0		
5	10.2	2.3	6.3	11.7	1.3	91	64		1.0	Tr.	25.7	WNW	NW 44	4.9		
6	6.6	-0.2	3.2	14.8	0.0	95	50		0.2	0.2	9.3	E	N 15	7.5		
7	7.2	1.5	4.4	13.6	0.0	94	66		1.6	1.6	18.5	ESE	SE 28	0.0		
8	8.8	0.7	4.8	13.2	0.0	94	58		Tr.	Tr.	10.7	N	NWN 19	2.8		
9	12.6	0.5	6.6	11.4	1.6	93	54		Tr.	Tr.	18.0	S	S 28	4.1		
10	6.3	2.4	4.4	13.6	0.0	94	69		4.0	4.0	20.2	WNW	WNW 30*	0.4		
11	7.8	-1.0	3.4	14.6	0.0	94	56		Tr.	Tr.	21.0	NNW	NNW 31*	6.8		
12	13.6	1.5	7.6	10.4	2.6	77	38				13.7	W	SSE 20*	8.4		
13	18.4	5.0	11.7	6.3	6.7	84	40				21.0	S	NW 35	4.4		
14	13.0	-2.2	5.4	12.6	0.4	89	37				20.1	W	NW 33	9.5		
15	14.7	-3.3	5.7	12.3	0.7	93	31				19.5	W	NW 33	9.5		

COMPARATIVE RECORDS  
RELÈVES COMPARATIFS

MONTH MONTH / OCTOBER / OCTOBRE

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Temperature/Température Précipitation/Précipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	°Celsius		°Fahrenheit		PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
	Millimetres (mm)		Centimetres (cm)				HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE			VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	23.3	25	28.1	3	29.9	30.0	1	1922	13.3	3	1969	106	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	-4.9	22	-16.6	26	-8.3	-1.7	8	1927	-20.6	26	1936	106	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	7.5		2.9		6.6	12.8		1963	0.3		1887	106	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	30.2		2.5		29.2	142.0		1898	.3		1933	106	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	Tr.		Tr.		5.6	38.6		1919 1949	Nil	SVRL		106	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	30.2		2.5		34.8	144.0		1898	2.5		1976	106	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	7		3		8	16		1898	2		1963	94	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	15.0	30	1.0	3,8		74.4	10	1949				106	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	Tr.	5	Tr.	SVRL		24.6	30	1971				106	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	15.0	30	1.0	3,8		74.4	10	1949				106	
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES	1.0	30	.5	3		3.3	11	1960				18	
10 MINUTES	1.8	30	.5	3		3.8	11	1960				18	
15 MINUTES	2.5	30	.5	3		4.6	15	1968				18	
20 MINUTES	3.6	30	.5	3		7.4	15	1960				18	

CLIMATOLOGICAL SUMMARY FOR OCTOBER 1977

AT WINNIPEG, MANITOBA

October weather was slightly warmer, drier and sunnier than usual. Temperatures averaged 7.5 degrees compared to a normal of 6.6 degrees. Warmest day was October 25 with a record 23.3 degrees for that day. Coldest day was October 22, with a minimum of -4.9 degrees, but the first killing frost of -1.4 or lower came on October 14. It ended the growing season which ran for 159 days from May 7. The 1977 growing season was longer than usual, but far short of the record long season of 173 days in 1922.

October sunshine totalled 203.9 hours to make this the third sunniest October on record. October's of 1943 and 1963 had more sunshine.

Precipitation totalled 30.2 mm. compared to a normal amount of 34.8 mm.

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DAILY WEATHER SUMMARY FOR OCTOBER 1977

AT WINNIPEG, MANITOBA

1. Below normal temperatures. Mostly sunny. Light winds.
2. Below normal temperatures. Mostly sunny. Light winds.
3. Normal temperatures. Partly cloudy. Mostly light winds.
4. Near normal temperatures. Partly cloudy. Light rain: 7:50 a.m. to 10:10 a.m. 11:10 p.m. to 11:32 p.m. Mostly light winds, but occasional gusty WNW winds in the afternoon.
5. Below normal temperatures. Mostly cloudy. Very light snow flurries: 2:04 a.m. to 3:07 a.m. 3:21 a.m. to 6:09 a.m. Rain showers: 3:07 a.m. to 4:50 a.m. 6:09 a.m. to 10:29 a.m. 3:05 p.m. to 4:10 p.m. Drizzle: 10:45 p.m. continued. Gustly NW wind in the afternoon.
6. Below normal temperatures. Partly cloudy. Drizzle to 4:45 a.m. Light winds. Visibility slightly reduced.

	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
	13.7	14.8	14.5	15.0	14.7	14.0	11.2	6.2	5.9	3.6	4.5	3.5
	14.5	14.8	15.2	15.5	15.4	14.4	12.6	11.2	10.0	3.5	7.0	5.4
	14.1	14.9	15.4	15.1	15.5	15.0	14.2	13.0	13.2	12.2	12.0	11.1
	10.3	10.0	10.4	11.0	10.5	9.9	4.3	5.6	5.1	5.5	5.5	5.5
	2.4	8.8	8.4	8.6	6.5	6.0	6.0	5.4	5.3	5.0	4.9	4.4
	4.6	5.8	7.0	6.0	5.9	5.2	3.4	2.9	1.5	.7	.6	2.4
	6.5	6.4	7.0	6.5	5.5	5.4	5.2	5.0	4.8	4.5	4.3	3.8
	7.0	8.0	8.2	8.1	7.5	7.0	6.6	4.0	2.7	1.8	1.3	1.2
	6.6	8.4	9.3	11.5	11.8	11.2	8.7	6.3	6.7	5.8	5.2	4.0
	5.3	5.6	5.3	6.2	5.0	4.8	4.2	5.3	5.5	5.2	4.8	3.5
	5.6	6.1	6.4	7.4	6.2	5.7	3.4	2.5	1.8	1.3	1.3	1.5
	10.9	12.1	13.2	13.5	13.2	12.3	9.5	9.2	9.2	8.3	8.0	7.4
	16.0	17.5	18.2	16.0	13.4	12.9	10.3	9.2	7.7	6.9	7.2	6.6
	12.3	12.9	12.0	11.2	10.1	8.6	6.5	4.2	1.0	1.8	-.6	-1.6
	10.1	12.9	13.4	14.1	13.6	11.2	8.5	6.9	4.9	4.0	4.1	3.8
	13.6	15.3	15.6	16.1	17.3	16.6	15.1	13.9	13.2	14.0	14.0	11.0
	9.5	11.9	12.0	11.7	11.7	10.8	9.1	8.0	6.6	5.9	5.4	3.9
	12.2	12.6	14.8	15.1	15.2	14.6	10.9	7.5	6.4	5.4	4.7	3.4
	13.5	15.2	17.0	18.4	18.4	16.3	14.8	14.2	11.6	11.2	9.7	10.8
	14.8	15.8	16.6	16.3	14.5	12.1	8.3	6.4	5.6	3.8	3.6	3.6
	8.6	8.9	8.4	8.4	8.0	6.5	4.0	2.4	1.2	-.7	-.8	-1.4
	5.9	7.3	7.8	7.7	8.0	6.5	4.4	4.2	3.8	2.8	3.2	1.1
	8.8	10.6	11.1	11.5	11.3	9.5	8.8	7.7	7.2	6.9	6.5	6.3
	10.3	11.9	12.3	13.0	13.0	11.2	9.6	10.0	8.0	6.8	6.4	6.0
	16.0	19.5	22.5	22.6	22.0	19.2	16.8	15.2	12.7	11.5	10.1	9.6
	12.2	14.4	15.9	16.8	17.0	15.5	14.0	11.7	11.5	9.3	10.0	5.8
	14.1	15.6	16.6	16.6	16.2	14.5	11.0	9.0	7.5	6.8	4.5	3.7
	13.6	13.8	15.1	15.5	15.2	13.4	11.5	10.2	9.3	9.5	9.4	8.3
	12.7	13.0	12.8	15.3	12.5	12.6	12.0	12.4	13.0	14.1	14.9	14.7
	15.4	16.6	17.4	17.5	16.8	16.1	15.2	14.2	12.0	10.4	10.0	10.2
	11.0	12.1	13.0	13.4	13.0	11.4	9.0	8.3	8.8	7.0	6.2	7.0
	11.0	12.0	12.7	12.8	12.4	11.3	9.5	8.1	7.2	6.5	6.1	5.4

	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
.5	7.2	7.5	7.7	7.5	7.7	7.5	6.8	4.4	4.0	2.6	3.2	2.6
.1	7.5	7.3	7.4	7.5	7.4	7.5	6.7	5.7	5.2	4.7	4.2	3.2
.5	8.2	8.3	8.9	9.0	9.5	9.8	9.3	8.8	8.6	8.2	8.2	8.1
.0	6.3	4.8	4.9	5.0	4.5	4.1	3.7	2.3	2.1	2.6	2.6	2.7
.7	6.1	5.8	5.4	5.4	5.8	5.3	5.0	4.5	4.3	3.7	3.5	3.4
.8	1.7	2.3	2.6	2.2	2.1	2.0	1.0	.7	.0	-.7	-.7	.7
.7	4.0	3.9	4.5	4.2	4.1	4.5	4.5	4.3	4.0	3.8	3.6	3.4
.9	4.6	4.7	5.1	5.4	4.8	4.2	3.6	2.2	1.4	.8	.4	.3
.7	5.0	6.2	7.0	8.7	8.2	7.0	5.7	4.5	4.9	3.3	2.5	1.7
.1	4.4	4.8	4.6	5.2	4.2	4.3	4.0	4.0	3.7	3.5	3.3	2.5
.0	2.8	3.1	3.1	4.0	3.5	3.2	1.7	1.0	.6	.3	-.5	-.3
.2	5.8	6.5	7.3	7.1	7.1	6.9	5.6	5.5	5.6	5.4	5.5	5.4
.9	10.8	11.0	11.2	10.1	9.3	8.9	7.6	6.9	6.0	5.5	5.5	4.0
.0	6.8	7.0	5.9	5.8	5.2	3.7	2.8	1.5	-.5	.2	-1.6	-2.3
.7	5.5	7.0	6.4	6.7	6.4	5.5	4.7	2.9	2.0	1.5	1.5	1.1
.8	7.5	8.3	9.1	9.1	9.3	9.2	8.6	8.1	8.0	8.6	8.3	6.5
.8	7.1	8.4	8.3	8.1	8.1	7.2	6.6	5.7	4.7	4.2	3.9	2.9
.5	7.2	7.5	8.3	8.1	8.3	8.1	6.1	4.7	4.0	3.3	2.8	1.8
.8	8.4	9.7	10.8	11.7	11.7	10.9	10.1	9.7	8.3	7.6	6.8	6.7
.5	9.5	9.9	10.0	9.9	9.6	7.9	5.0	4.6	3.9	2.5	2.0	2.0
.3	3.0	3.3	3.3	3.5	3.5	2.8	1.3	.2	-.6	-1.9	-2.0	-2.5
.0	2.6	3.1	3.5	3.3	3.5	2.7	1.4	1.2	.8	.3	.5	-.9
.2	4.4	5.3	5.2	5.1	5.3	4.5	4.0	3.6	3.4	3.5	3.1	3.3
.6	7.6	8.4	8.8	9.0	8.9	8.0	7.1	7.3	6.3	5.6	5.3	5.0
.8	10.0	11.9	12.1	11.6	11.0	11.0	9.8	8.2	7.3	6.7	5.9	5.4
.9	6.9	8.5	9.8	9.9	10.0	9.5	8.0	6.8	6.9	6.0	5.6	3.2
.1	7.1	7.3	7.6	7.4	7.2	6.5	5.0	3.7	2.8	2.4	1.2	.6
.5	7.5	7.3	8.0	8.0	8.1	7.6	6.4	5.6	4.8	4.8	4.8	4.5
.1	10.5	11.0	11.0	10.9	11.0	11.0	11.5	11.6	11.8	12.5	12.6	12.6
.0	12.4	12.8	13.0	13.4	13.0	12.7	12.0	11.2	10.7	10.0	9.6	10.0
.9	7.6	8.1	8.4	8.5	8.0	7.0	6.0	5.5	6.3	5.3	5.3	5.5
.1	6.6	7.1	7.4	7.5	7.3	6.8	5.9	5.1	4.6	4.1	3.8	3.3

										PEAK GUSTS	HOUR
15	16	17	18	19	20	21	22	23			
E	NE	NF	NMF	NNE	NE	NNE	NE	N			
19	15	15	13	11	7	7	4	4			
SSE	SE	SSF	SSE	SSE	S	S	S	S			
13	7	11	7	6	7	6	9	9			
S	S	SSF	SSE	SSE	SSE	SSE	SSE	S			
26	22	20	15	13	20	22	22	22			
WNW	WNW	W	W	W	W	SW	WSW	W			
26	26	22	19	13	15	11	9	11		WNW	15 CST
NW	N	N	N	N	N	N	N	N		NW	
30	22	22	24	24	19	24	20	19		54	12 CST
E	NE	F	ENE	ENE	ENE	FNE	F	ESE			
9	7	9	9	11	11	7	11	11			
ESE	SE	FSF	ESE	ESE	E	E	E	NE			
22	20	17	19	17	17	17	15	9			
NW	NNW	NW	NW	C	S	SSW	SSW	SSW			
13	19	15	9	0	6	7	9	13			
SSW	NW	WNW	NW	WNW	WNW	WNW	W	W		S	
17	19	19	7	6	19	22	22	19		41	11 CST
NNE	NE	NMF	NNW	N	N	N	N	N		NNE	
30	24	13	15	19	22	26	24	24		33	16 CST
NW	NW	NNW	NW	WNW	W	W	W	W		NNW	
24	22	19	11	7	9	9	13	15		41	04 CST
S	S	SSF	SSE	SSE	SSE	SSE	S	S			
13	15	17	13	15	19	20	20	20			
NW	NW	NW	WNW	WNW	W	W	W	W		WNW	
33	35	20	13	13	13	17	15	15		52	15
NW	NW	NW	NW	NNW	N	N	NNW	NW		NW	
30	33	2R	24	17	7	19	13	13		44	15 CST
WNW	NW	WNW	C	SW	S	C	S	S			
20	17	7	0	7	6	0	9	11			





