

ANNUAL METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE ANNUEL

for/pour WINNIPEG INT'L AIRPORT / AEROPORT INTERN, DE WINNIPEG

YEAR/ANNÉE: 1977

METEOROLOGICAL DATA FOR THE YEAR/DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE													
NUMBER OF DAYS WITH: NOMBRE DE JOURS AVEC:	JAN JAN	FEB FÉV	MAR MAR	APR AVR	MAY MAI	JUN JUIL	JUL JUIL	AUG AOÛT	SEPT SEP	OCT OCT	NOV NOV	DEC DÉC	YEAR ANNÉE
MEASURABLE RAIN PLUIE, MESURABLE	0	0	5	4	16	14	10	20	15	7	3	3	97
RAIN (Trace or More) PLUIE (Trace ou davantage)	3	2	9	11	19	18	21	21	22	11	6	4	147
MEASURABLE SNOW NEIGE, MESURABLE	13	12	4	1	0	0	0	0	0	0	9	11	50
SNOW (Trace or More) NEIGE (Trace ou davantage)	29	22	15	2	1	0	0	0	0	1	13	28	111
MEASURABLE PRECIPITATION PRÉCIPITATION, MESURABLE	11	10	7	5	16	14	10	20	15	7	9	12	136
PRECIPITATION (Trace or More) PRÉCIPITATION (Trace ou davantage)	29	22	20	13	19	18	21	21	22	11	17	28	241
THUNDERSTORMS ORAGES	0	0	0	1	8	5	12	5	3	0	0	0	34
HAIL GRÊLE	0	0	0	0	1*	0	0	0*	0	0	0	0	1
ICE PELLETS GRANULES DE GLACE	1	0	0	0	1	0	0	0	0	0	0	1	3
FREEZING PRECIPITATION PRÉCIPITATION VERGLACANTE	3	1	0	0	0	0	0	0	0	0	3	2	9
FOG* BROUILLARD*	1	1	5	1	0	1	2	2	2	0	2	1	18
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 30°C OR MORE/OU PLUS	0	0	0	0	5	0	3	0	0	0	0	0	8
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 0°C OR LESS/OU MOINS	31	24	11	1	0	0	0	0	0	0	13	28	108
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE 0°C OR LESS/OU MOINS	31	28	28	18	3	0	0	0	0	11	26	31	176
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE -15°C OR LESS/OU MOINS	27	15	7	0	0	0	0	0	0	0	8	26	83

During moderate N is eliminated

*NOTE: Fog is only counted when the visibility is restricted to 1/2 mile or less
AVIS: On ne compte les phénomènes de brouillard que lorsque la visibilité est 1/2 mille ou moins

Unofficial hail - May 15, 26
August 29

July 13 - Tornado near St. Adolphe
July 18 - Tornado St. Malo to Rosa, Manitoba

for/pour WINNIPEG INT'L AIRPORT / AEROPORT INTERN, DE WINNIPEG YEAR/ANNÉE: 1977

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY SNOWFALL - 1977 (cm)												
DATE	JAN JAN	FEB FEV	MAR MAR	APR AVR	MAY MAI	JUN JUN	JUL JUIL	AUG AOÛT	SEPT SEP	OCT OCT	NOV NOV	DEC DEC
1	0.2	0.7	Tr.					Tr.				1.3
2	Tr.	0.8	Tr.	0.3	1.0							Tr.
3	0.3	1.5	Tr.			0.1	1.1					Tr.
4		0.4	1.0	0.8	Tr.	Tr.	0.3					1.1
5	Tr.	0.2	1.1	1.4	0.3	0.1	0.1			Tr.		0.8
6	Tr.	Tr.	Tr.	Tr.	Tr.							Tr.
7	Tr.	Tr.		0.0	0.0	Tr.						0.6
8		Tr.	0.5	0.1	Tr.				Tr.			0.8
9	Tr.	Tr.	0.3	0.0		Tr.	Tr.					
10	Tr.	0.8	0.1	0.1	0.1	0.1			Tr.			
11	0.3	Tr.		0.1	0.1				0.1	Tr.	Tr.	1.6
12	Tr.	0.4	Tr.	0.0	Tr.	0.1			0.1	Tr.		0.2
13	1.8	0.2	Tr.		0.1	0.1	0.1		0.1			0.2
14	0.7				Tr.	0.1	0.0	Tr.	Tr.			Tr.
15	Tr.		Tr.	0.1		0.1	0.0	Tr.				Tr.
16	Tr.	2.0	1.0	0.1	Tr.	Tr.					4.2	Tr.
17	Tr.	Tr.	Tr.		0.1	0.1	Tr.	0.1			1.4	9.9
18	0.2	1.0	0.5		Tr.	0.0	0.0				0.2	0.8
19	5.5	Tr.	Tr.	0.0	Tr.	0.1	0.1	Tr.			0.8	Tr.
20	Tr.	Tr.	0.8	0.0							17.2	Tr.
21	Tr.	Tr.	Tr.	0.1				Tr.			0.8	
22	1.5		Tr.	0.1			0.1	0.0			Tr.	Tr.
23	0.9		Tr.		Tr.		0.0				Tr.	Tr.
24	Tr.	11.5	Tr.		Tr.							Tr.
25	0.4	4.0	Tr.	0.1					0.1			Tr.
26	Tr.	Tr.	2.0	Tr.				Tr.				Tr.
27	0.7	Tr.	Tr.			0.1	0.0	Tr.	Tr.		Tr.	1.0
28	0.2			0.0	0.1	0.1	0.1	0.0			0.4	Tr.
29	0.2	Tr.		0.1	Tr.	0.1	Tr.	0.0			1.1	Tr.
30	Tr.	0.1			0.1	0.1	0.1	Tr.			2.3	Tr.
31	Tr.		Tr.	0.1	Tr.		Tr.					Tr.
TOTAL	12.9	23.5	4.3	1.4	Tr.	0.1	0.1	0.1	0.1	Tr.	28.4	18.3

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METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY MEAN TEMPERATURES - 1977												
DATE	JAN JAN	FEB FEV	MAR MAR	APR AVR	MAY MAI	JUN JUN	JUL JUIL	AUG AOÛT	SEPT SEP	OCT OCT	NOV NOV	DEC DEC
1	-17.3	-16.2	- 9.3	2.5	6.4	12.9	16.2	14.9	10.7	7.1	6.2	-12.1
2	-19.0	-10.1	-13.5	-1.9	9.8	14.3	18.4	18.0	12.9	7.6	8.9	-17.2
3	-19.2	-11.9	-12.8	-3.3	16.8	18.9	20.6	15.0	12.4	9.0	2.9	-22.6
4	-22.4	-19.9	-11.7	-3.5	16.7	17.5	21.2	16.6	11.8	8.3	1.1	-20.0
5	-20.7	-23.3	-10.5	-6.1	8.3	14.6	23.3	15.7	10.8	6.3	6.1	-17.6
6	-22.6	-25.0	- 8.7	-0.1	5.3	16.4	22.8	17.9	12.9	3.2	8.9	-21.5
7	-27.9	-11.1	- 4.2	-1.5	8.6	18.6	19.6	13.8	15.1	4.4	9.5	-23.4
8	-28.9	- 4.7	1.3	4.3	16.2	13.6	15.6	16.8	15.6	4.8	4.1	-23.7
9	-29.2	- 5.4	3.6	15.0	19.4	16.6	16.6	19.7	12.8	6.6	-1.5	-29.9
10	-31.4	- 5.2	1.7	10.6	23.1	16.0	20.5	11.6	14.0	4.4	-3.8	-29.4
11	-27.7	- 0.5	- 0.1	8.3	21.9	13.4	18.9	14.9	12.7	3.4	-3.6	-18.8
12	-28.9	- 2.7	- 2.2	8.0	23.8	13.5	20.0	12.7	11.9	7.6	-3.2	-14.9
13	-25.0	-12.1	1.7	7.3	23.7	13.9	17.5	11.9	12.1	11.7	-0.9	-14.6
14	-28.2	-19.6	4.5	11.4	23.7	13.7	17.9	14.5	16.2	5.4	-2.3	-12.8
15	-31.7	-20.6	- 1.5	14.0	22.8	18.8	18.8	15.5	19.0	5.7	-0.2	- 5.5
16	-30.3	- 5.8	- 4.3	12.9	17.3	18.8	20.4	12.5	17.5	9.8	0.8	- 1.4
17	-28.7	-11.0	- 0.3	18.8	16.2	15.5	21.3	11.7	12.7	7.6	-4.0	0.6
18	-17.0	-15.4	0.4	8.0	17.0	16.8	24.7	13.8	10.8	8.2	-6.5	- 1.0
19	- 8.3	-13.3	- 3.7	4.3	18.7	14.8	19.7	15.7	9.9	9.5	-8.1	- 6.9
20	-13.2	-16.3	- 9.3	8.7	16.8	17.8	17.1	14.8	11.5	8.3	-7.9	-13.5
21	-12.2	- 7.6	- 3.1	6.6	17.0	18.8	18.5	12.7	14.4	3.0	-15.7	-18.7
22	- 6.4	- 5.8	-11.9	7.1	15.9	19.1	22.3	10.4	12.1	1.7	-19.2	-17.7
23	- 4.0	- 7.5	-11.0	6.4	18.2	21.2	22.3	9.7	12.6	5.9	-18.4	-16.9
24	- 7.9	- 6.3	- 0.7	4.0	21.3	20.2	18.5	13.3	11.7	8.0	-22.9	-22.6
25	-12.6	- 7.7	1.1	13.3	26.0	21.0	16.1	18.2	10.6	12.5	-18.2	-23.9
26	-24.6	-11.0	2.4	15.5	23.3	18.3	18.5	15.4	10.2	11.4	-17.6	-27.0
27	-26.1	-15.2	5.9	6.6	21.7	16.9	19.5	14.5	10.9	9.2	-14.0	-19.5
28	-24.9	-15.0	8.5	9.5	19.9	18.4	20.1	12.5	9.3	8.2	-13.7	-19.1
29	-17.6	0.2	2.0	14.4	18.5	16.4	15.9	14.0	7.7	12.3	-5.6	-21.9
30	-19.2	0.01	- 0.9	20.3	18.4	14.3	18.8	16.5	7.7	14.0	-3.8	-24.4
31	-17.3	0.2	- 0.1	0.5	19.1		18.7	10.8	0.5	8.6	0.22	-22.8

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DAILY MAXIMUM TEMPERATURES - 1977												
DATE	JAN JAN	FEB FEV	MAR MAR	APR AVR	MAY MAI	JUN JUIN	JUL JUIL	AUG AOÛT	SEPT SEP	OCT OCT	NOV NOV	DEC DEC
1	-13.9	-10.0	-4.0	7.3	13.3	17.6	22.4	21.0	16.3	15.2	12.3	-8.6
2	-13.6	- 8.5	-5.9	4.9	20.7	23.0	27.6	23.5	17.8	16.0	17.8	-13.2
3	-13.7	- 9.0	-3.1	3.9	26.3	23.6	24.9	21.0	17.8	15.9	8.3	-19.8
4	-18.3	-14.4	-3.7	2.2	20.8	25.1	27.3	22.8	16.0	11.5	7.8	-14.4
5	-15.1	-16.2	-2.5	-1.1	15.0	17.9	28.1	20.0	13.1	10.2	9.9	-14.4
6	-16.3	-16.2	-0.3	10.4	10.2	25.2	27.9	25.3	16.9	6.6	13.0	-17.9
7	-23.4	- 5.8	3.0	3.9	19.0	24.5	26.2	18.9	20.8	7.2	11.7	-19.1
8	-24.6	3.8	5.2	14.5	25.9	20.3	21.0	23.8	18.4	8.8	7.6	-19.1
9	-23.9	0.2	7.8	26.8	27.3	22.5	23.6	28.9	17.6	12.6	0.6	-27.3
10	-26.6	- 1.5	5.2	19.8	31.0	19.4	26.3	15.4	21.0	6.3	1.9	-25.0
11	-23.2	2.2	3.0	17.8	30.0	16.0	21.9	23.7	17.9	7.8	-0.6	-11.0
12	-22.4	- 0.3	1.7	17.7	32.2	18.7	25.5	18.8	19.6	13.6	0.4	-10.7
13	-18.9	- 4.9	3.1	18.5	32.6	16.3	20.1	18.3	17.5	18.4	4.3	-11.0
14	-25.4	-14.6	7.7	19.3	29.7	16.9	22.5	21.3	25.4	13.0	2.3	- 7.3
15	-28.7	-13.3	2.1	22.4	29.7	22.8	25.5	21.4	25.4	14.7	2.8	- 3.7
16	-25.5	2.3	-1.0	25.2	23.6	22.7	26.0	19.0	22.7	18.1	2.8	1.2
17	-19.3	-6.6	5.0	26.3	22.0	18.3	30.5	18.4	15.0	12.5	-0.8	1.2
18	-12.5	-9.4	2.8	15.5	22.9	22.2	31.6	22.4	12.7	15.5	-2.2	1.8
19	- 3.4	-7.1	-1.1	12.4	23.2	18.2	26.0	24.6	11.8	18.9	-4.6	- 3.6
20	- 8.1	-8.2	-6.1	15.9	21.4	25.7	24.0	20.9	14.0	16.7	-4.4	- 7.0
21	- 7.4	-4.2	4.0	13.7	24.8	25.4	25.7	20.2	18.8	9.2	-11.3	-14.0
22	- 1.2	-3.6	-7.7	12.1	18.2	23.9	30.4	16.2	13.0	8.3	-15.2	-13.7
23	-2.4	-5.8	-3.9	14.3	24.2	26.4	29.4	17.3	13.7	11.8	-14.2	-14.0
24	-3.5	-4.1	5.3	14.2	29.5	26.1	25.6	20.5	13.5	13.1	-20.5	-16.9
25	-4.8	-6.2	5.5	26.8	31.7	29.5	23.8	22.5	11.5	23.3	-13.2	-19.2
26	-20.3	-6.0	5.0	29.0	28.8	24.9	27.0	21.5	11.3	17.1	-12.6	-24.3
27	-21.1	-9.8	11.8	13.8	26.7	24.2	25.5	20.6	15.2	17.2	-10.6	-10.2
28	-17.6	-7.0	16.0	19.7	23.9	23.9	27.7	18.0	14.7	16.1	-8.7	-11.4
29	-15.6		4.8	23.5	23.9	22.3	23.2	22.9	12.8	15.0	0.4	-17.5
30	-16.4		3.7	29.7	23.0	17.5	23.2	21.2	15.3	18.0	1.5	-19.6
31	-10.7		7.1		25.0		24.9	14.2		13.7		-17.6

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METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
NOTE: The following units are used throughout this summary -- Temperature: Degrees and tenths Celcius (°C) Degree Day: Difference of Daily Mean Temperature from 18.0°C Rain: Millimetres and tenths (mm) Snow: Centimetres and tenths (cm) Total Precipitation: Millimetres and tenths (mm) Wind Speed: Kilometres per hour (km/h) Wind Direction: Direction (true north) from which the wind is blowing. Barometric Pressure: Kilopascals and hundredths (kPa) Sunshine: Hours and tenths of bright sunshine.						AVIS: Unités Utilisées -- Température: Degrés et dixième Celsius (°C) Degré Jour: Différence entre la température moyenne du jour et 18.0°C Pluie: Millimètres et dixièmes (mm) Neige: Centimètres et dixièmes (cm) Précipitation Totale: Millimètres et dixièmes (mm) Vitesse du vent: Kilomètres par heure (km/h) Direction du vent: Direction (nord géographique) d'où le vent souffle. Pression Barométrique: Kilopascals et centièmes (kPa) Insolation: Nombre d'heures et dixièmes d'insolation effective						

MONTH MOIS	TEMPERATURE / TEMPÉRATURE										DEGREE DAYS DEGRÉS JOURS	
	MEAN / MOYENNE			NORMAL / NORMALE			EXTREME / EXTRÊME				BELOW 18.0°C AU DESSOUS DE 18.0°C	NORMAL NORMALE
	MAXIMUM	MINIMUM	MONTHLY MENSUELLES	MAXIMUM	MINIMUM	MEAN MOYENNE	MAXIMUM MAXIMALE	DATE	MINIMUM MINIMALE	DATE		
JAN/JAN	-16.1	-25.9	-21.0	-13.4	-23.2	-18.3	- 1.2	22	-38.0	17	1208.4	1125.6
FEB/FÉV	- 6.6	-16.7	-11.7	-10.4	-21.1	-15.7	3.8	8	-33.7	6	830.2	951.1
MAR/MAR	2.3	- 7.9	- 2.8	- 2.9	-13.3	- 8.1	16.0	28	-22.5	3	644.7	806.1
APR/AVR	16.0	- 1.3	7.4	8.6	- 1.9	3.3	29.7	30	-11.1	5	321.7	438.9
MAY/MAI	24.4	11.1	17.8	17.1	4.1	10.6	32.6	13	- 1.8	7	63.7	233.3
JUN/JUIN	22.0	11.3	16.7	22.7	10.3	16.5	29.5	25	5.6	2	53.1	73.3
JUL/JUIL	25.7	13.0	19.4	25.9	13.5	19.7	31.6	18	8.3	25	11.1	20.6
AUG/AOÛT	20.8	8.0	14.4	25.0	12.2	18.7	28.9	9	2.0	23	113.9	36.7
SEPT/SEP	16.6	8.1	12.4	18.4	6.6	12.6	25.4	14,15	0.1	30	170.5	172.8
OCT/OCT	13.6	1.4	7.5	11.9	1.1	6.6	23.3	25	- 4.9	22	324.3	354.4
NOV/NOV	- 0.5	- 9.0	- 4.8	- 0.5	- 8.4	- 4.4	17.8	2	-25.3	24	682.6	670.0
DEC/DÉC	-13.1	-21.7	-17.4	- 9.2	-18.2	-13.7	1.8	18	-33.8	10	1098.7	981.1
YEAR ANNÉE	8.8	- 2.5	3.2	7.8	- 3.2	2.3	32.6	May 13	-38.0	Jan 17	5522.9	5863.9

MONTH MOIS	PRECIPITATION / PRÉCIPITATIONS													
	MONTHLY / MENSUELLES			NORMAL / NORMALE			EXTREME / EXTRÊME							
	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL	RAIN PLUIE	SNOW NEIGE	TOTAL	RAIN / PLUIE				SNOW / NEIGE			
							6 HRS	DATE	24 HRS	DATE	6 HRS	DATE	24 HRS	DATE
JAN/JAN	Tr.	12.9	12.5	0.3	24.9	23.6	Tr.	19	Tr.	19*	5.5	19	5.5	19
FEB/FÉV	Tr.	23.5	20.9	0.8	19.8	19.1	Tr.	11	Tr.	24*	4.1	24	11.5	24
MAR/MAR	7.3	4.3	9.9	6.1	21.1	26.2	3.0	12	3.6	12	1.3	26	2.0	26
APR/AVR	4.7	1.4	5.2	25.4	11.9	37.3	3.4	17	3.6	17	1.4	5	1.4	5
MAY/MAI	177.7	Tr.	177.7	54.6	2.5	57.2	37.1	26	50.8*	4	Tr.	6	Tr.	6
JUN/JUIN	88.4		88.4	80.3	Tr.	80.3	15.8	17	28.5	17				
JUL/JUIL	85.3		85.3	80.3	0.0	80.3	20.2	13	41.0	13				
AUG/AOÛT	89.6		89.6	73.7	0.0	73.7	13.8	6	18.6	29				
SEPT/SEP	148.2		148.2	52.6	0.3	52.6	34.0	8	52.6	8*				
OCT/OCT	30.2	Tr.	30.2	29.2	5.6	34.8	15.0	30	15.0	30	Tr.	5	Tr.	5
NOV/NOV	0.6	28.4	28.4	7.1	21.3	27.2	0.2	29	0.2	29*	7.0	20	17.2	20
DEC/DÉC	1.6	18.3	18.8	0.8	23.9	22.9	0.8	18	1.1	18	7.5	17	9.9	17
YEAR ANNÉE	633.6	88.8	715.1	411.2	131.3	535.2	37.1	May 26	52.6	8	7.5	Dec. 17	17.2	Nov. 20

*Other Days - January 23, 24
February 12
November 7, 30

*May 4-5 56.6 mm
*September 8-9 59.1 mm