

ANNUAL METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE ANNUEL

for/pour WPG. INTN'L AIRPORT/ A L'AEROPORT INTERN. DE WPG YEAR/ANNÉE 1983

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE														
NOTE: The following units are used throughout this summary – Temperature: Degrees and tenths Celsius (°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	-7.8	-16.9	-12.4	-14.3	-24.2	-19.3	0.9	8,9	-30.2	25	942.1	1154.7		
FEB/FÉV	-6.1	-14.9	-10.5	-10.1	-21.0	-15.6	4.2	13	-31.1	5,6	798.6	948.6		
MAR/MAR	-1.2	-8.1	-4.7	-2.8	-13.5	-8.2	6.7	30	-16.1	22	702.6	811.3		
APR/AVR	9.1	-2.8	3.2	8.9	-2.2	3.4	23.3	24	-9.9	15	445.1	439.4		
MAY/MAI	15.9	0.7	8.3	18.0	4.5	11.3	26.0	27	-8.6	15	300.2	219.3		
JUN/JUIN	23.3	10.8	17.1	23.1	10.5	16.8	32.2	10,11	0.8	5	65.6	69.9		
JUL/JUIL	28.1	16.3	22.2	25.9	13.3	19.6	33.7	14	5.4	5	12.0	21.1		
AUG/AOÛT	29.7	15.2	22.5	24.7	11.8	18.3	36.5	4	8.8	20	5.8	43.3		
SEPT/SEP	18.8	7.0	12.9	18.4	6.3	12.4	38.8	2	-1.2	22	180.6	178.1		
OCT/OCT	10.7	0.5	5.6	11.5	0.7	6.1	15.7	8	-8.9	18	383.4	369.6		
NOV/NOV	1.3	-5.1	-1.9	-0.3	-8.8	-4.5	15.4	1	-16.0	30	597.0	676.0		
DEC/DÉC	-15.9	-24.6	-20.3	-9.4	-18.6	-14.0	-8.3	4	-33.0	19	1187.8	991.8		
YEAR ANNÉE	8.8	-1.8	3.5	7.8	-3.4	2.2	38.8	SEPT. 2nd	-33.0	19	5620.8	5923.1		
PRECIPITATION / PRÉCIPITATIONS														
MONTH MOIS	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	0.2	14.8	12.7	0.2	23.7	21.3	0.2	8	0.2	8	2.2	10	2.8	19
FEB/FÉV	3.1	15.0	15.1	0.7	18.9	17.5	1.7	27	1.9	27	3.4	17	5.2	17
MAR/MAR	40.4	27.0	65.6	3.3	21.1	22.7	11.0	6	28.0	6	13.0	2	14.9	2
APR/AVR	2.5	4.4	6.3	27.1	11.3	38.5	1.7	25	2.5	25	2.0	12	2.4	12
MAY/MAI	29.1	Tr.	29.1	63.2	2.5	65.7	14.2	27	14.2	27*	TR.	24	TR.	24
JUN/JUIN	139.2		139.2	80.1	TR.	80.1	44.5	22	44.5	22*				
JUL/JUIL	29.8		29.8	75.9	0.0	75.9	9.0	30	11.6	30				
AUG/AOÛT	85.2		85.2	75.2	0.0	75.2	24.0	20	47.2	20				
SEPT/SEP	52.8	TR.	52.8	53.0	0.2	53.3	8.0	30	24.0	30*	TR.	30	TR.	30
OCT/OCT	21.1	0.5	21.6	25.9	5.2	30.9	4.2	2	5.6	2*	0.5	11	0.5	11
NOV/NOV	0.7	19.2	16.3	5.5	21.9	25.2	0.5	19	0.7	19	4.0	20	4.4	20*
DEC/DÉC	0.0	8.8	5.7	0.9	20.7	19.2	0.0				1.4	10	2.0	21*
YEAR ANNÉE	404.1	89.7	479.4	111.0	125.5	525.5	JUNE 44.5	22	*AUG. 47.2	20	MAR. 13.0	2	MAR. 14.9	2

JAN.10-11 2.8 CM of SNOW. May 27-28 18.4 MM of Rain.
 June 21-22 52.3 MM of Rain. Aug. 20-21 48.4 MM of Rain.
 Sept.29-30 24.2 MM of Rain. Oct.2-3 6.6 CM of Snow
 Nov.19-20 7.4 CM of Snow. Greatest 24 hr. rain 52.3 MM of rain June 21-22.

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METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY MAXIMUM TEMPERATURES 1983 (°C)												
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	-5.6	-6.2	-0.6	1.3	15.7	21.9	21.3	31.0	32.2	10.9	15.4	-12.1
2	10.7	-17.1	0.3	1.2	15.7	20.6	19.2	30.5	33.8	8.4	7.0	-13.0
3	-4.2	-19.7	1.2	5.5	10.8	19.2	25.0	33.1	27.2	10.0	6.2	-9.0
4	-2.7	-17.5	1.8	4.7	10.9	13.6	17.8	35.3	27.3	11.0	8.2	-10.5
5	-20.7	-20.0	1.6	5.7	14.0	19.0	19.5	32.2	20.4	10.9	11.0	-10.5
6	-19.7	-14.6	1.3	7.9	12.5	22.5	29.2	33.2	15.9	11.7	9.9	-9.5
7	-6.9	-15.8	-4.6	9.3	12.0	24.8	29.0	32.1	24.0	10.9	10.9	-1.0
8	0.0	-12.3	-7.3	11.3	19.5	18.9	31.0	27.3	18.7	15.7	15.3	-1.0
9	0.0	-5.3	-8.2	12.9	19.1	27.0	29.5	29.8	20.2	14.4	2.5	-2.1
10	-4.4	-0.1	-3.3	10.3	16.8	32.2	33.0	27.8	16.8	15.3	0.6	-1.4
11	-3.7	-4.1	1.8	12.3	8.6	32.2	29.2	29.5	15.4	9.2	1.0	-11.7
12	-7.2	0.9	4.1	4.6	10.2	25.9	31.8	31.3	17.6	6.0	1.3	-15.0
13	-3.4	4.2	1.3	-0.8	6.2	20.0	30.9	28.5	16.3	6.9	3.0	-10.4
14	11.0	-2.8	-6.2	0.3	4.0	24.0	33.7	32.7	18.1	9.9	2.8	-1.6
15	-13.8	0.1	-2.2	0.6	6.2	12.4	33.0	30.3	13.2	7.9	-10.3	-16.0
16	-8.6	0.5	-1.2	2.9	13.2	20.1	25.2	22.8	14.0	7.8	1.8	-20.4
17	-13.0	-11.9	-3.0	7.8	23.0	24.0	27.4	34.3	17.0	6.5	1.4	-27.3
18	-3.0	-5.0	-4.5	7.3	25.3	25.5	28.0	36.2	13.2	6.3	0.9	-25.0
19	-6.0	-5.4	-4.1	13.9	11.5	24.2	29.3	24.9	10.1	9.5	2.0	-25.0
20	-13.8	-6.1	-5.9	17.7	18.8	25.9	31.7	16.9	8.9	11.5	0.5	-23.5
21	-20.5	-1.3	-7.7	14.7	23.2	27.3	32.0	24.3	8.9	11.2	-2.8	-21.7
22	-20.4	1.0	-6.0	14.0	20.0	24.5	36.7	25.3	8.2	13.9	-5.9	-26.3
23	-3.3	-2.6	-1.6	20.8	20.6	26.3	25.5	26.0	18.9	10.4	-5.8	-26.5
24	-11.5	-5.0	2.4	23.3	12.3	28.4	28.1	29.6	23.3	11.3	-6.6	-21.8
25	-22.7	-7.9	1.2	19.8	18.6	26.3	30.1	32.1	23.2	13.0	-4.6	-11.1
26	-20.7	-2.2	-2.8	17.0	23.8	23.8	29.5	30.9	26.3	14.9	-2.4	-18.7
27	-8.1	-2.2	-2.0	6.2	25.0	23.0	30.9	31.4	29.8	14.8	-3.3	-13.1
28	8.0	-7.6	3.2	4.4	18.2	25.0	30.8	30.3	23.8	9.0	-7.8	-17.1
29	-7.4		3.0	6.6	16.3	23.3	29.0	30.0	8.2	11.6	-9.2	-16.9
30	-17.2		6.7	10.0	17.8	19.9	27.5	29.3	7.8	12.4	-6.8	-12.5
31	-8.9		3.2		18.7		27.0	33.3		10.5		-12.9
AVG.	-7.8	-6.1	-1.2	9.1	15.9	23.3	28.1	29.7	18.8	10.7	1.3	-15.9

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY MEAN TEMPERATURES 1983 (°C)												
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	-12.6	-11.9	-4.6	-0.6	5.4	12.5	17.9	23.8	25.6	7.6	10.5	-15.6
2	-16.0	-22.1	-0.7	-1.6	9.5	15.8	17.4	24.7	29.5	7.4	3.0	-16.8
3	-9.0	-23.3	0.2	1.6	4.5	14.3	21.1	25.8	21.8	8.5	1.9	-13.5
4	-4.6	-22.9	1.1	1.2	2.0	8.3	12.2	29.3	19.1	8.7	6.3	-11.0
5	-5.8	-25.6	1.0	0.9	7.4	9.9	12.5	24.1	15.2	6.2	8.0	-15.9
6	-9.2	-23.0	-1.7	1.9	5.0	13.7	21.5	23.3	13.4	5.7	4.3	-16.7
7	-8.7	-16.9	-9.6	3.2	3.5	13.3	24.6	25.2	15.4	4.7	6.2	-12.8
8	-3.6	-16.4	-11.3	4.5	9.6	13.4	24.5	20.5	13.8	8.2	-1.0	-19.8
9	-4.3	-11.3	-12.1	6.3	14.6	16.7	25.2	22.4	12.7	9.2	-3.0	-24.6
10	-9.5	-5.4	-8.3	4.5	12.5	23.7	26.3	20.4	13.0	11.4	-5.2	-21.3
11	-19.5	-9.9	-2.0	4.6	3.6	25.2	19.2	19.7	10.4	4.6	-4.8	-18.3
12	-15.9	-6.2	0.7	-1.0	4.8	22.2	22.9	24.6	9.8	2.0	-2.1	-20.5
13	-11.5	0.6	-4.3	-4.0	1.6	16.4	25.0	22.7	10.1	0.1	0.7	-15.2
14	-16.2	-4.6	-10.2	-4.2	-1.3	17.2	26.3	22.7	9.3	2.1	0.8	-16.3
15	-17.8	-2.4	-5.5	-4.7	-1.2	10.0	28.3	23.4	11.6	2.6	-1.3	-22.5
16	-15.4	-6.5	-3.2	-2.8	3.9	12.1	21.2	18.5	11.8	3.1	-0.7	-27.1
17	-20.4	-14.9	-5.1	0.1	12.2	17.1	20.7	24.3	13.2	-0.5	-0.4	-29.3
18	-14.5	-9.9	-7.5	3.0	15.0	18.1	22.0	25.1	9.7	-1.3	1.6	-29.5
19	-8.6	-7.3	-7.2	6.2	4.9	20.7	23.7	17.3	6.5	1.2	1.1	-29.3
20	-5.0	-8.7	-8.9	9.4	7.3	21.7	24.6	12.9	6.0	9.6	-1.9	-27.3
21	-3.9	-5.7	-9.8	6.2	14.8	20.6	24.8	18.9	4.9	8.6	-4.8	-24.0
22	-5.0	-3.9	-11.1	5.7	11.0	19.2	23.9	18.5	3.5	9.2	-9.0	-28.8
23	-7.8	-8.7	-8.6	9.9	11.9	19.5	20.2	20.8	9.4	8.3	-9.2	-29.7
24	-19.1	-11.3	-2.4	13.8	6.3	22.4	20.6	22.5	14.8	6.3	-9.0	-25.2
25	-26.5	-5.4	-1.2	13.4	9.3	22.8	22.8	25.2	15.2	5.9	-8.6	-17.6
26	-25.4	0.1	-6.4	10.6	15.7	17.9	24.5	23.3	15.9	7.1	-5.1	-13.0
27	-14.7	-2.7	-6.4	2.1	17.9	16.1	25.6	23.6	21.3	8.6	-5.3	-15.6
28	-4.1	-8.8	-4.5	-0.1	11.8	17.1	24.4	23.2	14.9	2.5	-8.3	-20.5
29	-14.1		-0.3	2.0	11.2	17.9	22.1	22.2	4.0	3.5	-10.3	-17.9
30	-19.8		3.4	2.2	12.7	16.7	21.7	22.1	4.9	6.1	-11.4	-16.4
31	-15.6		1.9		10.4		20.2	25.8		7.4		-18.6
MEAN	-12.4	-10.5	- 4.7	3.2	8.3	17.1	22.2	22.5	12.9	5.6	-1.9	-20.3

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY SNOWFALL 1983 (CMS)												
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
01	Tr.	Tr.	0.6	Tr.								Tr.
02		Tr.	14.9	0.8								Tr.
03	1.8		0.2									Tr.
04	0.9	Tr.										Tr.
05	Tr.	Tr.										Tr.
06	Tr.	Tr.	Tr.									0.8
07	0.2	0.2	1.9									0.4
08	2.0		0.4								Tr.	
09	Tr.	0.4										1.4
10	2.2	4.8								0.5		2.0
11	0.8	Tr.		Tr.	Tr.					Tr.	1.1	
12	0.3	Tr.		2.4							0.3	
13	0.4	Tr.	1.0	0.8	Tr.						Tr.	Tr.
14	0.2	0.4	TR.								Tr.	0.2
15												0.2
16	Tr.		Tr.								0.2	Tr.
17	Tr.	5.2	0.3									
18		3.4	0.4									
19	2.8	Tr.	0.2								3.2	
20	0.2	Tr.									4.4	
21		Tr.									2.8	2.0
22											2.6	Tr.
23	2.6	Tr.									0.6	0.2
24	Tr.	Tr.	0.4		Tr.						Tr.	0.8
25	Tr.		2.6								Tr.	0.4
26			0.2								Tr.	Tr.
27	Tr.	0.6		Tr.							0.2	0.4
28	Tr.	Tr.		Tr.							1.2	Tr.
29	0.4		0.4	0.4							2.0	
30	Tr.		Tr.						Tr.		0.6	
31	Tr.		3.5									
TOTAL	14.8	15.0	27.0	4.4	Tr.				Tr.	0.5	19.2	8.8

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	1	3	6	1	11	13	6	11	13	10	1	0	76
RAIN (Trace or More) PLUIE (Trace ou davantage)	9	6	12	4	17	17	8	18	22	13	11	0	137
MEASURABLE SNOW NEIGE, MESURABLE	13	7	14	4	0	0	0	0	0	1	12	11	62
SNOW (Trace or More) NEIGE (Trace ou davantage)	25	21	18	8	3	0	0	0	1	2	18	21	117
MEASURABLE PRECIPITATION PRÉCIPITATION, MESURABLE	10	6	17	5	11	13	6	11	13	11	11	10	124
PRECIPITATION (Trace or More) PRÉCIPITATION (Trace ou davantage)	26	22	21	10	17	17	8	18	22	13	22	21	217
THUNDERSTORMS ORAGES	0	0	0	1	4	7	1	8	3	0	0	0	24
HAIL GRÊLE	0	0	0	0	0*	0*	0	0	0	0	0	0	0*
ICE PELLETS GRANULES DE GLACE	0	1	2	0	2	0	0	0	1	0	1	0	7
FREEZING PRECIPITATION PRÉCIPITATION VERGLACANTE	8	6	6	1	2	0	0	0	0	0	3	0	26
FOG* BROUILLARD*	1	3	1	0	0	1	0	0	0	2	4	0	12
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 30.0 OR MORE/OU PLUS	0	0	0	0	0	2	12	17	2	0	0	0	33
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 0.0 OR LESS/OU MOINS	29	21	17	1	0	0	0	0	0	0	11	31	110
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE 0.0 OR LESS/OU MOINS	31	28	28	26	16	0	0	0	3	16	24	31	203
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE 15.0 OR LESS/OU MOINS	17	12	4	0	0	0	0	0	0	0	1	30	64

*NOTE: Fog is only counted when the visibility is restricted to ½ mile or less
AVIS: On ne compte les phénomènes de brouillard que lorsque la visibilité est ½ mille ou moins

UNOFFICIAL HAIL IN WINNIPEG MAY 17, June 2, 20, 21, 22, 25, 1983