



ANNUAL METEOROLOGICAL SUMMARY  
SOMMAIRE MÉTÉOROLOGIQUE ANNUEL

for/pour **WPG INT'L AIRPORT / AÉROPORT INTERN. DE WPG**

YEAR/ANNÉE **1980**

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE														
<b>NOTE:</b> 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.							<b>AVIS:</b> 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'ou 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							
	MAXIMUM	MINIMUM	MONTHLY MENSUELLES	MAXIMUM	MINIMUM	MEAN MOYENNE	MAXIMUM MAXIMALE	DATE	MINIMUM MINIMALE	DATE	BELOW 18.0°C AU DESSOUS DE 18.0°C	NORMAL NORMALE		
JAN/JAN	-13.9	-23.6	-18.8	-13.4	-23.2	-18.3	0.0	13	-32.3	29	1140.0	1125.6		
FEB/FÉV	-11.2	-20.5	-15.9	-10.4	-21.1	-15.7	-1.7	9	-35.2	29	981.5	953.1		
MAR/MAR	-4.0	-16.0	-10.0	-2.9	-13.3	-8.1	8.0	30	-30.7	1	868.4	809.8		
APR/AVR	16.1	-0.3	7.9	8.6	-1.9	3.3	34.3	21	-7.0	2	311.4	441.1		
MAY/MAI	23.8	7.5	15.7	17.1	4.1	10.6	37.0	22	-4.7	8	140.6	236.3		
JUN/JUIN	24.0	9.6	16.8	22.7	10.3	16.5	34.4	22	0.8	2,15	74.2	75.5		
JUL/JUIL	27.3	13.5	20.4	25.9	13.5	19.7	34.8	13	5.5	25	9.7	20.9		
AUG/AOÛT	22.5	11.3	16.9	25.0	12.2	18.7	30.7	19	3.5	27	47.8	37.5		
SEPT/SEP	16.9	5.5	11.2	18.4	6.6	12.6	33.3	7	-4.2	18	210.2	174.8		
OCT/OCT	8.6	-0.5	4.1	11.9	1.1	6.6	24.3	7	-8.9	28	432.7	355.7		
NOV/NOV	2.4	-6.4	-2.0	-0.5	-8.4	-4.4	16.0	5	-21.5	30	601.1	674.1		
DEC/DÉC	-10.3	-20.6	-15.5	-9.2	-18.2	-13.7	6.4	27	-30.3	24	1037.3	983.0		
YEAR ANNÉE	8.5	-3.4	2.6	7.8	-3.2	2.3	37.0	May 22	-35.2	Feb. 29	5854.9	5887.4		
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.	35.5	34.0	0.3	24.9	23.6	Tr.	1,15	Tr.	1,15	12.8	10	18.6	10*
FEB/FÉV		18.5	17.6	0.8	19.8	19.1					3.8	21	6.4	21*
MAR/MAR	Tr.	13.6	13.2	6.1	21.1	26.2	Tr.	15	Tr.	15	4.0	12	6.0	12
APR/AVR	Tr.		Tr.	25.4	11.9	37.3	Tr.	6,16	Tr.	6,16				
MAY/MAI	7.0	0.8	7.8	54.6	2.5	57.2	1.8	26	3.0	28	0.8	6	0.8	6
JUN/JUIN	44.6		44.6	80.3	Tr.	80.3	17.6	27	19.8*	27				
JUL/JUIL	23.7		23.7	80.3	0.0	80.3	12.2	20	12.2	20				
AUG/AOÛT	109.8		109.8	73.7	0.0	73.7	25.0	3	25.7*	3				
SEPT/SEP	85.6		85.6	52.6	0.3	52.6	15.2	3	17.6*	3				
OCT/OCT	29.5	3.5	33.0	29.2	5.6	34.8	10.5	16	11.9*	16	2.6	23	2.8*	23*
NOV/NOV	4.3	20.7	25.0	7.1	21.3	27.2	2.0	3	2.0	3	10.7	8	12.8	8*
DEC/DÉC	2.8	8.8	11.0	0.8	23.9	22.9	1.9	17	2.1	17*	1.8	15	2.7	15
YEAR ANNÉE	307.3	101.4	405.3	411.2	131.3	535.2	25.0	3 Aug.	25.7	3* Aug.	12.8	10 Jan.	18.6	10 Jan.

\* Jan. 10-11 - 18.8 cm snow \* Sept. 3-4 - 18.0 mm rain  
 Feb. 21-22 - 7.0 cm snow Oct. 16-17 - 19.5 mm rain  
 June 27-28 - 29.0 mm rain Oct. 22-23 - 3.3 cm snow  
 Aug. 3-4 - 28.0 mm rain (Nov. 8th to Nov. 9th as well as Nov. 8)  
 12.8 cm snow  
 Dec. 16-17 - 2.8 mm rain

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YEAR/ANNÉE: 1980

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY MAXIMUM TEMPERATURES - 1980 (°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	-7.8	-17.7	-14.6	4.9	29.2	16.1	22.6	25.8	21.4	17.0	0.7	-20.1
2	-18.8	-11.2	-7.5	4.9	30.6	18.5	30.4	24.6	20.6	7.5	11.9	-17.5
3	-10.8	-8.9	-8.5	6.7	31.9	23.9	28.0	25.1	21.8	10.2	8.8	-7.3
4	-10.0	-7.5	-16.7	11.8	27.5	25.4	19.4	20.4	19.9	10.3	6.5	-1.6
5	-13.2	-5.7	-11.5	12.8	20.5	27.5	25.1	20.3	23.0	18.8	16.0	-0.2
6	-10.9	-5.6	-12.2	17.7	7.8	20.9	28.6	21.6	28.2	19.6	6.8	-12.2
7	-19.8	-9.9	-10.3	5.8	8.7	17.2	25.5	23.5	33.3	24.3	-1.0	-16.8
8	-25.6	-9.1	-6.5	4.8	14.6	22.7	28.6	23.3	23.6	16.2	1.1	-12.0
9	-23.2	-1.7	-3.8	5.7	18.2	25.0	33.5	22.0	17.3	18.7	-2.8	-12.5
10	-17.6	-7.0	-16.7	8.0	11.4	26.0	31.6	21.0	26.0	10.2	-2.4	-21.6
11	-19.0	-10.3	-12.1	7.3	11.0	32.3	29.0	22.4	21.4	4.6	2.2	-11.1
12	-8.5	-11.9	-5.0	6.8	10.5	25.3	29.4	24.0	13.5	5.2	0.7	-6.4
13	0.0	-11.2	-9.2	9.8	10.7	23.8	34.8	23.0	18.5	8.3	1.4	-7.4
14	-5.6	-15.0	-7.0	15.0	14.7	18.0	24.3	24.2	18.7	5.6	3.5	-12.2
15	-1.2	-13.9	2.2	7.9	22.3	21.5	25.2	25.2	18.0	5.4	1.8	-8.5
16	-10.0	-13.6	-1.5	19.2	24.8	27.7	26.5	17.8	10.7	6.6	0.4	-0.9
17	-9.8	-8.5	-6.9	22.0	26.7	19.9	27.6	17.3	4.7	2.8	-0.3	2.7
18	-7.4	-8.2	-0.6	29.9	23.0	19.9	26.8	27.0	11.0	4.8	5.2	-14.8
19	-9.1	-10.7	0.8	20.5	31.5	25.5	25.0	30.7	7.0	5.5	3.6	-23.0
20	-8.8	-11.0	-2.6	32.2	32.4	27.8	22.7	22.7	10.4	10.8	0.7	-18.3
21	-5.0	-11.0	-4.0	34.3	36.5	27.0	22.8	22.5	13.0	7.5	4.2	-14.0
22	-14.3	-11.5	-2.0	17.8	37.0	34.4	27.2	22.1	10.0	4.9	4.4	-14.8
23	-14.2	-9.2	1.4	13.9	33.6	33.7	32.5	23.5	7.9	2.0	-3.7	-16.4
24	-13.3	-15.2	1.4	16.3	32.7	31.0	27.0	28.9	8.3	1.8	3.9	-23.0
25	-22.6	-16.2	3.1	20.1	33.0	25.2	23.1	21.1	7.3	2.5	-3.2	-14.7
26	-19.9	-6.4	1.9	22.0	30.4	19.9	26.2	18.5	14.5	5.5	1.4	-13.0
27	-18.2	-12.8	0.9	24.1	32.8	20.1	28.3	21.4	12.1	2.8	-0.5	6.4
28	-22.6	-20.0	3.5	26.5	26.2	17.2	27.0	18.6	20.9	4.3	0.5	1.9
29	-22.8	-22.6	5.2	26.6	26.5	22.0	31.8	20.4	19.2	6.3	1.8	-4.9
30	-22.6		8.0	27.7	21.2	26.0	28.4	20.4	25.2	11.0	-2.0	-3.4
31	-18.6		6.0		20.0		28.6	19.5		4.6		0.0
AVG	-13.9	-11.2	-4.0	16.1	23.8	24.0	27.3	22.5	16.9	8.6	2.4	-10.3

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METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY MEAN TEMPERATURES - 1980 (°C)												
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	-13.8	-24.1	-22.7	-0.2	18.8	10.0	15.4	19.3	15.3	10.6	-3.6	-22.6
2	-22.2	-19.2	-12.3	-1.1	18.9	9.7	21.1	17.1	14.2	3.5	5.2	-21.5
3	-17.9	-13.5	-16.1	0.6	21.6	13.4	20.9	18.7	17.2	6.6	3.6	-12.7
4	-14.9	-8.7	-21.9	5.3	18.0	20.5	15.9	16.2	15.7	6.5	1.4	-4.5
5	-14.2	-7.0	-18.0	4.9	11.7	21.6	17.1	15.8	15.7	11.1	7.0	-6.4
6	-15.4	-7.8	-17.3	10.6	2.8	13.4	22.6	16.1	20.1	10.8	2.6	-16.2
7	-23.6	-15.5	-18.8	3.2	3.1	11.5	20.3	18.9	23.3	15.2	-2.3	-18.9
8	-28.6	-16.6	-11.3	0.9	5.0	14.9	19.6	18.1	15.5	9.4	-0.9	-16.2
9	-27.4	-8.2	-11.8	-0.2	10.6	17.4	26.3	15.5	11.7	12.4	-8.6	-18.0
10	-20.5	-9.1	-19.9	0.9	4.8	15.3	24.9	16.2	17.9	5.8	-9.4	-24.6
11	-24.0	-14.6	-20.4	2.4	5.6	23.5	23.3	15.5	14.6	1.2	-0.9	-16.6
12	-19.7	-16.6	-9.1	0.7	3.3	20.7	22.6	19.1	12.1	1.8	0.1	-13.9
13	-9.3	-16.1	-15.7	1.9	6.1	17.3	26.2	17.2	12.4	2.9	-0.4	-14.8
14	-12.7	-18.6	-16.5	8.0	9.0	11.9	19.4	17.2	11.8	4.4	-1.9	-16.7
15	-5.7	-18.6	-2.5	1.2	11.9	11.2	18.8	18.3	11.9	4.8	-4.2	-13.5
16	-14.5	-17.7	-6.7	11.2	15.6	16.9	20.7	15.1	6.5	3.7	-5.2	-10.8
17	-15.2	-15.3	-12.2	11.7	17.0	15.1	21.2	15.0	2.5	1.5	-5.2	-6.3
18	-10.8	-11.8	-11.3	18.7	15.1	12.7	21.2	18.2	3.4	0.8	0.4	-19.4
19	-12.1	-14.4	-2.2	11.2	19.9	14.8	19.3	22.8	4.8	3.8	0.2	-24.5
20	-12.8	-14.0	-9.0	22.1	23.7	19.3	18.0	20.9	7.0	5.7	-1.9	-22.4
21	-9.8	-15.2	-10.4	21.8	25.9	19.5	18.0	18.0	10.6	2.5	-0.3	-20.8
22	-20.9	-13.3	-7.6	9.8	27.9	25.1	19.9	16.8	5.0	0.6	0.3	-18.6
23	-22.0	-13.4	-5.8	5.9	26.3	25.4	24.5	18.0	3.7	0.2	-7.7	-23.2
24	-18.3	-21.2	-6.1	6.0	24.8	25.6	18.1	20.5	4.8	-0.2	-3.6	-26.7
25	-27.1	-23.6	-1.0	9.3	25.5	18.2	14.3	15.5	3.4	-1.6	-5.0	-21.0
26	-24.7	-13.3	-1.6	10.9	23.4	14.6	17.6	12.3	7.1	-0.1	-2.2	-20.6
27	-21.0	-18.4	-3.4	13.3	23.8	16.1	21.3	12.5	5.1	-2.5	-4.3	-3.3
28	-25.5	-24.8	-3.6	14.0	21.1	14.8	20.4	15.7	13.6	-2.3	-1.7	-6.6
29	-27.6	-28.9	0.2	15.8	18.5	16.8	22.1	15.6	13.2	-0.1	-0.8	-9.1
30	-26.5		3.4	16.4	13.7	18.8	21.1	15.7	17.1	7.2	-11.8	-4.3
31	-23.3		1.2		12.1		21.6	13.2		-0.9		-4.6
AVG.	-18.8	-15.9	-10.0	7.9	15.7	16.8	20.4	16.9	11.2	4.1	-2.0	-15.5

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METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY SNOWFALL - 1980 (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	0.6	Tr.	Tr.									
2			0.2							Tr.		
3	Tr.		3.0							Tr.		1.1
4	0.2	1.4										Tr.
5	2.1	Tr.										0.4
6	7.5	Tr.			0.8							Tr.
7	0.2	0.4									4.1	0.4
8	Tr.										12.8	Tr.
9	Tr.	3.8	2.8								0.6	0.6
10	18.6	1.4								Tr.		
11	0.6	0.5	0.8								0.2	0.8
12			6.0									0.2
13		Tr.										Tr.
14		Tr.	Tr.									
15		0.4										2.7
16			Tr.									0.4
17	Tr.									Tr.		0.4
18	Tr.	Tr.								0.2		0.2
19		2.0										Tr.
20		Tr.										
21	0.6	6.4										0.4
22	Tr.	0.8	Tr.							0.5	Tr.	Tr.
23	2.2	1.2								2.8	Tr.	0.4
24	1.5	0.2								Tr.		
25	Tr.									Tr.	Tr.	0.4
26	0.4		0.8									Tr.
27	0.8		Tr.									Tr.
28	Tr.									3.0		
29	0.2									Tr.		
30	Tr.									Tr.		Tr.
31	Tr.											0.4
TOTAL	35.5	18.5	13.6		0.8					3.5	20.7	8.8

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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 DEC	YEAR ANNÉE
MEASURABLE RAIN PLUIE, MESURABLE	0	0	0	0	5	7	8	16	15	6	3	2	62
RAIN (Trace or More) PLUIE (Trace ou davantage)	2	0	1	2	8	14	21	19	18	12	5	4	106
MEASURABLE SNOW NEIGE, MESURABLE	13	11	6	0	1	0	0	0	0	3	5	14	53
SNOW (Trace or More) NEIGE (Trace ou davantage)	23	18	11	0	1	0	0	0	0	9	10	23	95
MEASURABLE PRECIPITATION PRÉCIPITATION, MESURABLE	12	11	5	0	6	7	8	16	15	8	6	14	108
PRECIPITATION (Trace or More) PRÉCIPITATION (Trace ou davantage)	24	18	12	2	8	14	21	19	18	14	11	23	184
THUNDERSTORMS ORAGES	0	0	0	1	2	3	7	6	3	0	0	0	22
HAIL GRÊLE	0	0	0	0	0	1	0	0	0	0	0	0	1
ICE PELLETS GRANULES DE GLACE	0	0	0	0	0	0	0	0	0	1	0	2	3
FREEZING PRECIPITATION PRÉCIPITATION VERGLACANTE	2	0	0	0	0	0	0	0	0	1	3	4	10
FOG* BROUILLARD*	2	1	3	1	1	0	1	1	1	0	0	3	14
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 30°C OR MORE/OU PLUS	0	0	0	2	11	4	6	1	1	0	0	0	25
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 0°C OR LESS/OU MOINS	31	29	20	0	0	0	0	0	0	0	8	28	116
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE 0°C OR LESS/OU MOINS	31	29	31	16	5	0	0	0	6	15	30	31	194
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE -15°C OR LESS/OU MOINS	28	24	17	0	0	0	0	0	0	0	2	25	96

\*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

SEVERE WEATHER - 1980

- April 6 - About 9:45 p.m. marble size hail over St. Vital. Tornado 6:35 p.m. at Altona, some property damage. Funnel cloud at Emerson.
- April 22 - Huge chunks of ice crashed cottages on Lake Man. as strong winds blew ice on shore.
- May 28 - Funnel cloud reported SW of Steinbach. Tornado about 9:30 p.m. 10 mi south of Morden, touched down briefly, no damage. Tornado near Niverville, Manitoba, ripped up hydro poles along #59 Highway, garage moved 10 ft, some walls collapsed.
- June 12 - Severe down draft in cloud near Anola about 4 a.m., especially at Ridgeland Hutterite Colony caused hail golf-ball size, uprooted hydro poles, destroyed animals, farm equipment.
- June 20 - Unconfirmed funnel clouds near and in Winnipeg, hail up to golf ball size. Air Canada plane skidded off runway during storm.
- July 22 - Funnel cloud 5 to 8 mi north Gillam, Manitoba.
- July 23 - Funnel cloud near Armar about 8 p.m.
- July 26 - Tornado reported south of Fairford Indian Reserve about 5:55 p.m. Funnel clouds northeast Beausejour and at Libau about 8:30 p.m. Hail reported near Beausejour, Riverton and Gimli.
- Aug. 10 - Water spout 20 mi north of Gimli in afternoon. Funnel clouds 5 mi northwest of Beausejour and south-southeast of Victoria Beach.
- Aug. 11 - Funnel cloud in evening south of Letellier.
- Aug. 19 - In evening men killed by lightning near Winkler, hail and power outages at Riverton, 2" hail at Hodgson dented cars.
- Aug. 19 - 121 mm rain fell at Vogan and 132 mm at Ashern (24-hour period).
- Aug. 26 - Tornado reported in evening south of Lansdowne House.
- Sept. 3 - Niverville, Manitoba, had 16 mm rain in 45 minutes. Streets, fields, flooded about 12:20 p.m. At Morden 7 p.m. CST 4" tree branches scattered.
- Sept. 12 - Heavy downpour southern Manitoba, Sept. 11-12, 24 hours ending at 7 a.m. on 12th.
- |               |   |         |
|---------------|---|---------|
| Peace Gardens | - | 71.4 mm |
| Deloraine     | - | 114 mm  |
| Goodlands     | - | 150 mm  |
- Water flowed over Highway #21.