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and Environment
Canada

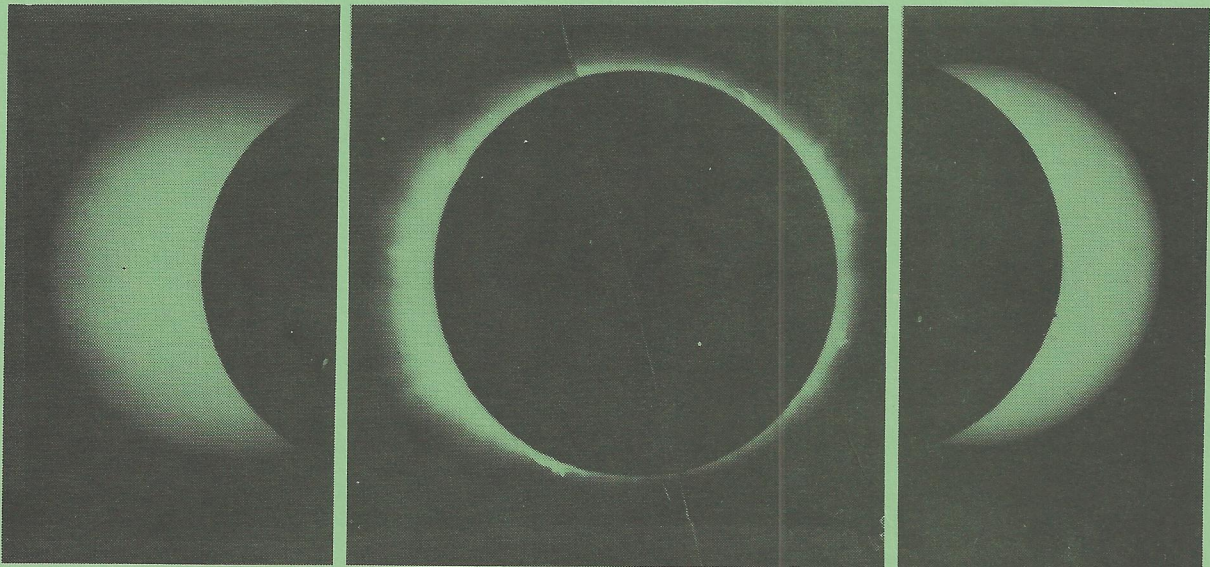
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WINNIPEG MANITOBA

ANNUAL METEOROLOGICAL SUMMARY 1979 SOMMAIRE METEOROLOGIQUE ANNUEL



PHASES OF TOTAL ECLIPSE OF THE SUN AT WINNIPEG, CANADA
ON FEBRUARY 26, 1979

--- Photos by JAY ANDERSON and HARRY EWEN

UDC: 551.506.1
551.506.3

ANNUAL METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE ANNUEL

for/pour

YEAR/ANNÉE 1979

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
NOTE: The following units are used throughout this summary -						AVIS: Unités Utilisées -						
Temperature: Degrees and tenths Celcius (°C)						Température: Degrés et dixième Celsius (°C)						
Degree Day: Difference of Daily Mean Temperature from 18.0°C						Degré Jour: Différence entre la température moyenne du jour et 18.0°C						
Rain: Millimetres and tenths (mm)						Pluie: Millimetres et dixièmes (mm)						
Snow: Centimetres and tenths (cm)						Neige: Centimetres et dixièmes (cm)						
Total Precipitation: Millimetres and tenths (mm)						Précipitation Totale: Millimetres et dixièmes (mm)						
Wind Speed: Kilometres per hour (km/h)						Vitesse du vent: Kilomètres par heure (km/h)						
Wind Direction: Direction (true north) from which the wind is blowing.						Direction du vent: Direction (nord géographique) d'où le vent souffle.						
Barometric Pressure: Kilopascals and hundredths (kPa)						Pression Barométrique: Kilopascals et centièmes (kPa)						
Sunshine: Hours and tenths of bright sunshine.						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	-17.8	-27.1	-22.5	-13.4	-23.2	-18.3	-5.2	20	-37.7	12	1255.7	1125.6
FEB/FÉV	-16.8	-27.2	-22.0	-10.4	-21.1	-15.7	-7.2	26	-38.8	16	1119.9	953.1
MAR/MAR	-5.1	-14.6	-9.9	-2.9	-13.3	-8.1	4.2	22	-26.6	10	864.2	809.8
APR/AVR	3.9	-5.1	-0.6	8.6	-1.9	3.3	14.6	18	-26.3	2	558.3	441.1
MAY/MAI	12.6	2.0	7.3	17.1	4.1	10.6	27.2	16, 28	-2.9	3, 15	330.3	236.3
JUN/JUIN	22.7	9.6	16.2	22.7	10.3	16.5	34.0	13	3.8	11	76.7	75.5
JUL/JUIL	27.5	14.3	20.9	25.9	13.5	19.7	32.7	9	7.0	16	12.4	20.9
AUG/AOÛT	22.9	9.8	16.4	25.0	12.2	18.7	29.5	20	4.0	15	69.9	37.5
SEPT/SEP	19.3	6.6	13.0	18.4	6.6	12.6	32.8	16	1.3	30	158.0	174.8
OCT/OCT	9.7	-1.1	4.3	11.9	1.1	6.6	21.4	15	-10.6	13	424.0	355.7
NOV/NOV	-1.2	-8.7	-5.0	-0.5	-8.4	-4.4	7.5	16	-18.1	13	688.6	674.1
DEC/DÉC	-4.9	-14.7	-9.8	-9.2	-18.2	-13.7	2.0	3	-28.4	16	862.8	983.0
YEAR ANNÉE	6.1	-4.7	0.7	7.8	-3.2	2.3	34.0	13	-38.8	16	6420.8	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	Nil	9.3	9.0	0.3	24.9	23.6	Nil		Nil		1.6	25	2.2	29*
FEB/FÉV	Nil	20.9	20.1	0.8	19.8	19.1	Nil		Nil		4.4	13	6.0	13*
MAR/MAR	8.1	38.1	45.3	6.1	21.1	26.2	4.4	20	4.4	20*	8.0	13	8.8	13*
APR/AVR	47.8	22.7	73.5	25.4	11.9	37.3	9.2	12	12.4	24*	4.4	12	6.2	4
MAY/MAI	82.6	8.3	93.1	54.6	2.5	57.2	13.7	30	25.2	30*	2.4	10	4.4	10*
JUN/JUIN	65.1	--	65.1	80.3	Tr.	80.3	19.2	20	33.1	20	--	--	--	--
JUL/JUIL	23.1	--	23.1	80.3	0.0	80.3	6.3	14	10.4	23	--	--	--	--
AUG/AOÛT	76.1	--	76.1	73.7	0.0	73.7	40.0	1	40.8	1	--	--	--	--
SEPT/SEP	24.9	--	24.9	52.6	0.3	52.6	8.0	1	10.6	1	--	--	--	--
OCT/OCT	13.6	1.8	15.4	29.2	5.6	34.8	3.3	10	3.5	10*	1.8	31	1.8	31
NOV/NOV	0.6	16.2	14.6	7.1	21.3	27.2	0.6	14	0.6	14	2.0	11	2.7	1*
DEC/DÉC	1.0	10.5	11.3	0.8	23.9	22.9	0.4	10	0.6	4	3.4	10	3.8	10
YEAR ANNÉE	342.9	127.8	471.5	411.2	131.3	535.2	40.0	1	40.8	1	8.0	13	8.8	13*

*Jan.	29-30	-	2.2 cm snow	*Apr.	24-25	-	12.6 mm rain
Feb.	22-23	-	6.4 cm snow	May	29-30	-	39.3 mm rain
Mar.	19-20	-	7.3 mm rain	May	10-11	-	7.2 cm snow
Mar.	12-13	-	9.2 cm snow	Oct.	19-20	-	5.4 mm rain
Mar.	27-28	-	10.1 cm snow	Nov.	1-2	-	3.3 cm snow

ANNUAL METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE ANNUEL

for/pour WPG INT'L AIRPORT / AEROPORT INTERN. DE WPG. YEAR/ANNÉE: 1979

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY MAXIMUM TEMPERATURES - 1979 (°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	-25.4	-19.9	-9.0	-8.6	8.0	15.0	27.2	29.3	23.4	15.2	-0.2	-10.1
2	-19.2	-22.5	-10.9	-7.1	1.4	20.0	26.3	25.2	14.4	18.4	1.5	-1.3
3	-18.0	-22.9	-5.8	-4.5	1.5	23.2	26.4	18.9	17.0	8.9	2.0	2.0
4	-24.0	-25.4	-4.7	-2.0	7.0	17.6	28.9	21.4	25.6	15.7	2.0	1.3
5	-21.2	-18.5	-5.9	-8.8	7.2	20.2	28.0	23.0	24.4	14.0	-1.1	0.0
6	-16.6	-18.8	-0.2	-7.5	7.9	22.7	28.0	26.2	15.7	12.8	2.0	-0.6
7	-20.2	-25.5	-14.2	0.5	6.2	16.5	24.4	23.8	17.0	11.9	-2.0	-5.0
8	-12.9	-23.9	-8.0	-2.0	5.5	19.0	30.3	23.2	22.8	7.9	-7.5	-8.0
9	-25.0	-24.6	-15.2	1.0	2.3	19.7	32.7	22.8	18.4	7.8	-5.2	-6.0
10	-25.4	-17.7	-10.6	4.3	3.6	22.5	32.5	21.6	15.4	9.0	-7.5	-5.0
11	-25.8	-19.4	-8.5	5.2	4.8	23.1	32.2	24.4	19.5	4.8	-7.2	-15.1
12	-25.2	-20.4	0.0	3.8	16.0	27.5	31.7	22.4	15.6	3.7	-1.5	-8.2
13	-25.7	-14.2	-5.0	1.5	11.5	34.0	27.7	13.9	13.5	5.6	-2.5	-6.8
14	-24.5	-13.6	-14.0	2.3	12.5	27.7	24.6	17.6	21.3	18.7	1.2	-1.8
15	-26.1	-25.4	-8.4	4.9	15.9	21.8	20.8	20.7	24.3	21.4	0.7	-13.9
16	-20.0	-26.0	2.4	5.7	27.2	21.0	24.5	21.1	32.8	12.2	7.5	-19.2
17	-20.3	-14.3	2.8	11.8	19.5	24.6	28.2	25.5	21.7	14.0	6.8	-11.8
18	-8.3	-13.8	1.6	14.6	6.2	25.7	29.5	28.9	13.8	13.8	7.4	-4.5
19	-6.7	-11.1	0.5	11.3	10.2	21.3	28.4	28.9	23.1	7.5	1.8	0.0
20	-5.2	-11.2	-0.8	8.7	12.4	21.5	32.5	29.5	16.5	10.6	3.7	1.3
21	-5.8	-9.6	0.5	10.4	18.0	12.3	28.5	21.2	18.0	4.9	3.8	-2.3
22	-13.7	-7.6	4.2	9.4	18.9	18.0	30.2	21.6	17.4	3.6	3.3	-2.8
23	-17.6	-9.1	-5.8	9.4	14.9	22.3	25.6	13.1	20.4	3.1	-5.2	-3.8
24	-16.0	-17.3	-4.9	4.0	21.4	24.8	27.1	21.6	21.6	4.5	-4.8	-5.6
25	-12.0	-8.1	-6.1	5.6	18.8	26.4	22.9	20.2	21.5	5.6	-4.5	-4.0
26	-13.3	-7.2	-8.9	7.1	19.3	23.4	22.6	22.9	25.8	9.3	-5.1	-4.0
27	-15.2	-7.5	-7.7	8.5	22.6	27.0	26.0	25.9	15.2	11.2	-5.5	-3.2
28	-14.9	-13.6	-5.5	10.2	27.2	25.8	29.9	26.8	10.8	11.0	-5.7	-1.0
29	-14.7		-2.1	8.9	19.2	28.9	26.7	19.8	17.0	6.0	-6.8	-3.2
30	-16.1		-2.9	7.8	10.0	27.7	21.8	22.0	16.4	6.2	-6.6	-3.0
31	-18.2		-4.6		14.7		25.0	25.6		2.6		-7.8
AVG.	-17.8	-16.8	-5.1	3.9	12.6	22.7	27.5	22.9	19.3	9.7	-1.2	-4.9

for/pour WPG INT'L AIRPORT / AEROPORT INTERN. DE WPG. YEAR/ANNÉE: 1979

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUES POUR L'ANNÉE												
DAILY MEAN TEMPERATURES - 1979 (°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	-30.0	-23.5	-11.4	-14.8	4.6	10.5	22.0	21.2	18.9	9.7	-1.6	-13.6
2	-22.9	-26.8	-12.7	-16.7	-0.6	14.6	22.3	18.2	12.7	12.9	0.3	-7.5
3	-23.1	-28.5	-13.8	-11.6	-0.7	17.5	20.9	13.6	12.7	4.5	0.0	-3.2
4	-26.8	-30.8	-11.9	-6.1	2.2	12.3	21.5	15.8	20.1	6.3	-2.5	-3.8
5	-25.9	-22.6	-11.4	-13.8	2.6	13.4	21.8	15.0	16.8	7.1	-2.3	-3.0
6	-22.7	-25.1	-11.1	-16.2	3.3	17.6	22.0	20.1	10.5	5.0	-1.4	-4.4
7	-25.0	-29.6	-19.8	-3.5	3.9	12.0	19.3	17.5	9.5	5.9	-8.5	-11.7
8	-20.5	-29.6	-11.7	-4.0	2.9	11.7	24.2	15.5	15.9	4.2	-11.8	-13.5
9	-28.7	-27.8	-19.6	-3.3	0.6	13.8	25.5	18.1	12.7	3.4	-11.1	-8.5
10	-29.1	-21.5	-18.6	-1.7	1.5	14.9	24.3	15.1	12.0	4.2	-10.8	-10.2
11	-30.5	-23.9	-12.6	1.0	2.0	13.5	25.3	15.8	14.1	1.2	-10.0	-21.5
12	-31.5	-26.8	-4.7	1.9	7.8	19.4	26.1	16.9	11.8	-1.9	-8.1	-17.7
13	-29.0	-23.5	-10.0	1.0	6.4	25.0	22.1	9.7	9.1	-2.5	-10.3	-15.5
14	-28.6	-19.6	-18.7	1.2	5.5	21.3	19.2	11.1	11.8	11.4	-3.9	-13.4
15	-30.6	-29.2	-14.8	1.6	6.5	15.7	15.5	12.4	15.8	12.0	-0.3	-20.9
16	-26.8	-32.4	-4.3	1.4	17.5	13.6	15.8	15.9	22.7	6.1	2.9	-23.8
17	-25.7	-22.7	2.1	5.9	11.8	15.4	20.2	19.9	14.8	5.3	2.0	-19.4
18	-16.4	-16.1	0.2	9.7	3.9	18.2	22.9	21.2	7.7	8.2	1.8	-9.0
19	-9.2	-14.1	-0.8	6.7	5.1	17.9	22.6	20.4	14.1	2.2	-0.7	-7.0
20	-8.2	-15.6	-2.2	4.8	7.6	16.1	24.5	20.3	10.3	6.3	-1.9	-0.9
21	-9.9	-14.2	-1.7	5.2	10.0	10.2	22.2	18.5	10.3	1.8	-2.9	-5.6
22	-20.2	-12.0	-1.2	5.4	11.6	11.6	20.4	16.2	11.5	0.0	-2.4	-3.7
23	-21.7	-18.0	-9.2	4.7	8.3	13.7	21.0	11.3	11.7	1.6	-8.2	-4.8
24	-22.2	-24.2	-9.5	2.5	12.9	17.4	20.5	14.3	13.8	-0.9	-6.8	-6.1
25	-14.0	-13.6	-8.3	1.9	14.8	20.6	16.4	13.5	14.5	-0.7	-6.9	-5.5
26	-18.7	-10.3	-12.7	1.5	13.8	17.9	15.4	16.6	16.1	5.8	-6.4	-8.5
27	-20.4	-14.8	-12.7	2.6	14.0	18.4	18.7	17.6	10.2	5.2	-7.7	-9.0
28	-17.7	-19.1	-12.0	5.5	18.6	20.3	22.3	20.0	6.9	4.6	-9.1	-5.6
29	-17.1		-10.4	4.9	13.9	21.7	21.0	13.0	11.8	1.5	-9.5	-8.0
30	-21.1		-8.7	4.0	7.3	20.0	16.3	13.3	8.9	2.5	-10.5	-8.8
31	-23.5		-12.0		8.7		16.2	19.6		1.1		-10.7
AVG.	-22.5	-22.0	-9.9	-0.6	7.3	16.2	20.9	16.4	13.0	4.3	-5.0	-9.8

for/pour WINNIPEG INT'L AIRPORT/AEROPORT INTERN. DE WPG. YEAR/ANNÉE: 1979

METEOROLOGICAL DATA FOR THE YEAR / DONNÉES MÉTÉOROLOGIQUE POUR L'ANNÉE												
DAILY SNOWFALL - 1979 (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.	1.7	2.5	Tr.						2.7	Tr.
2	Tr.				0.8						1.3	Tr.
3	Tr.	0.6		Tr.	Tr.						Tr.	
4	Tr.	Tr.		6.2	Tr.							Tr.
5	Tr.	1.8			Tr.						Tr.	1.5
6	0.2	0.2	0.4		Tr.							Tr.
7	Tr.		Tr.	0.8	Tr.						1.6	0.2
8	0.8	Tr.	1.8	0.3	0.3						Tr.	2.0
9	Tr.	Tr.	0.5								0.2	Tr.
10	Tr.	1.6	0.2		4.4						0.4	3.8
11	Tr.	Tr.			2.8						2.2	0.8
12	Tr.	2.4	0.4	5.8						Tr.	0.8	Tr.
13	Tr.	6.0	8.8	0.7							Tr.	1.6
14		0.4	Tr.	1.4							0.2	0.2
15	Tr.	Tr.										0.2
16	1.2	Tr.										
17	Tr.	Tr.										
18					Tr.							
19	Tr.		Tr.									
20	1.2	Tr.	2.0									
21	0.2	1.3	0.4									Tr.
22	Tr.	4.2								Tr.		Tr.
23	0.2	2.2									Tr.	Tr.
24	0.2	Tr.	Tr.	Tr.							2.2	0.2
25	1.6	0.2	3.0	1.0							1.4	
26	Tr.		0.2								0.4	
27	Tr.	Tr.	8.5								2.2	
28	0.3	Tr.	1.6								0.4	
29	2.2		7.0	1.2							0.2	
30	0.6		Tr.	2.8							Tr.	
31	Tr.		1.6							1.8		Tr.
TOTAL	9.3	20.9	38.1	22.7	8.3					1.8	16.2	10.5

ANNUAL METEOROLOGICAL SUMMARY
SOMMAIRE MÉTÉOROLOGIQUE ANNUEL

for/pour WPG INT'L AIRPORT / AEROPORT INTERN., DE WPG.

YEAR/ANNÉE: 1979

METEOROLOGICAL DATA FOR THE YEAR/DONNÉES MÉTÉOROLOGIQUES 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	2	9	14	10	7	10	10	9	1	2	74
RAIN (Trace or More) PLUIE (Trace ou davantage)	0	0	6	12	15	17	13	16	15	15	3	7	119
MEASURABLE SNOW NEIGE, MESURABLE	12	11	15	10	4	0	0	0	0	1	14	9	76
SNOW (Trace or More) NEIGE (Trace ou davantage)	29	23	20	12	11	0	0	0	0	3	20	19	137
MEASURABLE PRECIPITATION PRÉCIPITATION, MESURABLE	12	11	16	15	17	10	7	10	10	9	13	10	140
PRECIPITATION (Trace or More) PRÉCIPITATION (Trace ou davantage)	29	23	22	18	20	17	13	16	15	16	22	20	231
THUNDERSTORMS ORAGES	0	0	0	2	1	8	6	6	2	0	0	0	25
HAIL GRÊLE	0	0	0	0	0	0*	0	1	0	0	0	0	1
ICE PELLETS GRANULES DE GLACE	0	0	3	3	0	0	0	0	0	0	0	3	9
FREEZING PRECIPITATION PRÉCIPITATION VERGLACANTE	0	0	5	0	0	0	0	0	0	0	0	7	12
FOG* BROUILLARD*	5	3	2	4	0	0	0	1	2	1	1	5	24
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 30°C OR MORE/OU PLUS	0	0	0	0	0	1	7	0	1	0	0	0	9
MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE 0°C OR LESS/OU MOINS	31	28	25	7	0	0	0	0	0	0	17	28	136
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE 0°C OR LESS/OU MOINS	31	28	30	20	12	0	0	0	0	22	30	31	204
MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE OR LESS/OU MOINS -15.0°	28	27	17	5	0	0	0	0	0	0	3	11	91

*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 June 20, 1979, Funnel clouds reported near Gretna and Altona. June 28, 1979, funnel clouds reported east of Portage La P. July 11 - funnel cloud near Pine Falls. Tornado at The Pas. August 1 - tornado at Francis Xavier. September 4 - tornado at Fairford, Manitoba.