

ANNUAL METEOROLOGICAL SUMMARY / sommaire meteorologique annuel

FOR / pour: **WINNIPEG INTL ARPRT, MB.**

YEAR / anne: **1999**

Meteorological Data for the year / donnees meteorologique pour l'annee												
Daily Total Precipitation / precipitations totales quotidiennes (mm)												
	Jan janv	Feb fevr	Mar mars	Apr avril	May mai	Jun juin	Jul juil	Aug aout	Sep Sept	Oct Oct	Nov Nov	Dec dec
1	1.8	TR	0.4	8.4	0.0	TR	0.2	0.2	TR	0.0	1.2	0.0
2	2.0	0.0	TR	6.0	0.0	1.5	0.0	0.0	0.6	TR	0.0	2.0
3	TR	TR	0.0	11.0	0.2	1.0	0.4	TR	0.0	0.0	0.0	TR
4	TR	0.0	0.0	16.0	6.4	4.5	1.0	0.0	18.0	5.2	0.0	TR
5	TR	0.2	0.0	0.0	10.0	0.0	5.0	0.0	9.0	0.0	0.0	TR
6	0.0	TR	0.0	TR	0.2	TR	0.0	8.0	0.0	0.4	0.0	0.0
7	0.0	0.0	TR	TR	TR	2.2	0.0	1.0	2.5	0.2	0.0	0.0
8	0.0	1.5	14.0	0.0	0.0	0.0	23.6	1.2	0.2	0.2	0.0	0.0
9	0.4	TR	2.5	0.0	0.0	6.0	6.2	4.8	1.6	1.4	0.0	0.0
10	0.0	0.6	0.4	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.0	TR	TR	0.0	7.0	0.0	0.0	0.0	3.0	3.4	TR	TR
12	0.0	TR	0.0	0.0	3.6	0.5	0.8	0.0	5.6	TR	0.0	0.0
13	2.0	0.0	0.0	9.0	0.5	0.0	1.0	0.0	12.0	0.2	0.0	0.0
14	2.0	0.0	0.0	0.0	8.5	1.4	0.0	0.0	2.4	0.0	0.0	5.6
15	4.0	0.0	0.0	0.2	5.5	0.0	21.0	1.0	0.0	2.4	0.0	TR
16	0.0	0.0	0.0	TR	0.0	0.0	0.0	9.2	0.0	6.0	0.0	TR
17	0.0	0.0	2.0	TR	TR	0.0	0.0	10.4	TR	0.2	0.0	TR
18	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	4.6	0.0	TR
19	1.4	0.0	0.0	0.0	8.0	0.0	0.0	0.0	TR	TR	0.0	9.2
20	TR	0.0	0.0	0.0	4.5	TR	0.0	0.0	0.0	TR	0.0	0.4
21	0.0	TR	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.0	0.6	0.0	0.0	15.0	17.0	0.8	25.0	0.0	0.0	0.0	0.0
23	1.5	7.4	0.0	0.0	0.0	6.5	0.0	TR	0.0	0.0	0.0	1.0
24	TR	1.5	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	9.6	10.8	0.0	0.0	0.0	2.4	0.0
26	0.0	0.0	0.0	0.0	1.0	6.2	0.0	0.0	1.6	0.0	2.6	4.0
27	0.0	2.5	0.5	TR	0.0	0.0	0.0	0.0	TR	2.4	0.0	TR
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
29	0.0		0.5	0.0	TR	19.0	0.0	0.0	0.0	TR	0.0	0.6
30	0.0		0.0	0.0	9.0	8.8	0.0	TR	0.5	0.0	0.0	1.6
31	0.0		0.0		0.0		0.0	0.0		0.0		0.4

ANNUAL METEOROLOGICAL SUMMARY / sommaire meteorologique annuel

FOR / pour: **WINNIPEG INTL ARPRT, MB.**

YEAR / annee: **1999**

Meteorological Data for the year / donnees meteorologique pour l'annee												
Daily Rainfall / chutes du pluie quotidiennes (mm)												
	Jan janv	Feb fevr	Mar mars	Apr avril	May mai	Jun juin	Jul juil	Aug aout	Sep Sept	Oct Oct	Nov Nov	Dec dec
1	0.0	TR	0.2	0.0	0.0	TR	0.2	0.2	TR	0.0	0.8	0.0
2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.6	0.0	0.0	2.0
3	0.0	0.0	0.0	1.0	0.2	1.0	0.4	TR	0.0	0.0	0.0	TR
4	0.0	0.0	0.0	0.0	6.4	4.5	1.0	0.0	18.0	5.2	0.0	0.0
5	0.0	0.0	0.0	0.0	10.0	0.0	5.0	0.0	9.0	0.0	0.0	0.0
6	0.0	0.0	0.0	TR	0.2	TR	0.0	8.0	0.0	0.4	0.0	0.0
7	0.0	0.0	0.0	TR	TR	2.2	0.0	1.0	2.5	0.2	0.0	0.0
8	0.0	1.5	0.0	0.0	0.0	0.0	23.6	1.2	0.2	0.2	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	6.0	6.2	4.8	1.6	1.4	0.0	0.0
10	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	3.0	3.4	TR	0.0
12	0.0	0.0	0.0	0.0	3.6	0.5	0.8	0.0	5.6	TR	0.0	0.0
13	0.0	0.0	0.0	9.0	0.5	0.0	1.0	0.0	12.0	0.2	0.0	0.0
14	0.0	0.0	0.0	0.0	8.5	1.4	0.0	0.0	2.4	0.0	0.0	0.0
15	0.2	0.0	0.0	0.2	5.5	0.0	21.0	1.0	0.0	2.4	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	6.0	0.0	0.0
17	0.0	0.0	0.0	0.0	TR	0.0	0.0	10.4	TR	0.2	0.0	0.0
18	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.2	0.0	4.6	0.0	0.0
19	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	TR	0.0	0.0	TR
20	0.0	0.0	0.0	0.0	4.5	TR	0.0	0.0	0.0	TR	0.0	0.0
21	0.0	0.0	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	15.0	17.0	0.8	25.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	6.5	0.0	TR	0.0	0.0	0.0	1.0
24	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	9.6	10.8	0.0	0.0	0.0	1.0	0.0
26	0.0	0.0	0.0	0.0	1.0	6.2	0.0	0.0	1.6	0.0	0.0	0.0
27	0.0	1.5	0.5	TR	0.0	0.0	0.0	0.0	TR	2.4	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
29	0.0		0.5	0.0	TR	19.0	0.0	0.0	0.0	TR	0.0	0.6
30	0.0		0.0	0.0	9.0	8.8	0.0	TR	0.5	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0

ANNUAL METEOROLOGICAL SUMMARY / sommaire meteorologique annuel

FOR / pour: **WINNIPEG INTL ARPRT, MB.**

YEAR / anne: **1999**

Meteorological Data for the year / donnees meteorologique pour l'annee												
Daily Minimum Temperatures / temperatures minimales quotidiennes (C)												
	Jan janv	Feb fevr	Mar mars	Apr avril	May mai	Jun juin	Jul juil	Aug aout	Sep Sept	Oct Oct	Nov Nov	Dec dec
1	-27.5	-5.7	-4.0	-2.6	9.0	8.6	10.0	9.5	9.3	-3.9	-4.1	-4.2
2	-21.2	-9.0	-15.8	-3.0	12.1	9.6	7.9	7.1	5.9	-9.4	-7.5	-4.7
3	-29.3	-21.6	-18.5	-3.6	11.6	10.4	11.8	10.5	10.6	-6.9	-8.1	-6.5
4	-30.6	-24.6	-13.9	-2.4	14.5	15.0	13.7	11.1	10.6	-1.0	-3.9	-8.4
5	-26.5	-17.0	-18.0	-5.0	13.4	10.9	13.9	14.0	7.6	-2.2	-2.5	-8.9
6	-30.3	-23.2	-18.1	0.6	5.1	9.4	11.5	12.5	3.8	-2.6	-3.9	-6.7
7	-26.9	-13.5	-11.2	0.1	-0.8	12.8	8.6	7.0	13.1	-0.9	-0.6	-6.3
8	-29.7	-6.8	-5.1	-1.9	-2.7	14.0	13.2	4.1	7.6	1.1	-0.4	-7.1
9	-30.5	-16.4	-7.1	1.5	-4.2	13.2	12.1	14.9	6.7	5.2	-3.9	-9.3
10	-32.8	-11.6	-7.7	-0.6	3.3	10.5	11.5	11.5	5.7	1.1	-0.1	-4.6
11	-33.4	-13.7	-14.1	-2.2	4.7	8.6	14.7	9.5	3.4	-0.8	-3.0	-7.3
12	-37.0	-18.1	-14.9	-2.1	5.3	8.5	14.7	7.4	9.0	-0.2	-5.2	-10.0
13	-30.8	-18.4	-5.5	3.7	8.2	1.8	11.5	4.4	8.4	-3.8	1.4	-9.8
14	-20.9	-9.6	-4.4	0.7	9.7	0.8	13.5	8.9	2.5	3.7	-1.4	-10.7
15	-12.7	-10.6	-2.6	-2.6	9.6	2.8	13.7	15.6	0.5	4.7	-7.0	-24.4
16	-6.7	-15.6	-5.7	-3.2	7.4	0.9	8.4	14.5	4.0	2.4	-7.0	-28.0
17	-13.1	-19.2	-9.8	-2.5	1.9	5.8	5.7	12.3	8.6	-0.5	-2.3	-24.8
18	-24.9	-23.0	-13.5	-0.3	-0.5	12.4	9.1	12.1	7.0	1.2	-6.3	-11.0
19	-25.6	-15.7	-4.1	-3.9	9.2	11.0	14.1	10.7	-3.0	-4.5	-11.9	-20.6
20	-30.0	-12.6	-4.0	2.6	9.2	16.0	16.8	14.5	-3.9	-1.7	-6.3	-29.1
21	-23.8	-12.5	-5.7	-2.0	4.8	17.5	19.8	13.9	6.7	4.1	-2.9	-31.9
22	-9.1	-8.0	-3.6	-5.6	5.9	17.5	17.4	16.4	5.4	-5.8	-6.2	-29.6
23	-9.7	-4.0	-5.6	-3.6	4.0	15.3	16.1	14.6	1.1	-8.5	-8.6	-16.7
24	-19.5	-3.8	-8.8	3.7	2.4	8.6	13.3	12.2	5.6	-1.3	-10.0	-8.5
25	-21.3	-9.2	-6.1	5.3	1.1	5.2	15.7	16.5	5.9	-5.8	-9.1	-8.9
26	-21.5	1.1	0.3	5.4	5.0	12.0	12.4	15.3	5.3	-8.0	-3.2	-19.8
27	-14.0	-1.6	0.7	9.8	8.1	9.8	11.8	11.3	1.6	-0.2	-7.7	-25.9
28	-17.3	-4.3	-0.5	10.9	13.4	8.7	13.5	7.2	2.2	-4.5	-11.7	-2.9
29	-10.7		-0.6	6.3	11.7	8.8	13.9	4.2	-1.9	-2.0	-9.0	-16.7
30	-8.7		-3.2	5.5	5.5	10.2	13.5	14.9	2.9	-1.6	-3.7	-20.5
31	-8.7		-1.5		2.5		9.8	16.0		-1.5		-18.8

ANNUAL METEOROLOGICAL SUMMARY / sommaire meteorologique annuel

STATION NAME: WINNIPEG INTL ARPRT, MB.

YEAR / ANNEE: 1999

MONTHLY AND ANNUAL DEGREE DAYS / DEGREES-JOURS MENSUELS ET ANNUELS							NOTE: The following units are used ... Temperature: Degrees Celsius (C) Rain: Millimetres and tenths (mm) Snow: Centimetres and tenths (cm) Total Precipitation: Millimetres (mm) Wind Speed: Kilometres per hour (km/h) Wind Dir: Direction (True North) Sunshine: Hour and tenths of bright sun AVIS: Unites Utilisees Temperature: Degres et dixiemes Celsius (C) Pluie: Millimetres et dixiemes Neige: Centimetres et dixiemes Precipitation Totale: Millimetres (mm) Vitesse du vent: Kilometres Direction du vent: Direction (nord) Insolation: nombre des heures et dixiemes
MONTH mois	COOLING de chauffe	NORMAL norm	GROWING de crois sance	NORMAL norm	HEATING de refri geration	NORMAL norm	
Jan/jan	0.0	0.0	0.0	0.0	1106.1	1129.1	
Feb/fev	0.0	0.0	0.0	0.0	727.5	936.2	
Mar/mar	0.0	0.0	3.3	1.8	632.4	778.5	
Apr/avr	0.0	0.7	99.1	54.1	336.3	428.6	
May/mai	6.5	13.0	220.0	214.0	192.8	212.0	
Jun/jui	25.6	36.8	332.2	357.8	83.4	69.0	
Jul/jui	58.7	73.1	437.5	457.6	24.2	18.5	
Aug/aou	40.5	56.4	407.8	413.6	35.7	45.7	
Sep/sep	0.0	9.2	186.1	224.0	204.7	178.6	
Oct/oct	0.0	0.3	28.5	74.9	424.1	380.9	
Nov/nov	0.0	0.0	10.3	4.3	522.2	683.3	
Dec/dec	0.0	0.0	0.0	0.0	826.3	1013.7	
TOTAL	131.3	189.5	1724.8	1802.1	5115.7	5874.1	

MONTHLY AND ANNUAL EXTREMES OF RECORD / EXTREMES MENSUELS ET ANNUELS AUX REGISTRES														
MONTH mois	TEMPERATURE / temperature								PRECIPITATION / precipitations					
	ABSOLUT MAX	YEAR	ABSOLUT MIN	YEAR	HIGHEST MONTHLY MEAN	YEAR	LOWEST MONTH MEAN	YEAR	HIGHEST MONTH PRECIP	YEAR	LOWEST MONTH PRECIP	YEAR	HIGH MONTH SNOW	YEAR
JAN/jan	7.8	1942	-44.4	1877	-10.6	1944	-26.9	1875	85.30	1916	2.5	1973	85.3	1916
FEB/fev	11.7	1958	-45.0	1966	-5.1	1878	-26.1	1875	89.90	1881	0.2	1993	89.9	1881
MAR/mar	23.3	1946	-38.9	1873	1.6	1878	-16.1	1899	76.20	1904	1.5	1939	76.2	1904
APR/avr	34.3	1980	-27.8	1932	9.4	1915	-2.8	1893	143.30	1896	TR	1980	48.6	1997
MAY/mai	37.8	1934	-11.7	1907	17.8	1977	4.4	1907	177.70	1977	0.8	1917	32.5	1931
JUN/jui	38.3	1900	-6.1	1888	22.0	1988	12.3	1969	255.80	1901	3.3	1961	1.3	1875
JUL/jui	42.2	1936	1.1	1972	24.2	1936	15.4	1884	197.40	1953	13.5	1875	0.0	SVRL
AUG/aou	40.6	1949	-1.1	1910	22.5	1983	14.4	1977	218.00	1985	3.3	1915	0.0	SVRL
SEP/sep	38.8	1983	-8.3	1899	16.8	1948	8.0	1965	156.20	1872	1.3	1948	18.3	1872
OCT/oct	30.5	1992	-20.6	1936	12.8	1963	0.3	1887	144.00	1949	2.5	1976	38.6	1919
NOV/nov	23.9	1975	-36.7	1875	1.3	1923	-13.9	1896	90.20	1955	0.8	1976	80.3	1955
DEC/dec	11.7	1939	-47.8	1879	-3.4	1877	-25.9	1879	101.30	1909	2.5	1892	101.3	1909