

for/pour WINNIPEG "A"

YEAR/ANNÉE: 1988

MONTHLY AND ANNUAL EXTREMES OF RECORD/EXTRÊMES MENSUELS ET ANNUELS AUX REGISTRES															
MONTH MOIS	TEMPERATURE / TEMPÉRATURE								PRECIPITATION / PRÉCIPITATIONS						
	ABSOLUTE MAXIMUM ABSOLU	YEAR ANNÉE	ABSOLUTE MINIMUM ABSOLU	YEAR ANNÉE	HIGHEST MONTHLY MEAN MOYENNE MENSUELLE MAXIMALE	YEAR ANNÉE	LOWEST MONTHLY MEAN MOYENNE MENSUELLE MINIMALE	YEAR ANNÉE	GREATEST MONTHLY PRECIPITATION MENSUELLE MAXIMALE	YEAR ANNÉE	LEAST MONTHLY PRECIPITATION MENSUELLE MINIMALE	YEAR ANNÉE	GREATEST MONTHLY SNOW/FALL NEIGE MENSUELLE MAXIMALE	YEAR ANNÉE	
JAN/JANV	7.8	1942	-44.4	1877	-10.6	1944	-26.9	1875	85.3	1916	2.5	1973*	85.3	1916	
FEB/FÉVR	11.7	1958	-45.0	1966	-5.1	1878	-26.1	1875	89.9	1881	2.5	1903	89.9	1881	
MAR/MARS	23.3	1946	-38.9	1880*	1.6	1878	-16.1	1899	76.2	1904	1.5	1939	76.2	1904	
APR/AVR	34.3	1980	-27.8	1932	9.4	1915	-2.8	1893	143.3	1896	Tr.	1980	44.5	1872	
MAY/MAI	37.8	1934	-11.7	1907	17.8	1977	4.4	1907	177.7	1977	0.8	1917	32.5	1931	
JUN/JUIN	38.3	1900	-6.1	1888	22.0	1988	12.3	1969	255.8	1901	3.3	1961	1.3	1875	
JUL/JUILL	42.2	1936	1.1	1972	24.2	1936	15.4	1884	197.4	1953	13.5	1875			
AUG/AOÛT	40.6	1949	-1.1	1910*	22.5	1983	14.4	1977	218.0	1985	3.3	1915			
SEPT/SEPT	38.8	1983	-8.3	1899	16.8	1948	8.0	1965	156.2	1872	1.3	1948	18.3	1872	
OCT/OCT	30.0	1922	-20.6	1936	12.8	1963	0.3	1887	144.0	1949*	2.5	1976	38.6	1919	
NOV/NOV	23.9	1975	-36.7	1875	1.3	1923*	-13.9	1896	90.2	1955	0.8	1976	80.3	1955	
DEC/DÉC	11.7	1939	-47.8	1879	-3.4	1877	-25.9	1879	101.3	1909	2.5	1892	101.3	1909	

Note/Avis 1. Period of Record/Période de registre: 1872 - 1988
2. * Indicates most recent occurrence/Indique les données les plus récentes

for/pour WINNIPEG "A"

YEAR/ANNÉE: 1988

MONTHLY AND ANNUAL DEGREE-DAYS/DEGRÉS-JOURS MENSUELS ET ANNUELS										
MONTH MOIS	DEGREE-DAYS ABOVE/DEGRÉS-JOURS AU DESSUS DE					DEGREE-DAYS BELOW/DEGRÉS-JOURS AU DESSOUS DE				
	24 °C	18 °C	5 °C	0 °C	°C	0 °C	18 °C	°C	°C	°C
JAN/JANV	0	0	0	0		565.7	1123.7			
FEB/FÉVR	0	0	0	1.5		455.8	976.3			
MAR/MARS	0	0	0	13.2		153.1	697.9			
APR/AVR	0	1.7	71.8	163.2		10.8	389.3			
MAY/MAI	6.7	41.8	299.4	453.3		0	146.5			
JUN/JUIN	24.0	133.1	511.5	661.5		0	11.6			
JUL/JUILL	9.9	105.4	500.5	655.5		0	7.9			
AUG/AOÛT	8.0	84.4	470.0	625.0		0	17.4			
SEPT/SEPT	0	2.7	227.6	377.6		0	165.1			
OCT/OCT	0	0	61.9	156.0		40.6	442.6			
NOV/NOV	0	0	0	10.2		142.1	671.9			
DEC/DÉC	0	0	0	0		397.3	955.3			
YEAR ANNÉE	48.6	369.1	2,142.7	3,117.0		1,765.4	5,605.5			

for/pour WINNIPEG "A"

YEAR/ANNÉE: 1988

METEOROLOGICAL DATA FOR THE YEAR/DONNÉES MÉTÉOROLOGIQUES POUR L'ANNÉE												
DAILY TOTAL PRECIPITATION/PRÉCIPITATIONS TOTALES QUOTIDIENNES												
DATE	JAN JANV	FEB FÉVR	MAR MARS	APR AVR	MAY MAI	JUN JUIN	JUL JUILL	AUG AOÛT	SEPT SEPT	OCT OCT	NOV NOV	DEC DÉC
1	0.4		TR.		0.4							
2	1.4	TR.			TR.				0.2	1.2		
3	TR.				0.2							
4	TR.	TR.		0.2								
5		TR.	0.2				14.4					
6		1.2	TR.		8.0		2.1					0.2
7	TR.	TR.	9.2	TR.	7.8		1.8	TR.			1.0	1.0
8	TR.	TR.	TR.	TR.	TR.	TR.	TR.				TR.	TR.
9		TR.		TR.								TR.
10			0.8		TR.		TR.		16.2		TR.	
11			TR.		0.4	20.2			28.0			TR.
12		TR.			1.4		13.0	3.6	TR.			0.6
13	TR.	0.2									TR.	
14	1.8	0.8			TR.	10.6	TR.				0.8	
15		5.8			1.2	3.6				8.2	15.0	0.2
16	0.4	TR.					0.3	TR.	0.9	TR.	TR.	1.0
17		0.2	TR.			12.8					TR.	TR.
18	1.2	TR.			4.6	37.0	2.6		13.0	0.4	0.2	TR.
19	TR.	1.8	TR.		4.2		1.6	TR.	1.8		0.4	0.2
20	TR.	TR.	0.4			1.2			0.6	0.6	TR.	TR.
21	TR.	0.7	TR.		TR.			2.6	0.2		TR.	
22	0.2	TR.		TR.				0.2	0.4	3.0	TR.	4.0
23	0.4					6.1	TR.	TR.		TR.	0.2	1.6
24	1.2		7.8	0.2					TR.		1.4	0.4
25	TR.		3.0	0.4						TR.	1.4	TR.
26	TR.		TR.					1.6	TR.	TR.	TR.	4.6
27	TR.					3.4		0.5	TR.	13.4	0.2	2.2
28	TR.	TR.	1.8		1.5		0.4		TR.	TR.	0.2	TR.
29	TR.		1.0				0.8				0.5	0.4
30	0.9				0.2							0.4
31	0.9						33.8			TR.		5.7
TOTAL	8.8	10.7	24.2	0.8	29.9	94.9	70.8	8.5	61.3	26.8	21.3	22.5

Note/Avis

1. TR = Trace
2. No entry/pas de valeur = no precipitation/pas de précipitations

3. Unit/Unité = 0.1 mm
4. M = Missing/Manquant

for/pour

WINNIPEG "A"

YEAR/ANNÉE: 1988

METEOROLOGICAL DATA FOR THE YEAR/DONNÉES MÉTÉOROLOGIQUES POUR L'ANNÉE												
DAILY RAINFALL/CHUTES DE PLUIE QUOTIDIENNES												
DATE	JAN JANV	FEB FÉVR	MAR MARS	APR AVR	MAY MAI	JUN JUIN	JUL JUILL	AUG AOÛT	SEPT SEPT	OCT OCT	NOV NOV	DEC DEC
1					0.4							
2					TR.				0.2	1.2		
3					0.2							
4				0.2								
5			0.2				14.4					
6			TR.		8.0		2.1					TR.
7				TR.	7.8		1.8	TR.			0.2	
8				TR.	TR.	TR.	TR.					
9												
10			0.8		TR.		TR.		16.2			
11					0.4	20.2			28.0			
12					1.4		13.0	3.6	TR.			
13												
14					TR.	10.6	TR.					
15					1.2	3.6				8.2		
16	0.4						0.3	TR.	0.9	TR.		
17						12.8						
18		TR.			4.6	37.0	2.6		13.0	0.4		
19					4.2		1.6	TR.	1.8			
20						1.2			0.6	0.6		
21		0.3			TR.			2.6	0.2		TR.	
22								0.2	0.4	3.0	TR.	
23						6.1	TR.	TR.		TR.	TR.	
24			3.2	0.2							1.0	
25				TR.								
26								1.6	TR.			
27						3.4		0.5	TR.			
28		TR.			1.5		0.4		TR.			
29							0.8					
30					0.2							
31							33.8					
TOTAL	0.4	0.3	4.2	0.4	29.9	94.9	70.8	8.5	61.3	13.4	1.2	TR.

Note/Avis

1. TR = Trace
2. No entry/pas de valeur = no rain/pas de pluie

3. Unit/Unité = 0.1 mm
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for/pour WINNIPEG "A"

YEAR/ANNÉE: 1988

METEOROLOGICAL DATA FOR THE YEAR/DONNÉES MÉTÉOROLOGIQUES POUR L'ANNÉE												
DAILY MINIMUM TEMPERATURES/TEMPÉRATURES MINIMALES QUOTIDIENNES												
DATE	JAN JANV	FEB FÉVR	MAR MARS	APR AVR	MAY MAI	JUN JUIN	JUL JUIL	AUG AOÛT	SEPT SEPT	OCT OCT	NOV NOV	DEC DÈC
1	-24.4	-31.2	-14.2	-1.6	13.3	20.3	15.1	13.0	8.9	2.2	-5.2	-12.0
2	-18.9	-30.0	-17.2	1.2	6.8	17.5	13.4	13.0	12.4	-0.1	-0.8	-8.2
3	-28.1	-30.0	-14.0	0.3	0.4	15.2	17.4	15.5	9.8	-3.8	-6.3	-10.5
4	-29.3	-30.5	-11.6	4.9	-1.4	15.7	16.8	11.7	5.6	-6.5	-2.7	-6.8
5	-31.2	-28.0	-1.1	0.7	-3.9	20.0	19.2	12.2	2.7	-2.6	-5.2	-5.9
6	-31.1	-25.5	-2.4	-1.3	4.1	21.0	20.9	15.8	4.6	-1.0	-4.2	-8.9
7	-21.3	-26.3	-2.6	-1.0	12.6	19.8	18.4	10.4	11.8	4.5	0.0	-14.9
8	-27.7	-25.1	-6.1	-1.6	6.0	14.1	16.2	8.0	10.4	0.0	-1.6	-21.2
9	-26.2	-30.2	-4.8	-3.0	1.7	10.0	11.7	14.9	5.8	4.5	-7.2	-27.2
10	-25.4	-30.8	-0.3	-7.0	0.7	15.2	10.0	16.5	0.1	-1.5	-4.6	-28.6
11	-27.5	-30.6	-10.7	-4.7	3.0	18.6	6.9	12.5	9.1	-4.9	-6.6	-24.1
12	-27.6	-23.2	-16.0	-2.3	-4.0	13.5	12.4	15.0	7.2	-2.0	-3.2	-8.4
13	-33.0	-17.9	-17.5	-6.6	-4.2	10.2	13.1	15.6	8.9	4.5	-6.2	-12.5
14	-23.2	-25.9	-17.8	-7.7	6.8	11.6	10.8	14.5	3.9	3.4	-5.7	-25.8
15	-18.8	-27.0	-11.2	-9.0	2.3	9.5	13.4	17.8	10.2	9.6	-2.9	-26.2
16	-9.1	-15.1	-12.0	-2.2	-2.2	6.2	11.5	19.4	12.9	-0.4	-7.2	-13.7
17	-21.1	-15.1	-11.8	-8.9	8.0	14.9	9.1	16.2	9.2	-1.7	-8.6	-17.4
18	-18.4	-6.0	-11.7	-10.6	12.6	16.8	13.8	15.6	7.4	1.0	-14.1	-9.8
19	-16.2	-23.6	-13.3	-8.2	10.8	17.1	10.5	14.1	4.0	-3.1	-16.9	-9.6
20	-21.5	-27.4	-13.8	-13.2	8.0	13.4	11.5	13.5	3.2	2.8	-10.3	-14.1
21	-19.0	-12.7	-9.2	-7.3	7.3	15.3	13.1	17.2	6.4	-3.1	-9.1	-14.8
22	-22.7	-18.5	-3.6	-7.4	6.7	11.0	16.8	13.8	7.0	0.5	-6.9	-4.6
23	-21.1	-16.9	-5.1	-7.9	9.0	14.1	12.8	14.8	4.2	-6.0	-4.4	-15.5
24	-25.7	-19.3	0.2	1.6	5.3	15.7	9.4	10.7	4.6	-6.2	0.0	-20.2
25	-28.9	-20.1	-8.7	-4.0	10.9	13.4	16.1	9.8	2.7	-7.2	-10.2	-28.7
26	-27.1	-8.3	-11.9	-6.2	5.4	11.5	15.2	8.6	7.6	-7.3	-11.6	-27.8
27	-19.9	-10.8	-11.2	-6.8	11.2	17.1	16.0	7.5	4.7	-6.9	-20.3	-21.2
28	-18.9	-3.4	-2.6	0.0	16.0	16.5	21.0	10.1	6.4	-13.8	-21.1	-30.4
29	-12.2	-11.3	-10.3	4.2	16.7	12.7	14.5	12.0	4.3	-17.0	-14.2	-28.9
30	-19.4		-12.3	13.4	18.0	10.5	10.3	9.9	8.6	-10.8	-17.9	-25.4
31	-28.6		-11.4		22.5		14.4	10.8		-2.1		-25.6
AVG.	-23.3	-21.4	-9.6	-3.4	6.8	14.6	13.9	13.2	6.8	-2.4	-7.8	-17.7

Note/Avis 1. Unit/Unité = 0.1°C
2. M = Missing/Manquant

101/POUR WINNIPEG "A"

YEAR/ANNEE 1988

METEOROLOGICAL DATA FOR THE YEAR/DONNÉES MÉTÉOROLOGIQUES POUR L'ANNÉE													
MONTH MOIS	SUNSHINE / INSOLATION				WIND / VENT								
	DURATION IN HOURS DUREE (NOMBRE D'HEURES)	PERCENTAGE OF POSSIBLE POURCENTAGE DU TOTAL POSSIBLE	NO. OF DAYS WITHOUT SUNSHINE NOMBRE DE JOURS SANS SOLEIL	NORMAL NORMALE	AVERAGE SPEED VITESSE MOYENNE		PREVAILING DIRECTION DIRECTION DOMINANTE	NORMAL MORMALE		MAX 2 MIN MEAN VITESSE MOYENNE MAX SUP 2 MIN		HIGHEST GUST RAFALE MAXIMUM	
					SPEED VITESSE	DIRECTION		DIRECTION AND SPEED DIRECTION ET VITESSE	DATE	DIRECTION AND SPEED DIRECTION ET VITESSE	DATE		
JAN/JANV	120.3	45.0	7	121.2	15.9	S	18.6	S	NNW 46	22	WNW 65	3	
FEB/FÉVR	169.3	57.9	4	144.2	18.0	S	18.1	S	NNW 52	22	NNW 67	22	
MAR/MARS	187.4	51.0	3	176.2	18.1	N	19.3	S	WNW 48	25	S 65	21*	
APR/AVR	298.2	72.3	0	219.8	18.9	S	20.9	S	NW 52	8	NW 76	8	
MAY/MAI	288.5	60.5	0	265.6	19.4	S	20.2	S	S 59	1	S 85	1	
JUN/JUIN	361.9	74.0	1	276.1	16.4	S	18.1	S	WNW 52	24	WNW 89	24	
JUL/JUILL	347.3	70.5	0	315.6	14.0	S	16.0	S	ESE 44	6	ESE 72	6	
AUG/AOÛT	256.9	57.3	0	283.3	14.6	W	16.4	S	NW 44	24	SSE 67	21*	
SEPT/SEPT	200.4	52.8	3	184.6	17.5	N	18.5	S	N 46	18*	S 65	7*	
OCT/OCT	194.1	58.1	2	151.5	17.0	NW	19.6	S	S 56	22	S 78	22	
NOV/NOV	60.7	22.3	9	90.7	15.8	S	19.4	S	S 48	2*	N 70	16	
DEC/DÉC	100.3	39.6	6	92.6	17.2	S	18.6	S	S 37	11*	S 57	11	
YEAR ANNÉE	2585.3	57.6	35	2321.4	16.9	S	18.6	S	S 59	MAY 1	WNW 89	JUN 24	

* Indicates later occurrences of same speed/Indique des données postérieures de la même vitesse

BAROMETRIC PRESSURE/PRESSION BAROMÉTRIQUE												
MONTH MOIS	STATION LEVEL / NIVEAU DE LA STATION						SEA LEVEL / NIVEAU DE LA MER					
	MEAN MOYENNE	MAXIMUM MAXIMALE	DATE	MINIMUM MINIMALE	DATE	NORMAL NORMALE	MEAN MOYENNE	MAXIMUM MAXIMALE	DATE	MINIMUM MINIMALE	DATE	NORMAL NORMALE
JAN/JANV	98.89	100.76	13	95.97	16	98.96	101.99	103.99	13	98.89	16	102.10
FEB/FÉVR	98.89	101.11	10	94.99	21	98.90	101.98	104.34	10	97.87	21	102.01
MAR/MARS	98.75	100.26	31	95.73	25	98.82	101.74	103.31	31	98.59	25	101.87
APR/AVR	98.46	99.72	15	96.93	4	98.59	101.39	102.72	15	99.79	4	101.55
MAY/MAI	98.33	99.80	5	96.68	7*	98.53	101.20	102.79	5	99.48	7	101.44
JUN/JUIN	98.51	99.70	9	97.14	24	98.31	101.35	102.59	9	99.92	24	101.17
JUL/JUILL	98.48	99.35	20	97.24	13	98.47	101.32	102.23	20	100.04	13	101.33
AUG/AOÛT	98.28	99.40	18	97.11	7	98.49	101.13	102.28	18	100.20	7	101.35
SEPT/SEPT	98.57	99.78	27	96.29	7	98.51	101.45	102.74	27	99.08	7	101.41
OCT/OCT	98.80	100.82	4	96.72	22	98.51	101.74	103.87	4	99.60	22	101.45
NOV/NOV	98.25	99.60	18	96.83	2	98.63	101.23	102.64	18	99.72	2	101.65
DEC/DÉC	98.77	100.85	15	96.69	19	98.77	101.82	104.05	15	99.63	19	101.86
YEAR ANNÉE	98.58	101.11	FEB 10	94.99	FEB 21	98.62	101.53	104.34	FEB 10	97.87	FEB 21	101.60

1 kilopascal = 0.29529 inches of mercury/pouce de mercure
3.386 kilopascals = 1 inch of mercury/pouce de mercure

Note/Avis 1. Normal/Normale 1951-1980
2. * Indicates first of more than one occurrence/Indique le premier de plusieurs