

ANNUAL METEOROLOGICAL SUMMARY / sommaire meteorologique annuel

STATION NAME : **WINNIPEG INTL ARPRT, MB.**

YEAR / ANNEE: **2003**

MONTH MOIS	TEMPERATURE / temperature										SUNSHINE / INSOLATION	
	MEAN / moyenne			NORMAL / normale			EXTREME / extreme				DURATION IN HOURS DUREE NOMBRE D'HEURES	NORMAL normale
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	DATE	MIN	DATE		
Jan/janv	-10.8	-20.1	-15.5	-12.7	-22.8	-17.8	6.1	7	-34.2	22	N/A	120.1
Feb/fevr	-13.0	-25.7	-19.4	-8.5	-18.7	-13.6	-1.6	2	-36.0	15	N/A	137.8
Mar/mars	-2.3	-14.1	-8.2	-1.1	-11.0	-6.1	15.2	22	-37.4	2	N/A	178.4
Apr/avr	12.8	-2.0	5.4	10.3	-2.4	4.0	25.7	13	-11.8	4	N/A	239.1
May/mai	20.6	4.6	12.6	19.2	4.8	12.0	27.5	29	-6.6	1	N/A	286.2
Jun/juin	23.7	9.6	16.7	23.3	10.7	17.0	30.3	15	2.3	9	N/A	283.2
Jul/juil	26.1	12.7	19.4	25.8	13.3	19.5	31.8	28	5.7	8	N/A	317.5
Aug/aout	28.7	14.4	21.6	25.0	11.9	18.5	35.9	19	4.7	27	N/A	280.2
Sep/sept	18.4	6.8	12.6	18.6	6.0	12.3	30.8	8	-6.3	30	N/A	186.4
Oct/oct	12.6	0.5	6.6	10.8	-0.3	5.3	27.4	8	-8.8	1	N/A	147.1
Nov/nov	-2.7	-11.6	-7.2	-0.9	-9.6	-5.3	6.0	17	-20.7	7	N/A	95.6
Dec/dec	-4.8	-14.5	-9.7	-9.7	-19.1	-14.4	4.3	21	-31.6	11	N/A	100.3
MEAN	9.1	-3.3	2.9	8.3	-3.1	2.6	35.9	19/Aug	-37.4	2/Mar		2371.9

MONTH mois	PRECIPITATION / precipitations						WIND / vent					
	Monthly/mensuelle			Normal / normale			Avg Speed vitesse moyenne	Prevail DIR direct moyenne	Normal normale		Highest Gust rafale maximum	
	RAIN pluie	Snow neige	Total	RAIN pluie	Snow neige	Total			Speed vitesse	DIR direct	DIR & Speed direct & vitesse	DATE
Jan/janv	0.5	11.5	12.0	0.2	23.1	19.7	20	W	17	S	NNW 69	9/Jan
Feb/fevr	TR	10.5	10.5	2.5	14.2	14.9	16	S	17	S	N 70	11/Feb
Mar/mars	8.5	10.0	18.5	7.5	15.8	23.3	17	N	18	S	WNW 69	24/Mar
Apr/avr	17.5	15.5	33.0	21.5	10.1	31.9	20	S	18	S	N 63	20/Apr
May/mai	78.5		78.5	58.0	0.8	58.8	19	S	18	S	WNW 70	20/May
Jun/juin	42.5		42.5	89.5		89.5	15	S	16	S	S 67	20/Jun
Jul/juil	44.5		44.5	70.6		70.6	15	S	15	S	S 69	13/Jul
Aug/aout	71.0		71.0	75.1		75.1	17	S	15	S	S 65	13/Aug
Sep/sept	38.5	TR	38.5	51.9	0.4	52.3	19	S	17	S	NW 74	24/Sep
Oct/oct	3.0	15.0	19.0	31.0	5.0	36.0	16	NW	18	S	NNW 63	22/Oct
Nov/nov			14.0	6.1	21.4	25.0	18	S	17	S	S 72	28/Nov
Dec/dec			28.0	1.6	19.8	18.5	19	S	17	S	S 63	6/Dec
Total	304.5	62.5	410.0	415.5	110.6	515.6	17.6	S	16.9	S	NW 74	24/Sep

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YEAR / anne: **2003**

Meteorological Data for the year / donnees meteorologique pour l'annee												
Daily Maximum Temperatures / temperatures maximales 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	-8.0	-4.1	-7.9	0.2	13.3	23.5	30.6	26.7	27.1	7.4	-0.9	-4.5
2	-4.7	-1.6	-21.2	0.2	22.2	24.3	27.6	27.7	22.2	14.2	-2.1	-0.9
3	-1.9	-13.7	-16.4	-2.4	21.6	22.3	26.0	26.1	20.0	14.3	-6.2	0.9
4	-2.3	-16.8	-18.7	-4.9	18.5	21.9	25.6	27.1	25.4	17.0	-4.0	0.5
5	-5.8	-16.0	-11.6	-1.0	22.6	22.5	26.8	25.0	26.1	20.6	-5.2	-6.2
6	1.8	-19.8	-11.0	6.2	20.9	22.5	24.2	27.5	27.3	25.8	-8.2	-1.8
7	6.1	-6.5	-18.7	8.2	20.2	16.7	20.4	30.6	29.1	27.1	-13.8	-0.7
8	4.9	-19.6	-19.4	14.4	19.5	18.9	19.7	32.5	30.8	27.4	-6.8	-0.8
9	-5.1	-17.7	-16.4	24.9	14.8	14.8	20.0	27.5	27.6	26.5	-2.8	-12.1
10	-14.5	-15.4	-13.5	16.4	13.4	21.7	22.7	29.2	22.0	19.2	0.8	-12.2
11	-18.1	-15.5	-10.7	14.4	17.5	24.1	23.9	32.0	22.0	14.9	1.9	-20.5
12	-17.3	-15.3	-11.1	20.2	20.5	22.3	27.8	29.9	21.9	17.5	-0.7	-12.6
13	-17.1	-16.5	-0.8	25.7	22.6	26.1	31.2	31.7	20.1	15.8	2.5	-3.9
14	-17.4	-16.2	5.7	12.5	26.2	27.4	23.3	35.3	14.6	11.2	3.9	-2.0
15	-9.6	-14.5	3.7	10.9	26.5	30.3	25.9	34.8	19.7	9.4	3.4	-2.0
16	-12.8	-3.4	-0.1	9.5	25.5	27.5	24.2	33.2	19.2	6.9	2.2	-12.5
17	-6.1	-5.9	4.2	3.4	19.8	28.9	25.2	35.5	16.6	13.2	6.0	-7.0
18	-14.8	-8.7	1.6	14.5	14.2	25.3	28.2	33.1	12.1	13.7	2.3	-2.4
19	-11.4	-4.1	4.8	19.5	10.9	27.3	29.4	35.9	14.7	18.4	1.3	-5.9
20	-20.2	-9.4	4.2	19.4	19.9	29.4	25.0	33.2	15.6	13.2	1.7	-2.5
21	-19.8	-20.0	8.9	18.3	20.3	29.2	24.4	27.5	13.0	13.7	-6.6	4.3
22	-24.6	-20.8	15.2	19.9	21.6	24.3	26.5	29.3	13.6	15.6	-9.1	-0.4
23	-22.1	-20.4	11.0	23.9	21.7	26.1	28.5	29.4	18.4	6.8	-10.7	-4.8
24	-16.2	-21.3	4.8	19.3	19.1	21.6	29.6	29.8	8.9	11.4	-7.9	-4.4
25	-19.7	-14.2	2.5	16.6	23.7	15.8	28.7	29.5	12.5	3.0	-6.6	0.9
26	-18.7	-8.3	6.6	20.5	26.4	19.5	27.5	23.6	10.9	1.2	-4.6	-0.4
27	-7.7	-10.0	5.4	13.0	26.6	21.9	27.7	19.5	11.8	0.9	-4.0	0.9
28	-16.0	-7.7	5.9	10.3	26.7	20.3	31.8	13.8	11.8	3.1	-6.7	0.6
29	-6.0		1.7	11.1	27.5	24.8	27.2	20.4	9.5	1.1	1.0	-9.4
30	-6.1		4.8	18.8	16.0	28.3	24.2	24.3	8.5	1.3	-1.1	-13.4
31	-5.0		13.8		19.7		24.3	27.3		-1.3		-14.1

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Daily Mean Temperatures/temperatures moyenne 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	-10.1	-5.6	-20.4	-2.6	3.4	14.1	24.2	19.7	18.5	-0.7	-6.4	-9.6
2	-6.8	-8.7	-29.3	-3.6	12.1	15.1	22.2	19.7	17.2	7.3	-8.9	-7.8
3	-3.9	-20.4	-22.7	-4.7	13.8	17.1	21.5	19.0	13.3	8.4	-12.4	-3.2
4	-4.3	-24.3	-24.6	-8.4	13.5	16.4	20.1	20.9	15.2	9.3	-6.4	-2.9
5	-7.5	-22.4	-21.1	-6.2	12.9	16.9	19.1	21.4	18.8	12.2	-9.3	-10.4
6	-4.1	-26.7	-19.7	-0.2	11.0	15.3	19.5	19.8	17.8	15.3	-11.9	-6.1
7	2.5	-13.5	-25.7	3.1	14.0	13.1	14.7	22.4	21.0	16.0	-17.3	-1.9
8	-0.1	-24.1	-27.0	7.0	15.5	11.9	12.7	25.5	24.6	18.0	-13.7	-9.1
9	-9.9	-25.0	-20.4	13.4	10.8	8.6	15.2	21.8	23.2	17.9	-5.6	-16.2
10	-18.2	-24.0	-19.7	8.1	8.4	12.6	16.5	22.5	19.8	12.2	-4.2	-21.0
11	-21.1	-20.5	-16.3	5.4	8.7	15.5	18.7	25.0	17.6	10.6	-2.6	-26.1
12	-20.5	-21.8	-18.3	10.8	8.3	17.3	19.6	24.7	17.0	9.8	-6.5	-19.1
13	-21.5	-22.7	-10.5	16.0	12.0	16.8	24.0	25.1	15.1	9.2	-4.8	-8.3
14	-20.6	-25.3	1.2	6.7	15.0	18.3	18.4	27.7	10.8	5.0	-2.0	-7.4
15	-15.7	-25.3	-0.5	4.4	16.5	23.9	17.7	25.6	12.2	2.9	-1.8	-8.9
16	-17.3	-9.2	-2.8	3.5	17.4	21.2	17.8	22.3	13.1	1.4	-1.4	-16.2
17	-13.8	-7.4	0.6	0.3	15.0	19.5	16.7	26.8	13.3	4.8	3.8	-11.5
18	-20.2	-12.1	-1.8	5.9	8.6	16.0	21.4	27.2	9.6	6.2	0.2	-9.7
19	-18.7	-9.1	2.0	9.6	5.6	17.7	21.6	27.1	9.6	11.4	-1.3	-13.2
20	-24.4	-15.3	1.5	9.9	8.8	22.8	18.9	26.2	10.5	7.5	-3.3	-4.6
21	-23.9	-25.4	2.9	6.7	13.4	23.2	17.2	20.3	9.7	9.2	-11.4	-0.4
22	-29.4	-27.3	6.0	9.4	12.9	17.9	18.0	19.3	8.4	9.6	-12.9	-8.0
23	-28.0	-27.0	4.7	13.4	14.6	18.3	21.3	23.8	8.8	4.1	-12.8	-9.0
24	-19.2	-28.6	2.8	14.5	13.3	16.8	23.2	23.8	4.4	6.3	-13.6	-8.1
25	-24.2	-20.2	-0.4	9.5	13.6	13.2	22.6	20.5	6.5	0.1	-8.3	-3.0
26	-24.7	-19.0	1.0	11.2	17.0	13.8	20.3	16.1	5.8	-0.5	-10.8	-2.4
27	-13.2	-17.0	-0.3	6.6	17.8	14.1	18.5	12.1	6.1	0.1	-7.9	-0.1
28	-23.1	-14.1	-1.3	2.2	16.6	15.5	24.0	11.7	6.1	-0.2	-12.8	-4.5
29	-18.0		-2.4	1.0	20.4	17.3	21.2	13.3	3.9	-3.8	-3.8	-11.4
30	-10.5		0.9	9.4	10.6	20.0	18.4	17.0	1.1	-0.4	-4.5	-18.5
31	-10.5		6.9		10.5		16.7	20.6		-5.0		-21.2

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FOR / pour: WINNIPEG INTL ARPRT, MB.

YEAR / anne: 2003

Meteorological Data for the year / donnees meteorologique pour l'annee												
Daily Snowfall / chutes de neige quotidiennes (cm)												
	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	TR	2.0	1.5									
2	0.5	0.5										
3	TR		2.5	3.5								
4		TR		2.5								
5	TR	TR	0.5									
6	TR		3.0									
7		TR										
8	TR											
9	0.5	0.5										
10		0.5										
11		1.0	1.0									
12												
13		TR	1.0									
14		0.5										
15		TR										
16		1.0										
17	3.0	TR		9.5								
18	TR	3.0										
19	0.5											
20		0.5	0.5									
21	TR	0.5										
22												
23	0.5											
24	1.0											
25	0.5		TR									
26	0.5											
27	4.0			TR							1.0	
28		0.5									13.0	
29	0.5										1.0	
30	TR		TR						TR		TR	
31	TR		TR								TR	