

ANNUAL METEOROLOGICAL SUMMARY / sommaire meteorologique annuel

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

YEAR / ANNEE: **1999**

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	-13.2	-22.1	-17.7	-13.2	-23.6	-18.3	1.8	15	-37.0	12	126.3	119.7
Feb/fevr	-3.5	-12.4	-8.0	-9.7	-20.6	-15.1	5.7	26	-24.6	4	95.8	139.9
Mar/mars	2.7	-7.5	-2.4	-1.8	-12.4	-7.0	16.1	30	-18.5	3	176.8	177.7
Apr/avr	13.2	0.3	6.8	9.8	-2.3	3.8	26.3	30	-5.6	22	233.6	232.4
May/mai	17.8	6.1	12.0	18.6	4.5	11.6	30.5	28	-4.2	9	218.3	276.8
Jun/juin	22.2	9.9	16.1	23.4	10.4	16.9	31.7	22	0.8	14	275.4	290.6
Jul/juil	25.5	12.7	19.1	26.1	13.4	19.8	32.5	29	5.7	17	314.9	321.7
Aug/aout	24.8	11.4	18.1	24.9	11.7	18.3	30.5	31	4.1	8	282.2	285.9
Sep/sept	17.2	5.1	11.2	18.6	6.1	12.4	25.7	6	-3.9	20	138.7	189.3
Oct/oct	10.3	-1.7	4.3	11.3	0.1	5.7	17.7	31	-9.4	2	127.3	149.8
Nov/nov	6.4	-5.2	0.6	-0.4	-9.2	-4.7	17.5	8	-11.9	19	109.9	94.9
Dec/dec	-3.0	-14.3	-8.7	-9.9	-19.4	-14.6	7.9	1	-31.9	21	52.6	98.6
MEAN	10.0	-1.5	4.3	8.1	-3.4	2.4	32.5	Jul-29	-37.0	Jan-12		

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	0.2	18.7	17.1	0.3	22.6	19.3	17	S	18	WNW	S 83	Jan-14	
Feb/fevr	3.0	11.3	14.3	0.4	17.1	14.8	20	S	17	SSE	S 76	Feb-23	
Mar/mars	1.2	29.2	20.3	5.9	19.2	23.1	19	S	18	SSE	S 83	Mar-26	
Apr/avr	10.6	46.0	51.0	26.4	9.4	35.9	18	S	20	NNW	S 63	Apr-13	
May/mai	97.0		97.0	57.8	2.0	59.8	21	N	19	SSE	SSE 80	May-04	
Jun/juin	84.2		84.2	83.8	TR	83.8	17	W	17	SSE	S 70	Jun-04	
Jul/juil	70.8		70.8	72.0		72.0	14	W	15	SSE	W 63	Jul-05	
Aug/aout	61.0		61.0	75.3		75.3	15	S	15	SSE	WNW 83	Aug-22	
Sep/sept	57.2		57.2	50.9	0.4	51.3	17	S	18	SSE	NW 80	Sep-30	
Oct/oct	26.6	TR	26.6	24.6	4.9	29.5	17	S	19	SSE	NW 82	Oct-21	
Nov/nov	1.8	4.4	6.2	5.3	19.0	21.2	18	S	18	SSE	NW 113	Nov-01	
Dec/dec	3.6	23.4	24.8	1.6	20.1	18.6	19	S	17	SSE	NW 98	Dec-25	
Total	417.2	133.0	530.5	404.3	114.7	504.6	17.7	S	17.6	SSE	NW 113	Nov-01	

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 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	-19.2	1.2	-1.0	2.6	26.4	12.8	18.1	23.0	22.2	5.6	12.9	7.9
2	-19.4	-2.9	-3.9	-0.1	25.7	18.0	21.3	24.2	16.4	7.1	6.5	6.3
3	-21.2	-5.5	-6.3	0.3	23.0	21.3	24.7	26.1	18.1	10.2	10.1	3.4
4	-21.5	-15.0	-4.8	1.0	24.7	26.8	22.4	25.7	13.8	11.8	13.2	1.8
5	-17.9	-9.6	-5.6	5.5	17.7	25.5	24.0	27.9	15.3	6.5	5.8	-5.6
6	-21.4	-11.4	-4.2	4.1	20.4	26.3	25.9	26.4	25.7	7.6	7.0	3.4
7	-19.8	-1.1	-0.3	12.0	8.2	26.8	22.3	20.0	22.4	10.2	16.2	4.3
8	-22.4	3.0	-2.1	17.3	10.3	28.9	21.3	21.6	14.9	13.0	17.5	0.2
9	-21.2	-5.1	-0.1	15.5	12.5	23.1	23.6	25.9	13.2	14.0	6.4	-1.5
10	-24.1	4.8	-0.1	13.5	7.2	21.9	26.4	23.5	14.7	15.8	4.5	-1.6
11	-22.9	-7.8	1.7	13.7	12.4	23.4	27.4	22.0	16.0	9.7	12.2	2.5
12	-28.6	-10.3	0.5	15.7	13.2	21.9	24.4	20.9	16.2	11.3	11.8	-0.4
13	-17.6	-4.3	0.8	20.4	14.2	15.5	25.1	22.9	12.3	10.0	16.3	5.1
14	-12.5	-0.2	1.6	13.3	17.4	15.5	26.2	26.3	14.4	16.4	5.5	3.0
15	1.8	-6.1	6.3	4.1	20.6	15.7	20.5	28.0	17.7	9.9	9.4	-8.9
16	-0.2	-7.9	5.0	2.3	20.0	20.5	20.8	21.2	21.6	7.5	3.8	-20.5
17	-4.3	-10.3	0.9	6.8	13.6	23.0	20.6	21.6	25.4	8.8	5.5	-8.5
18	-10.7	-7.0	0.1	14.6	14.8	25.5	23.7	24.3	19.9	7.3	-1.5	0.1
19	-16.4	-4.1	3.4	12.6	21.1	23.8	27.5	27.0	11.4	2.4	2.9	-1.0
20	-18.8	-2.4	4.4	13.7	19.3	23.9	28.3	27.5	14.2	15.1	5.0	-20.6
21	-6.1	-2.5	4.8	13.3	12.3	28.9	30.8	28.1	24.5	13.2	7.4	-21.6
22	-6.8	0.0	8.8	13.5	10.5	31.7	29.7	25.3	24.3	5.8	5.5	-16.7
23	-8.6	-3.0	-0.3	17.3	16.0	25.1	31.1	25.4	18.0	6.7	5.2	-7.3
24	-9.6	-0.1	2.4	22.5	17.6	22.6	30.3	26.9	23.0	13.6	3.9	-2.8
25	-11.4	2.9	5.7	23.5	20.8	16.7	30.3	29.9	19.2	13.9	3.8	5.4
26	-7.6	5.7	10.2	24.4	26.2	21.6	24.2	28.2	13.5	9.4	0.5	-8.8
27	-7.9	2.9	10.1	19.9	23.8	18.2	27.5	27.0	14.2	7.5	-1.7	2.4
28	-7.5	-1.6	11.4	23.6	30.5	20.7	31.0	21.3	13.9	9.6	-5.0	2.6
29	-1.6		11.8	23.9	21.9	21.4	32.5	21.7	12.3	10.7	-3.2	3.0
30	-3.7		16.1	26.3	12.8	19.7	27.5	18.8	8.0	12.0	4.1	-9.7
31	-0.4		7.0		16.3		20.3	30.5		17.7		-8.2

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 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	-23.4	-2.3	-2.5	0.0	17.7	10.7	14.1	16.3	15.8	0.9	4.4	1.9
2	-20.3	-6.0	-9.9	-1.6	18.9	13.8	14.6	15.7	11.2	-1.2	-0.5	0.8
3	-25.3	-13.6	-12.4	-1.7	17.3	15.9	18.3	18.3	14.4	1.7	1.0	-1.6
4	-26.1	-19.8	-9.4	-0.7	19.6	20.9	18.1	18.4	12.2	5.4	4.7	-3.3
5	-22.2	-13.3	-11.8	0.3	15.6	18.2	19.0	21.0	11.5	2.2	1.7	-7.3
6	-25.9	-17.3	-11.2	2.4	12.8	17.9	18.7	19.5	14.8	2.5	1.6	-1.7
7	-23.4	-7.3	-5.8	6.1	3.7	19.8	15.5	13.5	17.8	4.7	7.8	-1.0
8	-26.1	-1.9	-3.6	7.7	3.8	21.5	17.3	12.9	11.3	7.1	8.6	-3.5
9	-25.9	-10.8	-3.6	8.5	4.2	18.2	17.9	20.4	10.0	9.6	1.3	-5.4
10	-28.5	-3.4	-3.9	6.5	5.3	16.2	19.0	17.5	10.2	8.5	2.2	-3.1
11	-28.2	-10.8	-6.2	5.8	8.6	16.0	21.1	15.8	9.7	4.5	4.6	-2.4
12	-32.8	-14.2	-7.2	6.8	9.3	15.2	19.6	14.2	12.6	5.6	3.3	-5.2
13	-24.2	-11.4	-2.4	12.1	11.2	8.7	18.3	13.7	10.4	3.1	8.9	-2.4
14	-16.7	-4.9	-1.4	7.0	13.6	8.2	19.9	17.6	8.5	10.1	2.1	-3.9
15	-5.5	-8.4	1.9	0.8	15.1	9.3	17.1	21.8	9.1	7.3	1.2	-16.7
16	-3.5	-11.8	-0.4	-0.5	13.7	10.7	14.6	17.9	12.8	5.0	-1.6	-24.3
17	-8.7	-14.8	-4.5	2.2	7.8	14.4	13.2	17.0	17.0	4.2	1.6	-16.7
18	-17.8	-15.0	-6.7	7.2	7.2	19.0	16.4	18.2	13.5	4.3	-3.9	-5.5
19	-21.0	-9.9	-0.4	4.4	15.2	17.4	20.8	18.9	4.2	-1.1	-4.5	-10.8
20	-24.4	-7.5	0.2	8.2	14.3	20.0	22.6	21.0	5.2	6.7	-0.7	-24.9
21	-15.0	-7.5	-0.5	5.7	8.6	23.2	25.3	21.0	15.6	8.7	2.3	-26.8
22	-8.0	-4.0	2.6	4.0	8.2	24.6	23.6	20.9	14.9	0.0	-0.4	-23.2
23	-9.2	-3.5	-3.0	6.9	10.0	20.2	23.6	20.0	9.6	-0.9	-1.7	-12.0
24	-14.6	-2.0	-3.2	13.1	10.0	15.6	21.8	19.6	14.3	6.2	-3.1	-5.7
25	-16.4	-3.2	-0.2	14.4	11.0	11.0	23.0	23.2	12.6	4.1	-2.7	-1.8
26	-14.6	3.4	5.3	14.9	15.6	16.8	18.3	21.8	9.4	0.7	-1.4	-14.3
27	-11.0	0.7	5.4	14.9	16.0	14.0	19.7	19.2	7.9	3.7	-4.7	-11.8
28	-12.4	-3.0	5.5	17.3	22.0	14.7	22.3	14.3	8.1	2.6	-8.4	-0.2
29	-6.2		5.6	15.1	16.8	15.1	23.2	13.0	5.2	4.4	-6.1	-6.9
30	-6.2		6.5	15.9	9.2	15.0	20.5	16.9	5.5	5.2	0.2	-15.1
31	-4.6		2.8		9.4		15.1	23.3		8.1		-13.5

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 Snowfall / chutes de neiege 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	2.0	0.0	0.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
2	3.0	0.0	TR	9.8	0.0	0.0	0.0	0.0	0.0	TR	0.0	0.0
3	TR	TR	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	TR	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
5	TR	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
6	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.4	TR	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.0	TR	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
12	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
15	3.0	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
16	0.0	0.0	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
17	0.0	0.0	4.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
19	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR	0.0	9.2
20	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR	0.0	0.4
21	0.0	TR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.5	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
24	TR	1.5	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1.4	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.0
27	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TR
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.4