

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS APRIL

19 93

AT/A WINNIPEG INT'L AIRPORT

DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS			REL HUMIDITY HUMIDITÉ REL		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			SPRINT BURNING INSULATION EFFECTIVE HEURES	
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE RÉFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DOMINANTE	MAX 3 MIN MEAN SPEED & DIRECTION VITESSE MOYENNE MAX. SUR 3 MIN & DIRECTION		
	°C	°C	°C	BASE 18°C	BASE 5°C	BASE 18°C	%	%		mm	cm	mm		km/h		km/h		
1	3.6	-6.8	-1.6	19.6			74	27					TR	10.5	ENE	ESE 17	10.6	
2	5.2	-6.2	-0.5	18.5			86	24					TR	7.0	SSE	SE 13	10.8	
3	7.4	-5.8	0.8	17.2			93	38					TR	7.5	SSE	SSW 19	10.4	
4	10.0	-1.1	4.5	13.5			74	40					TR	18.6	SSE*	S 32	11.3	
5	12.4	0.0	6.2	11.8	1.2		74	35						17.8	SSE	SSE 33	11.8	
6	12.0	-0.3	5.9	12.1	0.9		80	40						14.3	S	S 28	10.9	
7	10.2	0.7	5.5	12.5	0.5		81	57						10.3	S	WSW 19	0.7	
8	8.7	0.8	4.8	13.2			93	66		TR		TR		10.7	S	W 26	1.2	
9	6.8	-3.4	1.7	16.3			86	56						15.1	NW	WNW 32	2.1	
10	7.6	-6.5	0.6	17.4			93	53						8.5	NE	ENE 20	2.0	
11	9.4	-1.3	4.1	13.9			86	34						8.8	E	E 15	0.6	
12	8.4	2.2	5.3	12.7	0.3		93	44		5.4		5.4		19.0	SSE	SSE 37	0.2	
13	11.7	0.0	5.9	12.1	0.9		93	40						10.3	W	W 17	10.4	
14	9.5	-3.3	3.1	14.9			93	34						16.0	NNE	NE 26	11.4	
15	12.1	-5.8	3.2	14.8			86	35						8.5	ENE	N 13	11.7	
16	12.9	-2.3	5.3	12.7	0.3		74	40						19.8	SSE	NW 32	11.5	
17	15.9	-4.5	5.7	12.3	0.7		93	31						15.8	NNE*	SSE 28	5.4	
18	8.6	-4.7	2.0	16.0			93	34						22.8	NNE	NE 39	12.5	
19	9.6	-8.6	0.5	17.5			79	22						16.0	NNE	NNE 28	13.0	
20	11.1	-6.8	2.2	15.8			80	20						13.4	NNW	WNW 28	13.0	
21	16.6	0.7	8.7	9.3	3.7		56	20						17.5	SW	W 26	12.5	
22	19.1	-2.4	8.4	9.6	3.4		64	18						10.1	E	SSW 24	12.7	
23	19.9	4.0	12.0	6.0	7.0		66	24						14.9	SSE	S 24	9.6	
24	10.3	-6.4	2.0	16.0			93	24		TR	TR	TR		14.8	SSE	S 24	7.0	
25	5.7	-10.0	-2.2	20.2			93	24						12.3	SSE	N 22	13.3	
26	19.3	-1.4	9.0	9.0	4.0		62	26	1		TR	TR		29.5	S	S 43	6.3	
27	12.7	5.4	9.1	8.9	4.1		100	71	1	13.6		13.6		17.3	S	S 35	0.0	
28	9.8	3.1	6.5	11.5	1.5		100	76		4.8		4.8		8.3	NE	ENE 30	0.5	
29	7.3	0.5	3.9	14.1			100	81		0.4		0.4		12.0	NE*	NE 22	0.0	
30	12.2	-0.3	6.0	12.0	1.0		93	30						12.6	NNE	SSE 28	8.3	
31																		
MEAN MOYENNE	10.9	-2.4	4.3	411.4	TOTAL 29.5	TOTAL 0.0	84	39	TOT 2	TOTAL 24.2	TOTAL TR	TOTAL 24.2		14.0	PREVAILING DOMINANTE SSE	MAXIMALE S 43	TOTAL 231.7	
NORMAL NORMALE	9.8	-2.3	3.8	428.6	54.1	0.7			0	26.4	9.4	35.9		20.0	N		232.4	

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES								DAYS WITH SNOWFALL JOURS AVEC CHÛTE DE NEIGE							
								02 OR MORE OU PLUS	18 OR MORE OU PLUS	28 OR MORE OU PLUS	50 OR MORE OU PLUS	80 OR MORE OU PLUS	100 OR MORE OU PLUS	150 OR MORE OU PLUS	200 OR MORE OU PLUS	250 OR MORE OU PLUS	300 OR MORE OU PLUS	350 OR MORE OU PLUS	400 OR MORE OU PLUS	450 OR MORE OU PLUS	500 OR MORE OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	411.4	464.8	428.6	TOTAL FOR MONTH TOTAL DU MOIS	29.5	37.8	54.1	4	3	3	1	0	0	0	0	0	0	0					
ACCUMULATED SINCE JULY 1 AU-DÉPART DE DEPUIS LE 1 <sup>er</sup> JUILLET	5643.0	5286.8	5593.1	ACCUMULATED SINCE APRIL 1 AU-DÉPART DE DEPUIS LE 1 <sup>er</sup> AVRIL	29.5	37.8	54.1	4	3	3	1	0	0	0	0	0	0	0					

UDC 551 506 1 ( ) Note/Aviz 1. Climatological Day/Journée climatologique 00 01 C ST - 23.00 C ST  
 2. Normal/Normale 1951-1980  
 3. TR = Trace  
 4. M = Missing/Manquant  
 5. No entry/Pas de valeur - No occurrence/Pas d'événement  
 6. \* Indicates first of more than one prevailing direction and/or maximum 2 minute mean speed (see page 4)/Indique la première de plusieurs des directions dominantes et/ou la vitesse moyenne maximale sur 2 minutes (voir page 4)  
 7. C = Calm/Calm \$3.00 \$29.50 \$3.00 \$29.50  
 8. Price: single issue \_\_\_\_\_ annual (Jan to Dec) \_\_\_\_\_ /Prix: numéro individuel \_\_\_\_\_ annuel (janv à déc) \_\_\_\_\_



DRY BULB TEMPERATURE SUMMARY  
 SOMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

APRIL 1993  
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HOUR->	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
D	1	-21	-32	-38	-45	-58	-68	-61	-54	-44	-36	-27	-5	-2	9	18	27	33	33	26	-2	-12	-22	-23	-18	-18
A	2	-18	-23	-31	-37	-48	-61	-52	-51	-20	0	12	26	40	38	46	48	46	40	36	4	-1	-20	-18	-31	-3
T	3	-32	-44	-38	-44	-43	-42	-54	-35	-2	28	43	49	54	61	66	68	65	67	63	53	34	28	29	19	16
E	4	6	-3	1	6	-1	-7	-7	-4	18	42	55	65	79	87	94	96	94	89	74	62	57	52	49	46	46
	5	40	33	26	18	15	11	0	15	34	55	76	91	106	110	114	118	117	108	95	72	72	55	41	64	64
	6	36	26	20	11	7	1	-2	16	32	50	73	87	99	105	115	104	107	113	102	86	75	59	40	59	59
	7	21	23	36	28	13	10	12	21	30	43	63	70	73	86	93	96	98	95	87	76	59	49	47	54	54
	8	51	43	38	29	18	22	18	15	42	55	55	63	82	78	77	73	70	48	44	41	35	27	11	13	44
	9	8	-21	-11	-19	-14	-14	-16	-12	0	19	43	51	52	47	53	59	53	49	51	26	22	7	0	4	18
	10	-22	-34	-28	-42	-51	-44	-60	-32	-11	7	26	40	53	62	66	70	71	66	62	48	38	26	22	13	14
	11	11	-4	-11	-10	-4	20	16	21	29	45	58	69	74	80	91	90	87	84	84	78	71	65	52	40	47
	12	36	37	35	30	26	24	24	28	34	34	54	73	69	73	74	62	60	57	56	52	44	42	28	31	45
	13	31	30	27	24	24	21	22	30	43	61	77	85	87	91	93	102	95	106	93	67	46	61	34	1	56
	14	19	13	6	6	5	9	11	12	30	45	62	78	83	87	83	89	84	77	77	58	35	3	-13	40	40
	15	-27	19	-29	-39	-42	-52	-54	-10	12	40	58	73	83	97	105	114	112	115	114	92	31	60	52	48	41
	16	49	40	41	41	30	30	22	40	50	74	92	107	116	123	120	118	106	102	90	87	56	33	18	6	66
	17	-23	-29	-42	-36	-38	-14	-22	13	30	41	56	73	90	109	137	139	145	155	145	94	54	36	21	2	47
	18	-6	-4	-10	4	4	2	-9	4	18	38	42	52	59	72	75	75	76	74	62	43	19	-1	-15	-27	27
	19	-47	-65	-69	-72	-74	-73	-83	-29	3	26	46	63	71	73	79	83	92	88	79	58	9	-3	-10	4	10
	20	5	-14	-41	-47	-50	-59	-59	-17	18	49	65	75	89	93	109	99	105	104	100	80	49	37	46	31	36
	21	49	48	32	19	14	11	10	25	67	109	126	131	142	144	142	164	161	160	158	142	109	94	87	79	93
	22	70	58	57	41	-8	9	2	24	63	105	140	157	165	175	183	185	183	174	147	131	128	119	117	109	
	23	97	82	70	68	76	60	49	80	110	138	163	185	189	192	186	189	192	183	178	157	146	135	120	113	132
	24	101	93	78	59	50	30	26	80	110	138	163	185	189	192	186	189	192	183	178	157	146	135	120	113	129
	25	101	93	78	59	50	30	26	63	-42	-28	-12	8	16	26	28	38	39	46	48	41	25	13	5	-2	26
	26	-5	-12	-7	-8	-10	0	8	19	37	56	81	112	140	152	171	181	182	186	184	178	165	157	147	135	94
	27	125	113	98	89	88	80	78	81	78	77	85	100	111	119	123	119	78	66	74	75	75	72	65	57	89
	28	54	51	48	45	38	34	32	32	36	36	45	55	68	72	79	88	89	87	80	75	69	68	60	61	58
	29	56	44	41	33	32	31	31	32	39	44	52	62	68	57	51	43	39	38	32	32	23	15	8	12	38
	30	7	6	7	8	9	11	-3	17	23	45	61	73	77	96	106	114	115	119	114	99	70	36	66	51	55
MEAN	26	19	13	7	2	0	-3	10	29	48	64	78	87	94	99	101	100	98	93	77	59	49	42	35	51	
MOYENNE																										

\*TEMPERATURES IN TENTHS OF DEGREES CELSIUS  
 \*TEMPERATURES EN DIXIEME DEGRES CELSIUS

HOUR ->	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	DIR.	PEAK WIND SPEED	TIME
0	ENE	ENE	ENE	ENE	W	ENE	ENE	ESE	ESE	ESE	E	ESE	E	ESE	E	ESE	E	E	E	E	E	E	E	E	E		
1	ENE	ENE	ENE	ENE	W	ENE	ENE	ESE	ESE	ESE	E	ESE	E	ESE	E	ESE	E	E	E	E	E	E	E	E	E		
2	SE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE	SSE	S	WSW	SE	S	E	NW	W	NW	NW	NW	NW	NW	NW	NW	C	4	0
3	C	S	SSE	SSE	C	C	C	S	SSW	SSW	SW	SW	S	SW	SSW	WSW	SSW	SW	SSW	SSE	SSE	SSE	SSE	SSE	7		
4	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	44	12:28
5	S	SSE	SE	SSE	SSE	SE	SE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	SSE	41	11:48
6	SSE	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	SSE	S	S	S	S	S	S	S	S	S	S	S	33	12:24
7	SE	SSE	SSE	SSE	S	S	S	S	SSW	SSW	SSW	SSW	S	SSW	SW	WSW	WSW	WSW	SW	S	SSW	S	S	S	S		
8	SSW	SW	S	S	SSE	SSE	S	SSW	WSW	S	WNW	WNW	NW	W	W	NW	NW	NW	NW	N	N	N	N	N	NW	41	16:02
9	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	N	N	N	N	N	NW	35	11:56
10	NW	NE	NE	NW	NE	W	N	NE	ENE	NW	SE	SSW	N	SSW	NE	NE	N	NW	N	NW	NE	NE	NE	NE	NE		
11	NE	NW	NW	NW	ENE	E	ESE	ESE	SE	E	E	E	NE	ESE	E	E	E	E	E	E	E	E	E	E	ENE		
12	NE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSE	S	SSW	SSE	SSE	SSE	SSW	S	S	S	S	S	41	18:00
13	SSW	SSW	SW	SW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W	W	N	NE	NW	E	NW	NW		
14	NE	NE	NW	NW	NW	NW	NW	NE	NE	NE	NE	NE	NE	N	N	N	N	N	N	N	N	N	N	N	NW	39	13:00
15	NW	ENE	NE	NW	NW	NW	NW	NE	ENE	NE	ENE	NE	ENE	ESE	E	E	N	NE	ENE	E	ESE	E	ESE	ENE			
16	SE	SE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	WSW	WSW	WNW	WNW	WNW	WNW	NW	NE	N	NE	NE	NE	37	15:30

## MONTHLY CLIMATE DATA

WINNIPEG, MANITOBA

Month: APRIL Year: 1993

	CURRENT		NORMAL	
	VALUE	DATE	VALUE	DATE
Mean Maximum	10.9		9.8	
Mean Minimum	-2.4		-2.3	
Mean	4.3		3.8	
Extreme Maximum and Date	19.9	23	34.3	1980/21
Extreme Minimum and Date	-10.0	25	-27.8	1932/3
Rainfall (mm)	24.2		26.4	
Snowfall (cm)	0.0		9.4	
Total Precipitation (mm)	24.2		35.9	
Days With Thunder	2		0	
Days With Measurable Precipitation	4		8	
Sunshine Hours	231.7		232.4	
Wind (km/h)	14.3		20.0	
Heating Degree Days Below 18 C	411.4		428.6	
Growing Degree Days Above 5 C	29.5		54.1	
Heating Degree Days Below 0 C	4.3		30.4	
Cooling Degree Days Above 18 C	0.0		0.7	

**Highlights of the Month**

April was the fourth month in a row with less than normal precipitation making the January through April, 1993 the 7th driest January through April on Record. Total precipitation of 24.2 mm was about two thirds of normal. The rainfall total of 24.2 mm was just short of the long term average of 26.4 mm, however, only a trace of snow dusted the streets of Winnipeg while during an average April, 9.4 cm of snowfall can be expected. Temperatures hovered near normal for the entire month, with the mean temperature ending up one half degree above normal. However, while maximum temperatures were 1.1 degrees above normal, minimum temperatures were below normal by 0.1 degrees. Although maximum temperatures were above normal, this is the first April since 1979 where the highest temperature for the month was less than 20 degrees. In an average April the mercury peaks at 20 degrees or higher almost three times during the month. Total sunshine hours of 231.7 fell just minutes away from the normal 232.4 hours. Winds were slightly less than normal and originated from the south-southeast rather than the normal northerly direction.