

MONTHLY METEOROLOGICAL SUMMARY

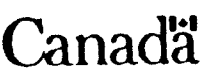
SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: JUNE
 AT/A: WINNIPEG INT'L AIRPORT

19 93

DATE	TEMPERATURE			DEGREE-DAYS			REL HUMIDITY		THUNDERSTORMS	PRECIPITATION			SNOW ON GROUND	WIND		BRIGHT SUNSHINE			
	MAXIMUM	MINIMUM	MEAN	HEATING	CROWING	COOLING	MAXIMUM	MINIMUM		RAINFALL	SNOWFALL	TOTAL PRECIP		AVERAGE SPEED	PREVAILING		MAX 2 MIN MEAN	INSOLATION	
	°C	°C	°C	BASE 18°C	BASE 5°C	BASE 18°C	°	°		mm	mm	mm		km/h	DIRECTION		SPEED & DIRECTION	HOURS	
1	17.8	1.9	9.9	8.1	4.9		87	31						N	N	28	11.9		
2	16.6	0.3	8.5	9.5	3.5		87	44						NNE	NNE	30	13.3		
3	19.2	1.6	10.4	7.6	5.4		87	27						N	NNW	20	12.1		
4	22.6	2.8	12.7	5.3	7.7		81	26						N*	WSW	11	13.4		
5	25.1	10.3	17.7	0.3	12.7		87	29		0.2	0.2			NE	NE	32	8.2		
6	19.6	6.5	13.1	4.9	8.1		93	37		TR	TR			N	N	28	11.7		
7	21.1	6.5	13.8	4.2	8.8		88	43		4.2	4.2			E	E	33	6.9		
8	19.3	11.7	15.5	2.5	10.5		94	73		15.4	15.4			NE*	NE	33	1.4		
9	25.2	13.4	19.3		14.3	1.3	94	47		0.4	0.4			N	NNE	24	8.0		
10	27.7	11.3	19.5		14.5	1.5	82	45	1	TR	TR			S	NNW	24	10.6		
11	30.2	16.0	23.1		18.1	5.1	88	43		TR	TR			SSE	SSE	33	11.2		
12	29.3	17.1	23.2		18.2	5.2	94	52	1	15.8	15.8			SSE	S	56	10.5		
13	21.4	13.3	17.4	0.6	12.4		94	49	1	4.2	4.2			S	S	37	8.1		
14	14.6	6.3	10.5	7.5	5.5		100	58		1.8	1.8			NW	NW	41	3.6		
15	21.3	5.6	13.5	4.5	8.5		93	46						S	S	28	8.9		
16	14.5	10.6	12.6	5.4	7.6		94	72		6.2	6.2			NNE	NNW	19	0.0		
17	20.0	6.2	13.1	4.9	8.1		100	32						N*	NNE	26	12.6		
18	22.6	7.1	14.9	3.1	9.9		93	35						SW	W	13	14.8		
19	24.1	9.1	16.6	1.4	11.6		87	38						S	S	22	15.1		
20	29.5	11.3	20.4		15.4	2.4	83	45	1	6.8	6.8			S	S	30	13.9		
21	27.2	15.8	21.5		16.5	3.5	94	32		0.6	0.6			NE	NNE	28	14.4		
22	29.5	16.8	23.2		18.2	5.2	94	43	1	8.8	8.8			SSE	SE	37	9.3		
23	25.4	16.0	20.7		15.7	2.7	94	24	1	3.8	3.8			S*	SSW	22	9.3		
24	20.7	12.3	16.5	1.5	11.5		94	49	1	0.8	0.8			S	S	44	8.0		
25	15.7	10.4	13.1	4.9	8.1		88	63		2.0	2.0			W	W	41	2.1		
26	13.5	8.9	11.2	6.8	6.2		93	67		0.4	0.4			W	W	39	0.0		
27	12.9	8.2	10.6	7.4	5.6		93	66		TR	TR			N	NW	30	1.2		
28	14.8	9.1	12.0	6.0	7.0		93	67						NNE	NE	13	0.1		
29	19.2	11.3	15.3	2.7	10.3		82	56		TR	TR			E*	ESE	33	0.0		
30	16.1	11.8	14.0	4.0	9.0		94	59		7.4	7.4			SE	ESE	28	0.0		
31																			
MEAN	21.2	9.7	15.5	TOTAL	TOTAL	TOTAL	91	47	TOT	TOTAL	TOTAL	TOTAL		PREVAILING	MAXIMUM	TOTAL			
MOTENNE				103.1	313.8	26.9			7	78.8	0.0	78.8		S	\$ 56	240.6			
NORMAL	23.4	10.4	16.9	69.0	357.8	36.8			6	83.8	TR	83.8		S		290.6			
DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS										DAYS WITH TOTAL PRECIPITATION					DAYS WITH SNOWFALL				
BELOW 10°C			THIS YEAR	PREVIOUS YEAR	NORMAL	ABOVE 5°C			THIS YEAR	PREVIOUS YEAR	NORMAL	02	10	20	30	40	50		
AU-DESSOUS DE 10°C			ANNEE EN COURS	PRECEDENTE	NORMALE	AU-DESSUS DE 5°C			ANNEE EN COURS	PRECEDENTE	NORMALE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE	OR MORE		
TOTAL FOR MONTH			103.1	115.6	69.0	TOTAL FOR MONTH			313.8	298.3	357.8	OR PLUS	OR PLUS	OR PLUS	OR PLUS	OR PLUS	OR PLUS		
TOTAL DU MOIS						TOTAL DU MOIS													
ACCUMULATED			5963.7	5596.9	5874.1	ACCUMULATED			536.4	573.7	625.9	16	11	10	2	0	0		
SINCE JULY 1						SINCE APRIL 1													
DEPUIS LE 1er JUILLET						DEPUIS LE 1er AVRIL													

UDC 551 508 1 () Note/Arts: 1 Climatological Day/Journee 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 max. * note 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

JUNE 1993
 PAGE 3

HR	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	52	55	42	33	31	22	37	84	120	139	154	144	161	168	168	161	156	157	153	136	118	93	47	44	103	
A	33	39	34	21	7	15	25	73	108	125	142	140	147	142	153	156	163	158	154	142	129	99	79	68	98	
T	55	52	53	35	31	22	48	95	119	131	153	166	176	179	185	186	189	183	174	137	104	84	102	118		
E	88	76	54	52	45	43	62	109	148	172	184	191	192	202	199	202	207	212	201	202	169	151	133	138	143	
	138	141	134	128	114	110	135	155	182	207	222	231	225	224	211	217	223	219	218	199	165	162	138	138	177	
	111	108	106	101	99	99	101	109	126	142	150	158	170	174	181	187	186	190	187	179	166	129	115	76	140	
	65	72	105	106	104	102	107	108	130	137	155	178	189	200	197	205	194	201	189	186	178	175	172	165	138	
	123	119	117	117	120	122	124	131	134	142	145	150	159	164	183	185	186	165	172	172	167	164	161	149	183	
	148	144	142	139	135	135	137	143	160	159	183	200	213	226	239	246	242	237	233	220	207	186	181	147	183	
	147	125	140	125	129	128	148	171	190	215	226	234	249	264	273	267	268	261	229	203	205	206	192	185	199	
	179	174	167	166	162	160	166	185	204	226	252	271	283	287	290	299	288	286	284	271	264	254	248	237	233	
	229	221	204	203	206	199	199	220	233	240	245	263	276	275	282	282	292	285	276	268	259	252	248	237	241	
	183	161	159	158	155	155	162	169	178	186	200	205	205	208	198	202	197	186	190	175	165	156	156	139	177	
	133	122	128	123	114	101	94	92	96	95	91	99	113	111	115	128	129	137	139	132	115	93	80	74	111	
	70	62	73	70	71	80	95	111	129	152	171	185	200	207	200	187	186	190	190	186	172	156	152	151	144	
	144	137	131	121	125	120	118	117	122	126	127	127	129	132	128	125	125	128	129	128	127	121	118	116	126	
	106	99	91	84	74	64	89	111	139	158	170	179	185	185	193	194	190	190	195	184	153	138	134	112	142	
	117	99	93	84	83	78	99	138	168	186	196	202	204	209	215	220	224	219	220	215	209	190	164	145	166	
	133	128	113	111	98	96	129	160	174	202	217	220	225	229	234	238	236	236	235	228	215	195	183	167	183	
	163	146	136	133	117	116	131	157	185	206	225	238	249	264	273	289	291	292	291	283	259	246	229	221	214	
	201	181	186	177	161	166	168	202	221	237	246	259	262	267	269	267	261	252	242	227	205	215	217	211	221	
	208	184	182	177	175	172	178	200	218	234	253	266	277	286	289	284	278	200	194	205	233	210	206	178	219	
	169	169	166	166	170	169	166	161	168	186	200	214	223	227	239	248	251	252	243	246	233	210	215	215	204	
	187	192	188	183	176	150	137	125	125	140	126	130	159	180	192	180	179	179	163	162	150	142	132	130	159	
	126	118	117	117	117	111	106	108	116	121	124	135	138	139	138	138	142	144	152	130	125	122	117	113	126	
	113	112	107	104	102	101	98	93	101	108	110	118	125	126	126	134	130	129	129	108	102	98	97	94	111	
	89	90	86	84	85	84	89	97	96	96	104	103	107	111	116	122	123	126	122	118	113	111	109	109	104	
	107	101	98	96	95	91	97	105	109	112	117	125	131	138	142	141	142	144	140	138	138	138	136	136	122	
	134	132	118	117	115	115	116	126	136	153	166	180	182	182	189	185	172	172	175	171	168	164	164	160	154	
	157	154	154	152	149	146	140	123	119	119	123	129	130	132	140	142	149	155	157	160	157	152	150	144	143	
MEAN	130	124	121	116	112	109	117	133	149	162	173	182	190	195	199	200	200	196	193	185	173	161	150	140	159	
MOYENNE																										

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

HOUR ->	DIR.																								PEAK WIND SPEED	TIME
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
D 1	WNW	W	W	W	WNW	WNW	N	NW	NW	N	NW	N	NW	N	NW	N	NW	N	NW	N	NW	N	NW	N	37	16:53
A 9	11	11	11	9	6	9	7	11	15	13	17	20	20	17	9	17	19	28	22	15	7	7	4			
Y 2	N	N	N	NW	NW	W	NNE	ENE	NE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	N	N	37	10:40	
O 11	15	7	7	11	9	7	17	15	13	20	22	24	30	26	26	26	24	26	19	9	7	11				
F 3	N	NW	NW	NW	N	NNE	N	NNE	NE	NE	N	NNE	NNE	NNE	NNE	N	NNE	N	N	NW	NW	NW	NW	32	12:59	
M 11	4	6	6	6	4	4	11	11	9	13	17	19	17	17	20	15	17	19	9	9	6	9	9			
O 4	WNW	C	N	E	C	C	W	C	SW	WSW	E	NE	NE	WNW	WSW	SW	NW	NW	N	NW	N	E	S	S		
N 9	0	4	4	0	0	9	0	7	4	6	7	7	6	11	11	7	11	11	11	7	4	4	6	9		
T 5	S	SSW	SW	WSW	WSW	W	WSW	SW	W	W	WSW	SW	N	NE	NE	NE	ENE	SSE	NE	ENE	NNE	NNE	NNE	41	19:15	
H 7	9	11	13	13	15	9	9	9	15	17	15	15	11	13	6	9	6	4	32	17	19	19				
6	N	NNE	NNE	N	N	N	NNE	NNE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	41	10:55	
20	24	13	26	22	22	15	19	24	20	28	28	26	28	20	20	17	13	13	9	15	7	6	6			
7	NNE	E	E	E	ENE	E	E	ENE	E	E	ESE	SE	ESE	E	E	E	E	ENE	E	ENE	ENE	E	E	44	16:38	
6	7	6	11	7	7	13	11	15	13	20	26	22	26	26	30	33	30	30	26	22	28	30	26			
8	E	E	E	E	E	E	ENE	ENE	NE	ENE	NE	NE	NE	ENE	NE	ENE	NE	NE	NNE	NNE	NE	NNE	NNE	48	00:41	
30	32	30	28	24	24	19	15	19	22	20	28	28	33	28	26	19	13	22	24	30	26	28				
9	NNE	NNE	NNE	N	NNE	N	N	N	NNW	N	N	NNW	N	NNW	NW	NW	NW	W	W	W	W	W	WSW	37	12:50	
15	24	22	17	13	19	15	19	20	22	24	22	24	15	19	17	17	13	13	11	7	6	6				
10	S	SSW	C	S	SE	ENE	ESE	SSE	S	S	SSW	S	S	WSW	WSW	S	S	SW	NNW	ESE	SSE	SSE	SSE	57	18:10	
2	6	0	9	4	7	7	9	9	13	15	22	17	20	15	15	9	13	24	15	19	24	20				
11	SSE	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	57	15:29	
20	20	22	20	20	15	15	19	19	19	19	19	24	30	30	33	32	28	33	32	30	32	28	26			
12	SSE	SSE	SE	SE	SSE	SSE	S	S	S	S	SSE	S	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	69	16:47	
28	26	19	22	28	30	32	37	41	41	37	41	43	46	44	37	46	56	50	39	26	32	41	13			
13	SSW	S	SE	S	S	SSE	SSE	S	S	S	S	S	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	50	12:53	
33	13	11	20	13	15	17	20	20	24	30	35	33	35	37	33	32	28	28	22	28	22	22	22			
14	SW	SW	WSW	W	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	N	N	C	C	C	56	08:43	
22	17	24	35	37	28	33	33	33	33	37	41	39	37	32	35	32	33	24	11	0	0	0	0			
15	S	SSW	SSW	S	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	S	SSE	SE	SSE	SE	SE	35	08:32	
4	7	11	9	15	19	17	20	20	26	26	24	22	28	19	22	17	17	19	20	9	9	13	9			
16	S	S	S	SSE	NE	ESE	ESE	ENE	ENE	NE	NE	NNE	NNE	NE	NNE	NNE	N	N	N	N	N	N	N			
11	13	9	6	4	6	13	11	9	13	15	17	15	17	13	11	9	13	9	11	9	7	7	19			

DEGREE DAYS SUMMARY FOR: WINNIPEG INT'L AIRPORT ON JUNE 1993

DAY	MEAN TEMP	ABOVE + 24	ABOVE + 18	ABOVE + 5	ABOVE ZERO	BELOW ZERO	BELOW + 18
1	9.9			4.9	9.9		8.1
2	8.5			3.5	8.5		9.5
3	10.4			5.4	10.4		7.6
4	12.7			7.7	12.7		5.3
5	17.7			12.7	17.7		0.3
6	13.1			8.1	13.1		4.9
7	13.8			8.8	13.8		4.2
8	15.5			10.5	15.5		2.5
9	19.3		1.3	14.3	19.3		
10	19.5		1.5	14.5	19.5		
11	23.1		5.1	18.1	23.1		0.6
12	17.4			12.4	17.4		7.5
13	10.5			5.5	10.5		4.5
14	13.5			8.5	13.5		
15	12.6			7.6	12.6		5.4
16	13.1			8.1	13.1		4.9
17	14.9			9.9	14.9		3.1
18	16.6			11.6	16.6		1.4
19	20.4		2.4	15.4	20.4		
20	21.5		3.5	16.5	21.5		1.5
21	23.7		5.2	18.7	23.7		4.9
22	20.7		2.7	15.7	20.7		
23	16.5			11.5	16.5		1.5
24	13.1			8.1	13.1		
25	11.2			6.2	11.2		6.8
26	10.6			5.6	10.6		7.4
27	12.0			7.0	12.0		6.0
28	15.3			10.3	15.3		2.7
29	14.0			9.0	14.0		4.0
30							
TOTAL		0.0	26.9	313.8	463.8	0.0	103.1

DAILY WEATHER SUMMARY FOR JUNE, 1993 AT WINNIPEG, MANITOBA

1. Sunny becoming mainly cloudy by late morning, clearing by early evening. Maximum temperature slightly below normal, minimum below normal. Winds light, moderate periods in the late afternoon and early evening.
2. Variable cloudiness. Maximum temperature below normal, minimum well below normal. Winds light increasing to moderate by late morning, decreasing to light by early evening.
3. Mainly cloudy clearing by late afternoon. Maximum temperature near normal, minimum below normal. Winds light, occasional afternoon gusts.
4. Sunny becoming mainly cloudy by late evening. Maximum temperature near normal, minimum below normal. Winds light.
5. Sunny becoming mainly cloudy by early afternoon, late evening showers. Maximum temperature slightly above normal, minimum near normal. Winds light.
6. Overcast clearing by midmorning. Maximum temperature near normal, minimum slightly below normal. Winds light occasionally moderate with morning gusts.
7. Clear overnight becoming overcast by early morning, showers beginning in the late evening. Maximum temperature near normal, minimum slightly below normal. Winds light becoming moderate and gusty by late morning.
8. Overcast with showers. Temperatures near normal. Winds moderate, early morning and afternoon gusts.
9. Overcast with early morning showers, clearing by late morning, becoming cloudy by mid-afternoon. Temperatures slightly above normal. Winds light.
10. Variable cloudiness with late afternoon thundershowers. Maximum temperature above normal, minimum near normal. Winds light, occasionally moderate late afternoon.
11. Clear becoming mainly cloudy by midmorning. Maximum temperature well above normal, minimum above normal. Winds light increasing to moderate gusting strong early afternoon.
12. Mainly cloudy with showers and thundershowers beginning mid-evening. Maximum temperature above normal, minimum well above normal. Winds moderate increasing to strong gusting gale during thundershowers.
13. Overcast with showers and thundershowers ending overnight. Clearing by early evening. Temperatures near normal. Winds light to moderate with occasional strong gusts early afternoon.
14. Mainly cloudy with showers, drizzle and fog becoming clear by early evening. Maximum temperature well below normal, minimum below normal. Winds light to moderate with occasional strong gusts overnight to early afternoon.
15. Clear overnight becoming mainly cloudy by early morning. Maximum temperature near normal, minimum temperature below normal. Winds light to moderate.
16. Overcast with rain and showers becoming mainly cloudy by late evening. Maximum temperature well below normal, minimum near normal. Winds light.
17. Clear overnight becoming mainly cloudy by early morning and clearing by late evening. Maximum temperature slightly below normal, minimum below normal. Winds light to moderate.
18. Clear overnight variable cloudiness early morning clearing by late morning. Maximum temperature near normal, minimum slightly below normal. Winds light.
19. Clear. Temperatures near normal. Winds light increasing to moderate and gusty by early afternoon.
20. Clear becoming mainly cloudy with thundershowers by early evening. Maximum temperature above normal, minimum near normal. Winds light increasing to moderate and gusty by early afternoon.
21. Mainly cloudy overnight with thundershowers clearing by early morning with some haze and smoke by early afternoon. Maximum temperature slightly above normal, minimum near normal. Winds light to moderate.
22. Mainly clear with smoke becoming overcast with thundershowers by early afternoon. Temperatures above normal. Winds moderate with strong gusts.
23. Overcast and mainly cloudy with showers overnight and in the late evening. Maximum temperature near normal, minimum above normal. Winds light.
24. Overcast with showers becoming variable by late afternoon. Maximum temperature slightly below normal, minimum near normal. Winds light to moderate with strong to gale force gusts by mid-afternoon.
25. Mainly cloudy to overcast with showers, drizzle and fog. Maximum temperature well below normal, minimum near normal. Winds moderate gusting to strong.
26. Overcast with rain and showers. Maximum temperature well below normal, slightly below normal. Winds moderate gusting to strong in midmorning.
27. Cloudy to overcast. Maximum temperature well below normal, minimum below normal. Winds light increasing to moderate with gusts by early morning decreasing to light by mid-afternoon.
28. Mainly overcast. Maximum temperature well below normal, minimum slightly below normal. Winds light.
29. Cloudy to overcast with some mid-afternoon showers. Maximum temperature below normal, minimum near normal. Winds light increasing to moderate and gusty by early morning.
30. Mainly cloudy and overcast with showers early morning, rain and fog early morning to early afternoon, clearing by late evening. Maximum temperature well below normal, minimum near normal. Winds moderate decreasing to light by late morning.