

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS SEPTEMBER  
 AT/A WINNIPEG INT'L AIRPORT

19 93

LAT 049° 054' N		LONG 097° 017' W		ELEVATION ALTITUDE 240		METRES (ASL) METRES (NMM)		STANDARD TIME USED HEURE NORMALE UTILISEE CENTRAL											
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL HUMIDITY HUMIDITÉ REL		PRECIPITATION PRÉCIPITATIONS			WIND VENT		BRIGHT SUNSHINE INSOLATION EFFECTIVE HOURS HEURES					
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE RÉFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP PRÉCIP TOTALE	SNOW ON GROUND NEIGE AU SOL		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE	MAX 2 MIN MEAN SPEED VITESSE MOYENNE MAX SUR 2 MIN & DIRECTION		
	°C	°C	°C	BASE 18°C	BASE 5°C	BASE 18°C	%	%		mm	cm	mm	cm	km/h		km/h			
1	16.5	12.0	14.3	3.7	9.3		100	72		2.0		2.0		6.6	SSE	SSE 19	0.0		
2	14.7	7.3	11.0	7.0	6.0		94	51		0.4		0.4		18.0	N	N 28	4.8		
3	24.2	7.7	16.0	2.0	11.0		94	50		4.0		4.0		16.1	S	S 24	5.6		
4	13.5	5.9	9.7	8.3	4.7		94	44		0.8		0.8		18.0	WNW	WNW 30	10.5		
5	15.2	6.3	10.8	7.2	5.8		93	41		0.8		0.8		11.7	W	W 24	5.1		
6	17.8	4.9	11.4	6.6	6.4		93	45		TR		TR		15.0	W	W 28	10.7		
7	17.9	6.3	12.1	5.9	7.1		93	45						15.0	W	W 28	11.1		
8	19.8	10.3	15.1	2.9	10.1		94	59	1	5.0		5.0		18.6	S	S 26	0.8		
9	15.1	5.9	10.5	7.5	5.5		88	47						28.5	NW	NW 46	11.0		
10	15.6	2.2	8.9	9.1	3.9		93	48						14.0	W	WNW 24	11.1		
11	22.7	8.6	15.7	2.3	10.7		82	49						23.1	SSE	SSE 35	7.0		
12	15.2	4.7	10.0	8.0	5.0		100	82		1.6		1.6		23.0	NNE	NNE 33	0.0		
13	6.6	2.7	4.7	13.3			100	75		2.2		2.2		23.0	N	N 33	0.0		
14	9.9	3.5	6.7	11.3	1.7		93	50		TR		TR		9.2	NNW	NNW 15	7.5		
15	12.5	2.9	7.7	10.3	2.7		87	54						18.7	SSE	SSE 30	1.6		
16	14.5	4.6	9.6	8.4	4.6		93	55		TR		TR		21.2	WNW	SW 33	4.4		
17	16.7	1.0	8.9	9.1	3.9		93	45		TR		TR		15.1	WSW	SW 30	6.0		
18	14.4	4.3	9.4	8.6	4.4		87	44						11.7	F	SE 17	8.3		
19	19.4	4.6	12.0	6.0	7.0		87	37						15.5	S	S 26	8.7		
20	17.7	7.4	12.6	5.4	7.6		93	59						11.9	SE	S 20	8.7		
21	12.0	7.7	9.9	8.1	4.9		100	88		3.0		3.0		14.8	S	NNE 24	0.0		
22	13.5	4.0	8.8	9.2	3.8		100	41		1.4		1.4		20.7	NNW	NNW 32	5.8		
23	20.0	3.5	11.8	6.2	6.8		87	40						15.9	SW	SW 24	10.3		
24	21.6	6.3	14.0	4.0	9.0		82	38						20.5	SW	WNW 32	10.8		
25	21.4	6.4	13.9	4.1	8.9		93	40						13.3	NE	WNW 32	4.2		
26	12.5	1.0	6.8	11.2	1.8		100	53		0.4		0.4		27.5	NW	NW 46	3.7		
27	15.7	2.6	9.2	8.8	4.2		81	48		TR		TR		19.4	S	NNW 39	7.2		
28	7.9	-0.6	3.7	14.3			93	66		0.2		0.2		22.7	N	NW 37	4.8		
29	11.7	-1.7	5.0	13.0			93	40						14.6	S	S 33	8.3		
30	17.5	2.5	10.0	8.0	5.0		81	50		0.6		0.6		28.7	S	S 46	4.4		
31																			
MEAN MOYENNE	15.8	4.8	10.3	229.8	161.8	0.0	92	52	TOT 1	22.4	0.0	22.4		17.7	PREVAILING NW	MAXIMALE NW 46	TOTAL 182.4		
NORMAL NORMALE	18.6	6.1	12.4	178.6	224.0	9.2			3	50.9	0.4	51.3		18.0	S		189.3		
DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS										DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES					DAYS WITH SNOWFALL JOURS AVEC CHUTE DE NEIGE				
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	02 OR MORE OU PLUS	10 OR MORE OU PLUS	20 OR MORE OU PLUS	30 OR MORE OU PLUS	02 OR MORE OU PLUS	10 OR MORE OU PLUS	20 OR MORE OU PLUS	30 OR MORE OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS		229.8	211.2	178.6	TOTAL FOR MONTH TOTAL DU MOIS		161.8	183.8	224.0										
ACCUMULATED SINCE JULY 1 ACCUMLÉE DEPUIS LE 1 <sup>er</sup> JUILLET		308.6	352.8	242.8	ACCUMULATED SINCE APRIL 1 ACCUMLÉE DEPUIS LE 1 <sup>er</sup> AVRIL		1490.4	1447.3	1721.1	13	7	5	0	0	0	0	0		

UDC 551 506 1 1

Note/Aviz 1 Climatological Day/Journée climatologique 00 01 C ST - 23 00 C ST

2 Normal/Normale 1961-1990

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.)



WINNIPEG INT'L AIRPORT

DRY BULB TEMPERATURE SUMMARY  
SUMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

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	132	133	133	134	126	122	123	127	136	146	150	155	156	154	160	162	164	163	164	154	149	143	144	143	145
A	142	140	132	125	120	115	110	105	107	109	117	115	126	127	142	139	138	129	124	106	90	86	74	81	117
T	77	84	88	88	96	101	103	108	132	159	186	207	214	232	230	228	182	176	154	151	148	136	128	117	147
E	117	107	105	106	93	72	61	69	84	97	104	111	120	127	129	121	132	123	115	106	102	93	79	84	102
	91	80	65	83	82	84	85	87	102	113	122	132	147	146	139	140	126	112	116	102	88	77	80	74	103
	73	64	62	65	54	50	50	59	77	103	126	147	162	169	166	136	171	162	153	117	124	121	107	97	109
	89	86	72	65	76	85	77	75	94	127	143	152	157	160	174	178	174	168	157	137	126	125	118	115	122
	103	105	117	125	122	126	129	128	143	161	166	165	175	174	183	186	193	193	185	160	138	141	142	138	150
	131	127	127	128	128	118	113	102	102	100	119	124	128	131	138	135	140	145	135	112	94	72	72	75	117
	70	52	51	46	30	28	23	48	73	101	121	129	132	144	150	151	154	151	143	127	112	101	95	97	97
	93	95	93	92	91	88	86	91	112	134	148	185	196	215	217	221	225	222	217	199	185	175	166	159	154
	152	146	142	144	142	126	116	126	131	135	140	125	109	99	90	76	70	68	65	62	52	50	51	50	103
	47	44	42	41	39	30	29	33	38	41	44	51	63	62	66	59	57	55	58	56	54	53	52	49	48
	47	48	45	40	40	40	39	42	59	64	68	71	81	84	85	97	97	92	88	76	50	44	42	39	62
	36	38	33	31	33	32	31	37	50	61	78	88	100	105	101	106	119	125	118	112	111	112	106	105	78
	102	97	91	84	80	77	75	72	92	87	98	120	119	115	129	131	136	120	105	90	84	77	72	56	96
	46	38	35	31	30	16	12	23	41	54	92	118	134	143	149	154	156	144	124	96	92	72	57	67	80
	70	63	68	71	61	61	47	52	70	83	97	107	115	117	127	135	140	141	133	113	104	102	100	91	95
	77	72	66	62	61	55	47	49	74	108	141	166	178	186	189	188	183	178	164	151	136	123	109	100	119
	101	98	102	90	86	82	75	77	90	104	122	136	145	161	165	171	175	175	160	142	128	117	108	103	121
	101	101	96	89	87	87	82	81	77	93	104	109	110	113	117	118	118	118	94	93	91	85	86	82	80
	77	73	72	66	62	56	50	45	48	41	61	73	95	117	118	126	131	134	120	98	77	72	69	63	81
	59	58	49	44	47	49	38	44	71	93	115	138	160	182	181	197	199	189	166	149	125	122	116	95	112
	95	94	86	88	75	66	75	68	98	128	165	189	205	213	211	200	200	183	155	130	117	116	106	97	132
	97	84	83	75	88	80	68	77	98	113	130	147	165	193	197	204	211	202	185	171	154	142	130	127	134
	125	112	103	95	80	72	63	54	54	59	66	73	71	77	88	74	83	72	66	37	30	15	23	23	67
	28	35	37	40	41	44	47	50	51	59	81	99	120	141	149	157	149	131	123	90	66	78	80	67	82
	59	66	57	53	47	47	45	43	42	48	74	68	75	77	74	57	55	59	38	24	1	0	0	-2	46
	-6	-7	-10	-6	2	6	11	11	23	44	67	78	91	98	108	114	111	109	103	94	91	82	84	84	58
	86	87	90	89	83	75	66	63	70	84	96	95	115	147	162	164	153	135	123	108	99	68	55	40	98

MEAN	84	81	78	76	73	70	66	68	81	95	111	122	132	140	144	144	145	138	128	112	100	93	88	84	102
MOYENNE																									

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

WIND SUMMARY  
SUMMAIRE DES VENTS

WINNIPEG INT'L AIRPORT

SEPTEMBER 1993  
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D A Y	HOUR ->	WIND																								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				
1	SSE SSE SSE SSE	SE	SE	SSE	ESE	SSE	S	SSW	SW	W	SE	ESE	SSE	SSE	SSW	C	N	C	C	NNE	N								
2	N NNE NNE NNE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	WNW	35	15:08
3	S S S S	S	SSW	S	S	SSW	S	SSW	SW	SSW	SSW	SW	WSW	W	NNE	ESE	NE	C	N	N	N	N	N	N	N				
4	NW NNW NW NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	46	15:45	
5	WSW W W W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	WSW	46	16:12	
6	W W W W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	WNW	48	14:35	
7	W W W W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W				
8	S S S S	S	S	S	S	S	S	S	SSW	SSW	SW	W	NW	NW	W	WSW	W	NW	N	W	NNW	NNW	NNW	NNW	NNW	NNW	46	18:50	
9	NW NNW NNW NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	63	08:20	
10	W W NNW NNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	33	12:45	
11	SE SSE SSE SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	50	11:07	
12	SSE S SW NE	E	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	SSW	52	19:58	
13	NNE NNE NNE NNE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	NNW	48	13:12	
14	NNW NNW N NNW	N	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N				
15	SSE SSE SSE SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	41	23:03	
16	SSE SSE SSE SSE	S	S	SW	W	NNW	SW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	41	12:45	

DAILY WEATHER SUMMARY FOR SEPTEMBER, 1993      AT WINNIPEG, MANITOBA

1. Cloudy to overcast with showers beginning near noon. Maximum temperature below normal, minimum near normal. Winds light.
2. Showers overnight, cloudy through the day, clearing early evening. Maximum temperature well below normal, minimum near normal. Winds increasing to moderate by early morning, decreasing to light early evening.
3. Cloudy with showers in the late afternoon. Maximum temperature slightly above normal, minimum near normal. Winds light.
4. Showers overnight, mainly sunny in the morning variable cloudiness through the rest of the day. Maximum temperature well below normal, minimum slightly below normal. Winds light increasing to moderate mid-morning, decreasing to light late afternoon.
5. Cloudy with occasional showers. Maximum temperature below normal, minimum slightly below normals. Winds light.
6. Mainly sunny becoming variable cloudiness near noon. Temperatures slightly below normal. Winds light, except for a period of moderate early afternoon to early evening.
7. Sunny becoming cloudy early evening. Maximum temperature slightly below normal, minimum near normal. Winds light.
8. Cloudy to overcast, with showers till early afternoon, and thunder and rain showers early evening. Maximum temperature near normal, minimum slightly above normal. Winds moderate overnight decreasing to light mid-morning, increasing to moderate early evening.
9. Variable cloudiness, clearing late afternoon. Maximum temperature below normal, minimum near normal. Winds moderate increasing to moderate gusting strong early morning, decreasing to light early evening.
10. Sunny with some cloudy periods around noon. Temperatures below normal. Winds light, except for a period of moderate near noon to mid-afternoon.
11. Variable cloudiness, clearing early evening. Maximum temperature slightly above normal, minimum near normal. Winds moderate, occasionally gusting to strong noon to late afternoon, decreasing to light early evening.
12. Overcast with drizzle and fog beginning near noon. Maximum temperature below normal, minimum near normal. Winds light increasing to moderate gusting to strong by early afternoon, decreasing to moderate mid-evening.
13. Overcast with drizzle and showers, ending mid-afternoon. Maximum temperature well below normal, minimum slightly below normal. Winds moderate, occasionally gusting in the afternoon, decreasing to light early evening.
14. Cloudy becoming sunny mid-afternoon. Maximum temperature well below normal, minimum slightly below normal. Winds light.
15. Cloudy to overcast. Maximum temperature below normal, minimum slightly below normal. Winds light increasing to moderate near noon.
16. Cloudy, with showers early evening. Maximum temperature below normal, minimum near normal. Winds light to moderate, decreasing to light early evening.
17. Cloudy with showers late afternoon. Maximum temperature near normal, minimum below normal. Winds light except for a period of moderate from noon to late afternoon.
18. Mainly sunny. Maximum temperature slightly below normal, minimum near normal. Winds light.
19. Sunny with a few cloudy periods in the afternoon. Temperatures near normal. Winds light, occasionally moderate in the afternoon.
20. Cloudy becoming sunny mid-afternoon. Temperatures near normal. Winds light.
21. Overcast with showers and fog. Maximum temperature near normal, minimum slightly above normal. Winds light, occasionally moderate early evening.
22. Overcast with drizzle and showers ending mid-morning, becoming sunny mid-afternoon. Maximum temperature slightly below normal, minimum near normal. Winds increasing to moderate overnight, decreasing to light late afternoon.
23. Mainly sunny. Maximum temperature slightly above normal, minimum near normal. Winds light.
24. Sunny. Maximum temperature above normal, minimum near normal. Winds increasing to moderate early morning, decreasing to light mid-evening.
25. Cloudy. Maximum temperature above normal, minimum near normal. Winds light increasing to moderate late evening.
26. Overcast becoming cloudy mid-morning, showers beginning overnight ending mid-afternoon. Temperatures slightly below normal. Winds moderate gusting strong, decreasing to light early evening.
27. Overcast becoming sunny with cloudy periods mid-morning, with showers mid-morning to early afternoon. Temperatures near normal. Winds light to moderate through the day, becoming moderate late evening.
28. Cloudy to overcast with periods of showers until late afternoon. Maximum temperature well below normal, minimum below normal. Winds moderate occasionally gusting strong, decreasing to light early evening.
29. Cloudy. Maximum temperature slightly below normal, minimum below normal. Winds light, increasing to moderate early evening.
30. Cloudy with scattered showers beginning near noon. Temperatures near normal. Winds increasing to moderate gusting strong overnight, decreasing to light to moderate mid-morning.