



Environment Canada  
Atmospheric Environment Service

Environnement Canada  
Service de l'environnement atmosphérique

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: OCTOBER / OCTOBRE 19 89

AT/A WINNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WINNIPEG

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION ALTITUDE: 239.6		METRES (ASL) MÉTRES (NMM)		STANDARD TIME USED: CENTRAL											
DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT		BRIGHT SUNSHINE INSOLATION EFFECTIVE			
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE RÉFÉRIÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE		MAX 2 MIN MEAN SPEED & DIRECTION VITESSE MOYENNE MAX SUR 2 MIN & DIRECTION		
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	BASE 18.0°C	%	%	mm	cm	mm	km/h		km/h	HOURS HEURES				
1	17.7	0.2	9.0	9.0	4.0		97	71	0.4	TR.	0.4	31.9	N	N 43*	0.0				
2	3.3	-2.0	0.7	17.3			86	47		TR.	TR.	21.9	NW	N 33	1.1				
3	10.9	-4.3	3.3	14.7			71	29				9.8	WSW	W 15	10.4				
4	13.9	-4.3	4.8	13.2			99	29	4.8		4.8	13.1	SW	SSW20*	4.3				
5	10.1	4.3	7.2	10.8	2.2		100	62	1.2		1.2	22.1	NW	WNW41	0.5				
6	7.7	-4.4	1.7	16.3			86	54				22.6	NW	NNW37	3.8				
7	9.8	-6.9	1.5	16.5			93	33				8.5	W	NNW17	9.5				
8	10.6	-3.4	3.6	14.4			88	35				14.4	S	S 22*	4.9				
9	12.9	2.3	7.6	10.4	2.6		98	39	1.2		1.2	19.8	WNW	WNW37*	3.2				
10	19.2	1.5	10.4	7.6	5.4		91	32				17.5	S	S 31	5.1				
11	16.4	8.2	12.3	5.7	7.3		73	33				23.0	WNW	WNW41	6.5				
12	18.3	1.2	9.8	8.2	4.8		70	23				14.3	WSW	WNW28*	9.5				
13	14.7	-1.1	6.8	11.2	1.8		86	44	0.2		0.2	11.6	ESE	ESE22*	3.6				
14	13.5	-4.4	4.6	13.4			99	50	0.4		0.4	6.1	E	ENE13	4.2				
15	7.6	-2.2	2.7	15.3			100	72	3.2		3.2	17.4	NNE	N 33	1.4				
16	6.9	-1.2	2.9	15.1			100	54	2.0	0.6	2.6	4.7	WNW	WSW11*	1.5				
17	4.8	-3.4	0.7	17.3			100	59				10.4	N	N 20	4.8				
18	8.0	-6.5	0.8	17.2			94	37				10.9	SSW	WSW20*	10.1				
19	14.3	-3.8	5.3	12.7	0.3		70	21				20.8	S	S 33	8.4				
20	15.1	-5.4	4.9	13.1			82	33				6.5	ENE	SSE13	9.6				
21	17.0	-0.6	8.2	9.8	3.2		82	28				20.3	S	SSE39	3.7				
22	20.9	5.6	13.3	4.7	8.3		58	31				10.3	S	S 22*	6.1				
23	19.4	3.3	11.4	6.6	6.4		72	37				10.7	WNW	W 19*	8.7				
24	23.0	2.9	13.0	5.0	8.0		90	28				16.4	SSE	SSE30	5.2				
25	23.0	3.5	13.3	4.7	8.3		83	34				5.9	CALM	SSW15	8.6				
26	20.7	6.6	13.7	4.3	8.7		95	67	1.6		1.6	8.8	S	S 17*	0.9				
27	20.5	2.2	11.4	6.6	6.4		92	59	0.2		0.2	30.8	S	S 44	0.0				
28	7.8	-3.1	2.4	15.6			94	62				9.9	W	W 15*	9.5				
29	4.6	-6.0	-0.7	18.7			95	69	TR.		TR.	9.9	NNW	NW 26	2.1				
30	3.1	-8.1	-2.5	20.5			92	51				6.0	NNW	N 15	8.7				
31	0.2	-9.3	-4.6	22.6			97	58				13.9	N	N 28	0.0				
MEAN MOYENNE	12.8	-1.2	5.8	378.5	77.7	0.0	85	43	1	TOTAL	15.2	1.4	16.6	14.5	PREVAILING DIRECTION DOMINANTE	MAXIMALE	44	TOTAL	155.9
NORMAL NORMALE	11.5	0.7	6.1	369.6	82.1	0.5				TOTAL	25.9	5.2	30.9	19.6	S				151.5

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS									DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES					DAYS WITH SNOWFALL JOURS AVEC CHÛTE 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	TOTAL FOR MONTH TOTAL DU MOIS	0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	50.0 OR MORE OU PLUS	0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	50.0 OR MORE OU PLUS
	378.5	442.6	369.6		77.7	61.9	82.1		11	6	3	0	0	2	0	0	0	0

UDC 551.506.1 ( ) Note/avis 1. Climatological Day/Journee climatologique 00 01 C S.T. - 00 00 C S.T.  
 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 \$2.75 \$27.30 \$2.75 \$27.30 (Janv. à déc.)  
 8. Price: single issue \$2.75 ; annual (Jan. to Dec.) \$27.30 /Prix: numéro individuel \$2.75 ; annuel (janv. à déc.) \$27.30



Date	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	176	137	120	98	89	78	67	55	45	45	43	46	42	44	38	26	21	18	16	12	9	9	8	6
2	3	1	0	-10	-10	-15	-16	-20	-16	-2	1	11	17	19	22	18	20	15	10	6	-11	-4	-5	-5
3	-6	-5	-6	-20	-24	-28	-33	-33	-29	-15	10	23	56	64	87	97	101	101	84	62	55	52	44	33
4	25	23	14	-4	-9	-19	-25	-29	5	44	87	119	131	132	129	128	133	131	118	113	95	56	52	52
5	53	52	53	53	54	53	50	46	50	59	59	66	69	82	86	86	87	78	73	60	57	50	53	44
6	46	41	36	36	31	31	33	33	33	39	43	48	45	48	54	55	66	57	36	12	-1	-13	-24	-36
7	-42	-43	-42	-38	-44	-48	-48	-65	-24	10	35	53	72	85	87	92	84	77	53	23	16	6	11	-4
8	1	-10	-6	-33	-22	-19	-28	-26	-23	10	45	63	81	91	96	98	101	101	85	70	65	69	66	64
9	80	73	63	74	80	75	74	71	77	85	102	110	115	98	102	94	104	99	84	67	56	45	56	30
10	27	18	34	32	30	34	41	38	56	76	98	144	157	193	185	185	185	190	174	161	156	146	138	128
11	123	120	132	139	133	162	134	105	108	111	120	117	132	140	145	142	139	131	113	112	107	99	89	84
12	82	64	62	50	44	44	50	52	63	86	120	140	160	172	177	177	168	148	109	80	74	37	39	25
13	16	17	1	10	28	22	34	38	72	81	100	119	125	110	135	133	135	125	95	68	72	23	25	16
14	-1	-17	-14	2	-7	-18	-21	-39	-24	28	56	83	107	116	118	117	116	108	97	78	68	60	67	69
15	74	68	67	65	59	53	50	48	45	43	40	42	42	45	51	63	59	58	25	-4	-7	-4	-4	-16
16	-12	-3	7	7	7	3	5	5	8	21	30	40	48	60	60	37	39	24	7	10	6	-3	-10	-7
17	-2	-3	0	0	1	-2	-2	-7	-16	5	24	23	23	26	31	33	34	22	-2	-12	-27	-11	-22	-20
18	-29	-38	-45	-51	-58	-56	-59	-65	-44	-20	16	32	50	59	74	74	74	65	27	25	19	23	10	4
19	0	-2	-19	-25	-31	-36	-38	-37	-24	3	38	65	89	117	138	134	135	132	111	99	98	87	77	69
20	48	38	19	8	-14	-38	-48	-40	-7	34	80	109	125	136	143	146	145	120	66	51	52	41	42	56
21	25	31	20	4	-2	-6	22	18	36	48	88	111	136	152	168	166	161	157	143	136	122	118	116	108
22	102	89	84	77	74	69	67	59	58	77	118	158	179	187	198	193	180	155	137	141	126	113	95	68
23	101	77	56	68	61	57	65	69	75	100	127	149	170	178	184	192	181	131	117	93	62	53	33	48
24	48	44	41	35	39	41	39	43	63	96	135	179	201	207	216	227	226	211	193	190	188	176	170	142
25	138	122	104	91	57	60	45	48	45	109	138	172	188	216	221	229	215	188	146	119	134	129	93	90
26	94	80	146	153	76	71	66	73	87	127	176	203	205	204	189	177	179	179	178	179	180	180	180	192
27	200	201	202	197	192	176	145	113	103	98	78	96	105	95	95	85	74	68	66	62	60	54	42	32
28	27	22	16	14	6	-1	-5	-12	-3	13	33	48	54	66	72	77	66	46	23	2	-18	-29	-29	-29
29	-13	-14	9	15	17	17	19	12	-2	1	21	28	25	37	41	35	28	10	1	-10	-11	-17	-53	-27
30	-29	-26	-19	-17	-19	-22	-56	-77	-65	-25	-3	11	16	17	23	23	26	-2	-16	-32	-54	-52	-53	-54
31	-50	-48	-89	-87	-58	-54	-35	-32	-32	-17	-10	-7	-8	-2	0	0	-5	-14	-21	-24	-31	-31	-33	-35

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 3. Unit/Unite = 0.1°C

WINNIPEG INTERNATIONAL AIRPORT  
AEROPORT INTERN. DE WINNIPEG

HOURLY DEW POINT TEMPERATURE AT:  
TEMPERATURE DE ROSEE HORAIRE A:

Date	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	76	84	87	84	73	63	54	47	42	31	23	19	10	3	3	13	7	-5	-14	-6	-8	-18	-21	-27
2	-28	-37	-45	-30	-35	-41	-43	-47	-45	-41	-51	-61	-66	-67	-81	-66	-73	-71	-59	-71	-73	-73	-70	-70
3	-62	-60	-60	-69	-75	-79	-79	-79	-79	-73	-61	-52	-43	-45	-46	-60	-73	-70	-70	-71	-66	-69	-73	-78
4	-79	-74	-75	-77	-77	-79	-79	-77	-69	-58	-40	-33	-43	-44	-49	-51	-35	-22	-20	-44	-21	44	49	49
5	47	46	47	46	44	43	38	39	39	47	53	64	64	70	66	52	33	13	47	15	11	-1	-11	-13
6	-18	-18	-13	-24	-11	-11	-20	-30	-22	-26	-29	-29	-29	-27	-33	-29	-25	-27	-33	-35	-38	-43	-50	-58
7	-59	-58	-57	-54	-59	-62	-60	-81	-55	-48	-45	-44	-40	-51	-59	-64	-58	-52	-39	-39	-40	-43	-36	-43
8	-43	-46	-41	-57	-48	-45	-50	-48	-43	-25	-19	-29	-19	-33	-46	-38	-45	-44	-45	-52	-58	-61	-64	-63
9	-58	-53	-5	-1	14	56	66	56	57	61	63	48	38	55	43	61	66	68	63	52	44	36	44	28
10	22	9	13	11	9	12	13	17	23	30	32	32	28	22	33	23	23	17	19	26	21	19	20	23
11	25	27	29	27	28	38	38	58	63	58	41	32	26	13	-11	-19	-24	-23	-31	-27	-29	-31	-29	-27
12	-29	-33	-34	-35	-30	-24	-19	-21	-13	-6	0	7	-8	-28	-26	-36	-22	-18	-27	-30	-27	-28	-26	-28
13	-32	-34	-30	-21	-1	-2	3	1	7	4	11	10	2	52	35	19	18	15	14	11	13	-10	-14	-16
14	-21	-30	-26	-10	-14	-26	-29	-40	-24	16	19	20	19	19	18	19	20	29	36	49	54	55	59	62
15	61	60	63	64	58	53	49	48	45	39	33	30	31	24	20	19	13	15	2	-21	-21	-21	-21	-30
16	-25	-21	-21	-24	-24	-24	-24	-24	-24	-19	-25	-30	-23	-27	-25	12	17	18	7	10	6	-3	-10	-7
17	-2	-3	0	-2	-6	-9	-9	-18	-25	-14	-16	-30	-27	-37	-38	-35	-39	-34	-38	-48	-56	-43	-46	-45
18	-48	-51	-54	-63	-74	-69	-75	-83	-66	-50	-34	-35	-43	-47	-53	-61	-66	-66	-66	-66	-69	-78	-80	-83
19	-83	-84	-82	-83	-87	-87	-86	-86	-84	-70	-66	-64	-46	-78	-81	-81	-78	-78	-79	-77	-80	-76	-77	-75
20	-71	-73	-70	-72	-71	-71	-76	-78	-50	-37	-23	-28	-29	-21	-6	-3	-2	0	3	-3	-1	-4	-8	-13
21	-30	-28	-33	-38	-42	-31	-28	-27	-21	-18	-14	-14	-18	-17	-16	-17	-18	-19	-18	-23	-28	-32	-34	-33
22	-34	-35	-37	-36	-35	-36	-36	-37	-36	-27	-8	7	16	20	26	23	19	22	16	0	-4	-4	-4	-7
23	-1	-13	-14	-11	-26	-8	1	8	9	23	39	49	54	52	52	40	35	27	15	3	1	-4	-11	3
24	3	10	12	11	16	23	23	24	38	34	34	28	39	36	32	30	28	30	30	34	38	43	44	41
25	39	34	29	24	16	14	9	9	19	34	45	54	54	59	61	61	61	56	53	47	54	59	49	44
26	47	52	99	103	50	55	55	60	72	100	139	148	163	153	164	166	170	164	161	154	150	146	143	139
27	135	122	118	118	116	122	89	44	47	46	69	74	77	64	59	52	37	26	19	11	8	4	4	6
28	6	0	2	-4	-12	-16	-17	-19	-14	-9	2	-3	-5	2	5	8	12	7	-2	-9	-27	-21	-39	-39
29	-24	-22	-10	-6	-6	-5	-7	-14	-23	-18	-10	-11	-5	6	0	-1	-1	-38	-41	-50	-55	-63	-78	-53
30	-47	-41	-39	-46	-50	-58	-74	-87	-76	-51	-64	-70	-70	-69	-64	-65	-66	-67	-73	-78	-84	-79	-78	-78
31	-72	-76	-105	-105	-73	-66	-54	-55	-49	-51	-61	-59	-72	-70	-72	-74	-62	-63	-56	-52	-43	-39	-39	-40

Note/Avis: 1. Climatological Day/Journée climatologique 0001 C.S.T. - 0000 C.S.T.  
 2. Hours are C.S.T./Les heures sont a l'heure normale de la localité  
 3. Unit/Unite = 0.1°C

CLIMATOLOGICAL SUMMARY FOR OCTOBER 1989AT WINNIPEG, MANITOBA

October was a dry for the second month in a row. The total measured was 16.6 mm (normal 30.9 mm). Temperatures averaged slightly below normal, with a mean of 5.8 degrees compared to the normal 6.1. The mean maximum was 12.8 (normal 11.5) and the mean minimum was -1.2 (normal 0.7). The highest reading was 23.0 on the 24th (a daily record) and the lowest, -9.3 on the 31st, only one week later.

Sunshine was about normal, 155.9 hours compared to 151.1 while the winds were lighter than usual, averaging 14.5 km/h compared to the normal 19.6.

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DAILY WEATHER SUMMARY FOR OCTOBER 1989AT WINNIPEG, MANITOBA

1. Overcast with occasional light rainshowers through the day. Temperatures below normal. Winds moderate gusting strong occasionally gusting to gale force in the evening.
2. Cloudy with very light snow showers in the morning. Temperatures well below normal. Winds moderate and gusty, reducing to light in the evening.
3. Few clouds in the morning otherwise sunny. Temperatures below normal. Winds light.
4. Sunny becoming overcast with rain and rainshowers in the evening. Temperatures below normal. Winds light with a few periods of moderate in the evening.
5. Cloudy to overcast with light rain. Temperatures slightly below normal. Winds light becoming moderate occasionally gusting strong by noon.
6. Cloudy clearing in the early evening. Temperatures below normal. Winds moderate reducing to light in the late afternoon.
7. Sunny. Temperatures below normal. Winds light.
8. Sunny with some cloudy periods. Temperatures below normal. Winds light becoming moderate in the late afternoon.
9. Mixed sun and cloud with rainshowers, becoming clear in the evening. Temperatures near normal. Winds light becoming moderate occasionally gusting strong near noon, reducing to light in the evening.
10. Sunny with a few clouds. Temperatures above normal. Winds light becoming moderate near noon.
11. Cloudy, becoming sunny in the afternoon. Temperatures above normal. Winds moderate gusting strong, reducing to light in the evening.
12. Sunny. Temperatures above normal. Winds light, becoming moderate occasionally gusting strong by mid-morning, reducing to light in the evening.
13. Cloudy with rainshowers, clearing late in the afternoon. Temperatures near normal. Winds light, becoming moderate near noon, reducing to light in the late afternoon.
14. Sunny becoming overcast with rainshowers in the evening. Temperatures near normal. Winds light.
15. Overcast with light rain, clearing the late afternoon. Temperatures below normal. Winds light becoming moderate gusting strong, reducing to light late in afternoon.
16. Cloudy to overcast with mixed rain and snow showers in the evening. Temperatures below normal. Winds light.
17. Sunny with some clouds in the afternoon. Temperatures below normal. Winds light.
18. Sunny. Temperatures below normal. Winds light.
19. Sunny. Temperatures near normal. Winds light becoming moderate occasionally gusting strong by mid-morning, reducing to light in the evening.
20. Sunny. Temperatures slightly above normal. Winds light.
21. Sunny. Temperatures above normal. Winds light becoming moderate occasionally gusting strong by mid-morning.
22. Sunny. Temperatures well above normal. Winds light.
23. Sunny. Temperatures well above normal. Winds light.
24. Sunny with some afternoon cloud. Temperatures well above normal. Winds light becoming moderate by noon.
25. Sunny. Temperatures well above normal. Winds light.
26. Sunny becoming overcast by noon, with afternoon thunderstorms. Temperatures well above normal. Winds light.
27. Becoming overcast in the morning with drizzle in the afternoon. Temperatures slightly above normal. Winds moderate gusting to strong reducing to light late in the evening.
28. Sunny. Temperatures near normal. Winds light.
29. Overcast with a few sunny breaks clearing slightly in the evening. Temperatures slightly below normal. Winds light with a short period of moderate in the afternoon.
30. Sunny. Temperatures slightly below normal. Winds light.
31. Cloudy with light snow. Temperatures below normal. Winds light becoming moderate in the afternoon to light in the evening.