

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

NOVEMBER / NOVEMBRE

19 91

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

LAT. 49° 54' N		LONG. 97° 14' W		ELEVATION ALTITUDE 239.6		METRES (ASL) MÈTRES (NMM)		STANDARD TIME USED HEURE NORMALE UTILISÉE: CENTRAL									
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL HUMIDITY HUMIDITÉ REL.		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 RÉFÉRIERATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	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	cm	km/h	km/h		
1	-5.7	-9.8	-7.8	25.8			94	81			0.8	0.8	4	48.8	N	N 981	0.0
2	-9.8	-14.4	-12.1	30.1			94	87			8.6	8.6	6	56.0	NNW	NNW69	0.0
3	-12.5	-17.6	-15.1	33.1			87	73			TR.	TR.	8	27.4	NW	NNW41	5.3
4	-10.4	-17.7	-14.1	32.1			83	73					8	13.2	SSE	SE 24*	6.0
5	-8.7	-17.4	-13.1	31.1			92	71			2.2	1.8	8	37.5	NW	NW 59	5.7
6	-12.6	-18.8	-15.7	33.7			84	50					9	31.6	W	NW 41*	8.4
7	-7.8	-16.9	-12.4	30.4			86	55					9	22.0	WSW	S 33*	7.3
8	0.8	-13.5	-6.4	24.4			95	78					9	23.0	S	S 44	0.9
9	-1.5	-15.6	-8.6	26.6			95	76		0.4	0.6	1.0	8	27.3	N	N 41	2.2
10	-6.3	-19.8	-13.1	31.1			93	73					8	17.3	SSE	SSE39	4.4
11	0.6	-6.4	-2.9	20.9			99	88		TR.	0.4	0.4	8	29.1	S	S 46*	0.3
12	4.7	-3.4	0.7	17.3			99	74					6	36.3	S	S 56	5.4
13	5.5	0.6	3.1	14.9			90	69					3	22.2	WSW	WSW31	7.7
14	2.4	-4.4	-1.0	19.0			99	83					T	14.9	W	SW 28	1.1
15	0.5	-4.8	-2.2	20.2			95	73					T	12.8	W	WNW19*	0.0
16	-0.7	-5.3	-3.0	21.0			99	87					T	39.8	S	S 59	0.2
17	1.9	-2.7	-0.4	18.4			99	83		5.0		5.0	T	43.2	S	S 56	0.0
18	2.4	-0.3	1.1	16.9			100	87		0.8		0.8	T	19.3	S	S 33	0.0
19	0.9	-7.8	-3.5	21.5			86	69					T	23.0	W	WNW41	4.0
20	0.0	-9.7	-4.9	22.9			92	69		TR.		TR.	T	10.6	E	NNE26	2.2
21	-2.3	-14.0	-8.2	26.2			93	80			5.4	4.6	T	29.5	N	N 41	0.0
22	-10.7	-17.2	-14.0	32.0			90	77			0.2	0.2	4	17.7	NW	NW 28	7.4
23	-11.9	-19.6	-15.8	33.8			84	68		TR.		TR.	4	12.0	N	N 24	6.2
24	-15.6	-21.9	-18.8	36.8			76	66					4	12.7	NNW	NNW17	4.9
25	-8.5	-24.0	-16.3	34.3			78	52			TR.	TR.	4	21.5	SSE	SSE41	4.2
26	-4.5	-9.2	-6.9	24.9			97	84		0.6	4.8	5.4	6	26.4	SSE	SSE41	0.0
27	-8.7	-13.4	-11.1	29.1			89	80			TR.	TR.	8	17.0	NW	NNW28*	3.9
28	-7.6	-11.6	-9.6	27.6			90	77			0.2	0.2	8	16.4	S	S 35	5.9
29	-4.2	-12.4	-8.3	26.3			91	80			0.4	0.4	8	29.4	S	NW 41	3.4
30	-9.2	-19.4	-14.3	32.3			89	51			0.2	0.2	8	25.9	NW	S 48	6.0
MEAN MOYENNE	-4.7	-12.3	-8.5	794.7	TOTAL	TOTAL	91	74	TOT 0	TOTAL 6.8	TOTAL 23.8	TOTAL 29.4		25.3	PREVAILING DIRECTION DOMINANTE S	MAXIMALE N 981	TOTAL 103.0
NORMAL NORMALE	-0.3	-8.8	-4.5	676.0	3.8					5.5	21.9	25.2		19.4	S		90.7

DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS

DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS TOTALES

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	mm					cm						
								02 OR MORE - OU PLUS	10 OR MORE - OU PLUS	20 OR MORE - OU PLUS	100 OR MORE - OU PLUS	500 OR MORE - OU PLUS	02 OR MORE - OU PLUS	10 OR MORE - OU PLUS	20 OR MORE - OU PLUS	100 OR MORE - OU PLUS	500 OR MORE - OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	794.7	668.6	676.0	TOTAL FOR MONTH TOTAL DU MOIS	0.0	2.0	3.8												
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1er JUILLET	1505.9	1239.3	1288.1	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1er AVRIL	2024.4	1860.7	1783.3	13	6	4	0	0	11	4	4	0	0		

UDC 551.506.1 ()

Note/Aviz

- Climatological Day/Journée climatologique 00 01 C S.T. - 00 00 C S.T.
- Normal/Normale 1951-1980
- TR = Trace
- M = Missing/Manquant
- No entry/Pas de valeur = No occurrence/Pas d'événement
- * 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).
- C = Calm/Calmes \$3.00 annual (Jan to Dec.) \$29.50 /Prix: numéro individuel \$3.00 annual \$29.50 (janv à déc.)
- Price: single issue

DRY-BULB TEMPERATURES AT:
TEMPERATURES DU THERMOMETRE SEC A:

WINNIPEG INTERNATIONAL AIRPORT
AEROPORT INTER. DE WINNIPEG

MONTH: NOVEMBER 1991
MOIS: NOVEMBRE 1991

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	-96	-80	-79	-80	-69	-72	-63	-61	-64	-69	-74	-73	-72	-68	-66	-71	-78	-82	-84	-87	-86	-90	-94	-96
2	-98	-109	-123	-123	-123	-124	-124	-120	-117	-113	-112	-106	-104	-104	-104	-99	-103	-110	-116	-120	-123	-130	-134	-141
3	-144	-148	-152	-153	-151	-146	-143	-145	-145	-142	-134	-130	-126	-128	-127	-127	-128	-134	-144	-152	-157	-163	-168	-171
4	-166	-170	-174	-172	-172	-174	-174	-171	-165	-161	-145	-134	-123	-112	-105	-106	-107	-111	-116	-119	-117	-114	-115	-113
5	-111	-108	-105	-104	-102	-101	-95	-93	-88	-88	-90	-94	-99	-97	-99	-99	-111	-128	-138	-148	-165	-172	-174	-171
6	-170	-170	-169	-167	-176	-182	-183	-181	-177	-181	-176	-165	-154	-142	-132	-129	-127	-132	-135	-139	-138	-137	-139	-145
7	-149	-151	-156	-161	-162	-165	-163	-161	-164	-168	-146	-129	-114	-97	-93	-87	-88	-84	-80	-82	-88	-96	-102	-109
8	-115	-120	-124	-129	-128	-132	-129	-119	-95	-81	-70	-54	-38	-19	-7	0	8	-11	-111	-120	-133	-136	-144	-147
9	-23	-33	-48	-17	-20	-25	-34	-44	-58	-62	-65	-72	-72	-77	-79	-83	-87	-101	-108	-108	-102	-93	-88	-67
10	-156	-174	-184	-174	-181	-193	-189	-192	-189	-148	-131	-122	-118	-115	-113	-108	-104	-108	-108	-102	-93	-88	-76	-67
11	-63	-58	-56	-55	-50	-47	-44	-43	-39	-37	-32	-25	-15	-1	1	4	4	8	-16	-21	-31	-36	-42	-31
12	-29	-32	-30	-25	-24	-23	-18	-2	-2	-12	-7	5	15	24	37	35	44	32	32	29	32	40	40	39
13	38	38	36	37	34	35	26	24	10	12	25	35	38	45	55	49	34	26	25	18	19	22	14	9
14	20	19	17	16	6	-6	-14	-17	-20	-15	-5	1	6	6	10	8	5	-3	-16	-18	-24	-30	-34	-40
15	-43	-45	-45	-29	-17	-5	-2	-3	-3	-3	-2	1	4	4	3	4	5	3	1	-10	-19	-24	-32	-39
16	-46	-48	-47	-50	-50	-46	-47	-43	-33	-29	-26	-24	-19	-14	-10	-11	-11	-13	-17	-14	-14	-17	-11	-7
17	-9	-13	-14	-17	-18	-21	-24	-27	-24	-16	-7	2	8	9	12	11	13	15	17	17	17	17	18	17
18	19	14	13	12	12	12	12	11	11	11	10	14	18	21	23	24	22	15	10	20	20	19	12	2
19	3	8	-3	-8	-10	-16	-15	-11	-18	-19	-19	-16	-11	-14	-9	-6	-14	-30	-50	-55	-64	-69	-75	-73
20	-77	-79	-78	-85	-89	-87	-87	-87	-83	-61	-50	-37	-32	-18	-17	-14	-14	-11	-8	-3	-3	0	-7	-21
21	-24	-26	-27	-31	-39	-45	-48	-53	-59	-60	-66	-67	-69	-69	-67	-72	-83	-84	-85	-94	-104	-120	-131	-137
22	-139	-145	-144	-124	-119	-127	-135	-154	-161	-155	-143	-134	-123	-117	-111	-109	-119	-138	-153	-134	-138	-128	-150	-159
23	-163	-166	-166	-169	-174	-176	-178	-187	-185	-166	-146	-132	-129	-122	-123	-127	-140	-161	-164	-173	-176	-178	-181	-188
24	-194	-200	-204	-197	-204	-212	-211	-207	-208	-195	-187	-181	-176	-165	-159	-159	-163	-181	-184	-189	-203	-196	-210	-207
25	-209	-218	-207	-216	-225	-230	-234	-233	-231	-214	-197	-179	-162	-139	-130	-122	-121	-119	-116	-115	-109	-104	-100	-89
26	-85	-91	-86	-85	-80	-79	-73	-68	-63	-61	-58	-56	-54	-51	-49	-47	-47	-48	-50	-60	-69	-74	-79	-84
27	-88	-92	-94	-99	-105	-111	-116	-113	-125	-134	-118	-112	-101	-90	-94	-97	-106	-116	-113	-120	-111	-106	-106	-107
28	-107	-106	-105	-102	-102	-101	-101	-102	-109	-106	-105	-108	-102	-94	-94	-88	-92	-95	-96	-106	-108	-83	-76	-79
29	-81	-73	-73	-78	-76	-69	-69	-78	-73	-68	-58	-52	-46	-42	-50	-60	-61	-61	-61	-68	-87	-91	-98	-108
30	-124	-143	-152	-164	-179	-179	-178	-186	-188	-183	-181	-178	-177	-170	-175	-178	-185	-187	-180	-178	-173	-144	-132	-119

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

HOURLY DRY POINT TEMPERATURE AT:
 WASHINGTON INTERNATIONAL AIRPORT
 TEMPERATURES DE ROSEE HORAIRES A:
 AEROPORT INTERNATIONAL DE WASHINGTON

MONTH: NOVEMBER 1991
 MOIS: NOVEMBRE 1991

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	-110	-93	-91	-91	-81	-83	-74	-79	-79	-85	-92	-91	-88	-81	-80	-86	-92	-98	-101	-108	-103	-112	-117	-119
2	-120	-125	-140	-139	-137	-140	-144	-135	-131	-127	-126	-119	-115	-116	-116	-110	-114	-123	-128	-134	-138	-144	-149	-157
3	-160	-167	-180	-181	-181	-174	-170	-172	-169	-158	-152	-148	-149	-149	-147	-149	-149	-158	-169	-179	-186	-196	-198	-205
4	-197	-203	-205	-204	-205	-206	-207	-204	-197	-192	-173	-158	-150	-146	-140	-144	-145	-146	-147	-152	-151	-146	-144	-142
5	-138	-135	-133	-124	-121	-115	-108	-107	-102	-105	-110	-118	-129	-128	-138	-142	-151	-165	-169	-185	-195	-205	-205	-202
6	-200	-202	-200	-198	-195	-202	-206	-205	-204	-212	-208	-204	-201	-212	-203	-201	-195	-195	-197	-201	-203	-197	-199	-204
7	-208	-211	-211	-213	-215	-220	-218	-223	-226	-225	-212	-199	-181	-149	-142	-138	-124	-121	-120	-119	-121	-125	-128	-132
8	-135	-135	-137	-142	-138	-145	-140	-131	-107	-96	-89	-77	-65	-51	-37	-32	-28	-21	-17	-20	-22	-24	-28	-30
9	-36	-42	-55	-34	-33	-44	-54	-63	-83	-83	-87	-96	-99	-104	-109	-115	-117	-131	-140	-155	-162	-165	-167	-169
10	-175	-188	-219	-204	-211	-227	-220	-229	-218	-174	-161	-156	-152	-150	-148	-130	-126	-128	-128	-119	-108	-102	-85	-78
11	-75	-70	-68	-66	-63	-59	-57	-51	-49	-46	-41	-34	-26	-15	-12	-12	-10	-17	-23	-29	-37	-42	-45	-34
12	-32	-36	-33	-28	-28	-27	-26	-19	-21	-28	-24	-17	-11	-5	0	3	8	6	6	6	5	7	9	4
13	-4	-3	-1	-2	-6	-10	-11	-14	-17	-16	-11	-9	-5	-5	1	-1	1	1	4	4	1	2	2	-3
14	-3	-7	-9	-7	-11	-18	-25	-29	-29	-19	-14	-15	-13	-13	-14	-15	-14	-20	-26	-27	-30	-36	-36	-46
15	-51	-57	-59	-36	-24	-14	-13	-15	-20	-24	-25	-29	-30	-38	-28	-37	-38	-34	-32	-43	-48	-53	-55	-59
16	-62	-61	-59	-62	-60	-56	-57	-47	-37	-33	-32	-35	-32	-29	-26	-27	-26	-28	-29	-29	-28	-29	-26	-24
17	-24	-25	-27	-29	-30	-33	-38	-41	-38	-33	-24	-16	-13	-9	-2	2	7	12	14	14	14	14	15	14
18	16	14	12	11	11	12	12	11	11	11	10	14	17	17	17	19	14	9	4	4	1	1	5	-10
19	-17	-17	-30	-38	-39	-37	-37	-39	-44	-56	-62	-61	-65	-58	-52	-64	-74	-74	-89	-90	-101	-102	-104	-98
20	-99	-99	-100	-102	-103	-105	-108	-103	-98	-89	-90	-80	-74	-66	-63	-61	-56	-55	-49	-40	-35	-29	-31	-44
21	-49	-52	-55	-54	-62	-69	-66	-64	-74	-76	-79	-83	-88	-90	-86	-94	-103	-102	-108	-121	-132	-145	-153	-159
22	-159	-162	-161	-143	-138	-147	-153	-171	-176	-172	-162	-155	-149	-146	-143	-138	-148	-160	-170	-170	-155	-147	-167	-183
23	-189	-488	-192	-199	-203	-199	-200	-220	-216	-193	-171	-153	-156	-157	-163	-169	-183	-206	-208	-214	-216	-217	-219	-224
24	-231	-237	-241	-234	-242	-249	-248	-243	-229	-220	-214	-212	-206	-206	-206	-206	-208	-223	-221	-224	-242	-229	-250	-240
25	-244	-252	-241	-250	-265	-266	-271	-274	-268	-249	-228	-211	-201	-219	-203	-193	-179	-171	-173	-174	-167	-161	-156	-154
26	-152	-114	-108	-98	-94	-91	-85	-81	-76	-71	-70	-66	-61	-56	-56	-54	-52	-54	-56	-67	-78	-85	-95	-102
27	-106	-110	-110	-114	-121	-126	-131	-131	-141	-150	-137	-132	-124	-112	-124	-124	-128	-136	-134	-138	-128	-125	-125	-125
28	-125	-123	-122	-119	-122	-118	-117	-118	-121	-120	-132	-131	-128	-124	-115	-112	-112	-113	-111	-111	-125	-109	-105	-105
29	-103	-91	-88	-92	-90	-85	-83	-90	-86	-81	-72	-71	-70	-72	-76	-83	-74	-82	-82	-91	-110	-109	-122	-131
30	-149	-167	-176	-188	-201	-206	-206	-210	-212	-206	-205	-208	-203	-196	-245	-238	-248	-241	-236	-231	-216	-185	-166	-137

Note/Avies:

1. Climatological Day/Journee climatologique 0001 C.S.T. - 0000 C.S.T.
2. Hours are C.S.T./Les heures sont a l'heure normale de la localite
3. Unit/Unite - 0.1°C

1. Overcast with snow beginning early morning, blowing snow beginning early afternoon. Maximum temperature well below normal, minimum below normal. Winds moderate increasing to strong gusting gale early afternoon.
2. Overcast, snow and blowing snow reducing visibilities less than 1 km. Temperatures well below normal. Winds gale gusting to storm at times.
3. Mainly sunny with morning cloudy periods. Temperatures well below normal. Winds moderate decreasing to light by evening.
4. Variable cloudiness becoming overcast mid-evening. Temperatures well below normal. Winds light becoming moderate early afternoon, decreasing to light early evening.
5. Overcast with snow, becoming mainly sunny late morning. Blowing snow beginning late morning. Temperatures well below normal. Winds light becoming strong gusting gale late morning.
6. Mainly sunny becoming mainly cloudy early afternoon. Temperatures well below normal. Winds moderate decreasing to light overnight.
7. Variable cloudiness. Temperatures well below normal. Winds light becoming moderate late morning, decreasing to light late evening.
8. Variable cloudiness. Maximum temperature near normal, minimum well below normal. Winds light becoming moderate gusting strong midmorning, decreasing to light early evening.
9. Overcast with freezing rain and snow ending by morning. Clearing by mid-afternoon. Maximum temperature slightly below normal, minimum well below normal. Winds light becoming moderate gusting strong early morning.
10. Clear overnight becoming overcast early afternoon. Temperatures well below normal. Winds light becoming moderate mid-afternoon gusting strong late evening.
11. Overcast with snow and freezing drizzle ending by late morning. Morning and evening fog periods. Temperatures near normal. Winds moderate gusting strong becoming light early afternoon.
12. Overcast with fog ending early morning. Mid-afternoon sunny periods. Temperatures slightly above normal. Winds moderate becoming strong gusting gale early morning decreasing to moderate early afternoon.
13. Mainly sunny. Maximum temperature above normal, minimum well above normal. Winds moderate becoming light early afternoon increasing to moderate early evening.
14. Cloudy becoming clear by early evening. Maximum temperature near normal with minimum temperature above normal. Winds moderate in the morning becoming light by early afternoon.
15. Overcast all day. Maximum temperature near normal with minimum temperature above normal. Winds light.
16. Overcast with fog in the morning becoming cloudy in the afternoon. Temperatures near normal. Winds strong gusting to gale.
17. Overcast with drizzle and rain starting in the early afternoon. Maximum temperature near normal, minimum temperatures well above normal. Winds strong gusting to gale force all day.
18. Overcast with drizzle ending late morning. Maximum temperature slightly above normal, minimum temperature well above normal. Winds light.
19. Variable cloud becoming cloudy early afternoon. Clearing in early evening. Temperatures slightly above normal. Winds moderate gusting strong.
20. Clear overnight becoming overcast by noon. A trace of freezing rain occurred in the early evening. Temperatures increasing all day to a maximum temperature early evening. Temperatures near normal for day. Winds light to moderate.
21. Overcast with snow and snowshowers throughout the day, with an occurrence of snow pellets in the early morning. Temperatures were near normal. Winds were moderate gusting to strong.
22. Variable cloud with snow, ice crystals. Temperatures well below normals. Winds moderate till noon then decreasing to light.
23. Sunny with ice crystals in the early morning. Temperatures well below normals. Winds light.
24. Grey Cup Day. Sunny. Temperatures well below normal. Wind were light. Stadium temperature at kick off was -17.5 with winds 310 degrees at 05 knots. Windchill was 1400 or -19 degrees celsius.
25. Sunny becoming overcast early evening. Maximum temperature below normal, minimum well below normal. Winds light becoming moderate early afternoon.
26. Overcast and snow with freezing drizzle beginning early afternoon. Maximum temperature near normal, minimum above normal. Winds moderate with gusting strong at times.
27. Mainly cloudy with snow ending early morning. Snow beginning again by early evening. Maximum temperature slightly below normal, minimum near normal. Winds moderate becoming light mid-evening.
28. Snow overnight, ending midmorning, sunny for remainder of day. Temperatures near normal. Winds light, increasing to moderate early afternoon.
29. Cloudy to overcast with light snow beginning mid-afternoon. Temperatures near normal. Winds moderate, occasionally gusty in the evening.
30. Variable cloudiness with ice crystals, becoming overcast with snow and blowing snow mid-evening. Maximum temperature slightly below normal, minimum below normal. Winds decreasing to light overnight, increasing to moderate and gusty, mid-evening.