

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada

Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: February/fevrier 1999

DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRES-JOURS			REL HUMIDITY HUMIDITE REL		PRECIPITATION PRECIPITATIONS			Snow On Ground neige au sol cm
	MAX	MIN	MEAN	Heating	Growing	Cooling	MAX	MIN	Rainfall	Snowfall	Total	
	C	C	C	de chauffe base 18	de crois- sance base 5	de refri- geration base 18	%	%	de pluie hauteur mm	de neige hauteur cm	precip. totales mm	
1	1.2	-5.7	-2.3	20.3	0.0	0.0	93	63	TR	0.0	TR	
2	-2.9	-9.0	-6.0	24.0	0.0	0.0	83	59	0.0	0.0	0.0	
3	-5.5	-21.6	-13.6	31.6	0.0	0.0	89	50	0.0	TR	TR	
4	-15.0	-24.6	-19.8	37.8	0.0	0.0	63	51	0.0	0.0	0.0	
5	-9.6	-17.0	-13.3	31.3	0.0	0.0	87	55	0.0	0.2	0.2	
6	-11.4	-23.2	-17.3	35.3	0.0	0.0	93	73	0.0	TR	TR	
7	-1.1	-13.5	-7.3	25.3	0.0	0.0	88	77	0.0	0.0	0.0	
8	3.0	-6.8	-1.9	19.9	0.0	0.0	95	73	1.5	0.0	1.5	
9	-5.1	-16.4	-10.8	28.8	0.0	0.0	90	68	0.0	TR	TR	
10	4.8	-11.6	-3.4	21.4	0.0	0.0	91	70	0.0	0.6	0.6	
11	-7.8	-13.7	-10.8	28.8	0.0	0.0	83	64	0.0	TR	TR	
12	-10.3	-18.1	-14.2	32.2	0.0	0.0	87	60	0.0	TR	TR	
13	-4.3	-18.4	-11.4	29.4	0.0	0.0	88	63	0.0	0.0	0.0	
14	-0.2	-9.6	-4.9	22.9	0.0	0.0	92	71	0.0	0.0	0.0	
15	-6.1	-10.6	-8.4	26.4	0.0	0.0	84	57	0.0	0.0	0.0	
16	-7.9	-15.6	-11.8	29.8	0.0	0.0	76	49	0.0	0.0	0.0	
17	-10.3	-19.2	-14.8	32.8	0.0	0.0	70	43	0.0	0.0	0.0	
18	-7.0	-23.0	-15.0	33.0	0.0	0.0	72	38	0.0	0.0	0.0	
19	-4.1	-15.7	-9.9	27.9	0.0	0.0	62	44	0.0	0.0	0.0	
20	-2.4	-12.6	-7.5	25.5	0.0	0.0	85	57	0.0	0.0	0.0	
21	-2.5	-12.5	-7.5	25.5	0.0	0.0	91	78	0.0	TR	TR	
22	0.0	-8.0	-4.0	22.0	0.0	0.0	91	49	0.0	0.6	0.6	
23	-3.0	-4.0	-3.5	21.5	0.0	0.0	97	83	0.0	7.4	7.4	
24	-0.1	-3.8	-2.0	20.0	0.0	0.0	97	86	0.0	1.5	1.5	
25	2.9	-9.2	-3.2	21.2	0.0	0.0	91	64	0.0	0.0	0.0	
26	5.7	1.1	3.4	14.6	0.0	0.0	87	71	0.0	0.0	0.0	
27	2.9	-1.6	0.7	17.3	0.0	0.0	95	80	1.5	1.0	2.5	
28	-1.6	-4.3	-3.0	21.0	0.0	0.0	88	77	0.0	0.0	0.0	
TOTAL				727.5	0.0	0.0			3.0	11.3	14.3	totale
MEAN	-3.5	-12.4	-8.0				86	63				moyenne
NORMAL	-9.7	-20.6	-15.1	936.2	0.0	0.0			0.4	17.1	14.8	normale

- NOTE/AVIS:
1. Climatological Day / Journee Climatologique: 00 01 CST - 00 00 CST
 2. 30 Yr Normals / Normales duree 30 ans.
 3. TR = Trace.
 4. No entry = Missing / Pas de valeur = Manquant.

WINNIPEG INTL A (YWG) MONTH/MOIS: February/fevrier 1999

DRY BULB TEMPERATURES / TEMPERATURES DU THERMOMETRE SEC

HOUR / HEURE

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	-21	-25	-26	-28	-28	-24	-21	-20	-18	-14	-10	-6	-2	-1	-1	0	4	6	4	-1	-16	-28	-37	-51
2	-56	-67	-57	-71	-68	-69	-78	-71	-85	-70	-52	-49	-42	-35	-33	-31	-32	-46	-61	-67	-65	-56	-61	-59
3	-59	-58	-63	-82	-78	-72	-84	-103	-116	-120	-123	-130	-142	-151	-155	-155	-160	-165	-172	-188	-197	-202	-211	-209
4	-212	-221	-230	-236	-229	-226	-239	-237	-243	-230	-216	-189	-160	-162	-160	-163	-162	-162	-154	-154	-153	-151	-155	-153
5	-150	-137	-130	-136	-133	-139	-146	-157	-162	-148	-136	-135	-132	-115	-110	-100	-97	-100	-118	-123	-125	-126	-126	-123
6	-127	-135	-140	-155	-194	-211	-220	-202	-190	-184	-156	-144	-130	-134	-123	-116	-117	-120	-126	-125	-118	-121	-124	-126
7	-127	-126	-123	-129	-135	-130	-122	-101	-94	-93	-77	-61	-46	-30	-30	-20	-11	-20	-22	-31	-34	-39	-43	-50
8	-54	-48	-34	-20	-15	-16	-2	-16	3	26	23	13	11	6	9	5	-1	3	-4	-19	-32	-46	-60	-64
9	-68	-93	-96	-96	-114	-139	-136	-160	-158	-133	-111	-101	-90	-81	-74	-73	-69	-69	-73	-72	-65	-69	-63	-58
10	-54	-47	-42	-39	-36	-32	-14	-22	-21	-6	23	34	46	45	38	34	26	21	-24	-41	-62	-78	-90	-107
11	-114	-114	-113	-111	-117	-119	-118	-120	-123	-121	-124	-98	-88	-86	-83	-80	-84	-92	-107	-116	-130	-131	-135	-133
12	-132	-131	-127	-128	-127	-132	-140	-142	-148	-147	-140	-133	-123	-119	-116	-108	-103	-108	-137	-153	-156	-171	-172	-162
13	-174	-183	-173	-167	-158	-150	-148	-139	-128	-118	-103	-92	-73	-66	-54	-48	-50	-48	-53	-50	-48	-46	-49	-53
14	-60	-64	-59	-62	-70	-87	-93	-90	-83	-61	-49	-36	-20	-5	-9	-16	-14	-17	-26	-43	-53	-59	-63	-66
15	-65	-62	-62	-62	-64	-66	-71	-76	-86	-95	-91	-93	-80	-79	-72	-68	-71	-77	-85	-89	-86	-90	-95	-102
16	-105	-108	-116	-123	-129	-138	-148	-155	-155	-147	-141	-128	-122	-111	-97	-91	-81	-82	-111	-113	-133	-122	-114	-116
17	-120	-122	-129	-150	-159	-167	-173	-183	-184	-167	-160	-146	-143	-131	-120	-111	-104	-106	-137	-158	-167	-175	-177	-189
18	-184	-198	-192	-210	-220	-217	-220	-229	-202	-164	-146	-131	-113	-93	-86	-78	-76	-76	-98	-134	-160	-167	-176	-149
19	-149	-149	-140	-125	-121	-121	-124	-120	-120	-113	-105	-91	-77	-55	-43	-43	-44	-51	-78	-73	-76	-83	-102	-105
20	-107	-102	-108	-108	-108	-116	-119	-119	-119	-105	-71	-59	-44	-36	-28	-28	-31	-37	-56	-75	-87	-79	-101	-100
21	-99	-120	-114	-120	-109	-102	-93	-93	-89	-87	-77	-62	-47	-40	-36	-28	-30	-33	-40	-42	-41	-43	-45	-44
22	-44	-43	-43	-43	-57	-61	-73	-79	-73	-61	-50	-34	-18	-1	-5	-5	-12	-13	-18	-29	-31	-32	-31	-33
23	-37	-36	-37	-36	-36	-38	-39	-38	-40	-38	-35	-35	-33	-33	-32	-33	-33	-36	-38	-36	-39	-38	-37	-33
24	-33	-32	-23	-2	-6	-12	-15	-20	-23	-28	-23	-20	-14	-15	-13	-12	-14	-15	-19	-24	-27	-27	-28	-32
25	-28	-31	-36	-36	-54	-83	-86	-83	-66	-43	-30	-22	-4	10	14	25	25	25	25	25	24	27	23	24
26	23	17	16	13	16	18	22	24	25	29	26	36	43	53	56	53	49	46	45	41	39	38	35	29
27	29	24	22	21	13	9	10	10	7	7	7	7	3	-1	-1	-2	-2	-1	-5	-6	-6	-8	-11	-16
28	-16	-20	-24	-28	-28	-33	-36	-38	-40	-42	-40	-36	-36	-34	-32	-28	-26	-28	-32	-32	-34	-34	-33	-30

NOTE/AVIS:

1. Unit = 0.1 C

1. Unite = 0.1 C

WINNIPEG INTL A (YWG) MONTH/MOIS: February/fevrier 1999

PRECIPITATION OCCURRENCES / EVENEMENT DES PRECIPITATIONS

HOURE / HEURE

Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1																								
2																								
3										S														
4																								
5																								
6	S	S	SW																					
7																								
8							ZR	ZR																
9	S	S	S																					
10																								
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21																								
22																								
23	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
24	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SW	S	S	S	S	S	S	S
25																								
26																								
27							RSG	RSG	SG	SG	SG	SG	SG	SG										
28																								

Note/Avis:

R = Rain/pluie : S = Snow/neige : W = Showers/averse de : T = Thunderstorm/orage : L = Drizzle/bruine : Z = Freezing/verglacante
 SP = Snow Pellets/neige roulees : SG = Snow Grains/neige en grains : A = Hail/grele : IP = Ice Pellets/gresil

WINNIPEG INTLA (YWG) MONTH/MOIS: February/fevrier 1999

		WINDS (km/h)															DES VENTS (km/h)											
Hour		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Pk Gust	Hour	
Date		Rafale																										
1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	30	300	
2	SW	W	WSW	SW	SSW	SW	SW	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	35	1400	
3	SW	SW	SW	NW	N	N	N	N	NNE	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	32	1400	
4	NW	WNW	W	W	W	WSW	W	W	W	W	WSW	SW	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SE	SSE	S	37	1600	
5	SE	SSE	S	S	S	S	S	S	S	SSW	SW	WSW	WNW	NW	N	N	NW	NW	NW	NW	NW	NW	NW	NW	NW	28	1800	
6	NNW	NNW	NNW	NNW	NW	NNW	N	C	NNW	E	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	28	2000	
7	S	S	S	SSE	S	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	S	S	SSE	S	S	S	S	S	S	S	S	S	26	1400	
8	S	S	S	S	SSW	SSW	WNWS	S	WSW	W	WSW	WNW	WNW	WNW	W	W	W	W	W	W	W	W	W	W	W	24	1100	
9	WNW	W	WNW	WNW	W	WNW	W	WNW	C	SW	SW	S	SSE	SSE	SE	SE	ESE	SSE	SE	SSE	SE	SSE	SE	ESE	S	11	1700	
10	ESE	ESE	ESE	E	ESE	ESE	ESE	E	E	ESE	SE	SSE	S	S	S	S	S	SW	WNW	WNW	WNW	NW	NW	NW	NW	22	2300	
11	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	24	2000	
12	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	33	600	
13	SW	S	S	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	39	900	
14	S	S	S	SSW	S	C	S	SSW	SW	W	W	WNW	W	WNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NNE	NNE	15	1400	
15	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	33	1300	
16	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	15	100	
17	E	ESE	ESE	E	E	E	E	E	E	ESE	ESE	SE	ENE	NNE	NE	ENE	E	ENE	NE	NE	NE	NE	NE	NE	NE	11	900	
18	NE	NE	NE	ENE	E	ENE	ENE	E	E	E	E	E	E	E	ESE	E	ESE	ESE	C	NNE	NE	NE	ENE	SE	SE	9	1400	
19	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	9	1400	
20	SSE	SSE	SE	SSE	SSE	SE	SSE	SSE	SSE	SSE	S	S	S	S	S	SSW	S	S	S	S	S	S	S	S	S	11	1400	
21	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	15	1900	
22	S	S	SSE	SE	SE	SE	SE	ESE	SE	SE	SE	ESE	SE	SSE	SSE	S	S	SSE	SSE	SSE	SE	SE	SSE	S	S	13	1400	
23	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	37	1900	
24	S	S	S	SW	WSW	W	WNW	NW	NW	NW	NNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	26	100		
25	C	C	C	C	C	C	C	C	S	S	SSE	SE	SSE	S	SSE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	19	1500	
26	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SE	SE	SSE	S	SSE	SE	SE	SSE	SSE	SE	SE	S	S	24	100	
27	E	ESE	E	ENE	NNE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	33	1600	
28	N	N	N	NNE	N	N	N	N	N	NNE	NNW	NE	NNW	C	NNE	C	ESE	S	SSW	S	SSE	SSE	SSE	SSE	6	19		

SUMMARY / SOMMAIRE

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Pdir	S	SW	NNW	W	NW	S	S	S	SSE	ESE	NNW	NNW	S	S	NNE	NE	E	E	SE	S	S	SE	S	NW	SSE	S	N	N			
avgV	35	19	22	19	16	20	25	23	16	30	34	32	28	16	27	16	12	10	16	14	20	18	40	22	19	24	25	12			
dir2	W								W	W																					

NOTE/AVIS: * indicates/indique < 24 hrs and/et >=18 hrs Pdir=Prevailing direction/Direction dominante dir2=2nd Pdir/2ieme Pdir