

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada

Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: December/décembre 2003

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	-4.5	-14.7	-9.6	27.6	0.0	0.0	91	59			0.0	
2	-0.9	-14.7	-7.8	25.8	0.0	0.0	88	56			0.0	
3	0.9	-7.2	-3.2	21.2	0.0	0.0	94	71			0.0	
4	0.5	-6.3	-2.9	20.9	0.0	0.0	99	85			2.5	
5	-6.2	-14.6	-10.4	28.4	0.0	0.0	87	67			TR	
6	-1.8	-10.4	-6.1	24.1	0.0	0.0	96	83			1.0	
7	-0.7	-3.1	-1.9	19.9	0.0	0.0	100	91			TR	
8	-0.8	-17.4	-9.1	27.1	0.0	0.0	100	77			TR	
9	-12.1	-20.2	-16.2	34.2	0.0	0.0	93	73			TR	
10	-12.2	-29.8	-21.0	39.0	0.0	0.0	89	67			TR	
11	-20.5	-31.6	-26.1	44.1	0.0	0.0	78	66			0.0	
12	-12.6	-25.6	-19.1	37.1	0.0	0.0	95	74			0.0	
13	-3.9	-12.7	-8.3	26.3	0.0	0.0	96	91			1.0	
14	-2.0	-12.7	-7.4	25.4	0.0	0.0	99	82			0.5	
15	-2.0	-15.8	-8.9	26.9	0.0	0.0	100	81			3.0	
16	-12.5	-19.8	-16.2	34.2	0.0	0.0	94	79			0.0	
17	-7.0	-15.9	-11.5	29.5	0.0	0.0	95	88			0.0	
18	-2.4	-17.0	-9.7	27.7	0.0	0.0	97	77			0.5	
19	-5.9	-20.5	-13.2	31.2	0.0	0.0	100	88			TR	
20	-2.5	-6.7	-4.6	22.6	0.0	0.0	94	80			0.0	
21	4.3	-5.0	-0.4	18.4	0.0	0.0	92	73			0.0	
22	-0.4	-15.5	-8.0	26.0	0.0	0.0	100	73			0.0	
23	-4.8	-13.2	-9.0	27.0	0.0	0.0	100	79			0.0	
24	-4.4	-11.8	-8.1	26.1	0.0	0.0	100	95			0.0	
25	0.9	-6.8	-3.0	21.0	0.0	0.0	93	77			0.0	
26	-0.4	-4.3	-2.4	20.4	0.0	0.0	94	85			0.0	
27	0.9	-1.1	-0.1	18.1	0.0	0.0	100	88			11.0	
28	0.6	-9.5	-4.5	22.5	0.0	0.0	100	87			4.0	
29	-9.4	-13.4	-11.4	29.4	0.0	0.0	93	86			2.5	
30	-13.4	-23.6	-18.5	36.5	0.0	0.0	94	68			1.0	
31	-14.1	-28.3	-21.2	39.2	0.0	0.0	75	68			1.0	
TOTAL				857.8	0.0	0.0			0.0	0.0	28.0	totale
MEAN	-4.8	-14.5	-9.7				94	78				moyenne
NORMAL	-9.7	-19.1	-14.4	1004.5	0.0	0.0			1.6	19.8	18.5	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 INTLA (YWG) MONTH/MOIS: December/decembre 2003

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	-46	-47	-51	-54	-73	-66	-62	-78	-83	-85	-69	-58	-58	-58	-57	-57	-72	-95	-88	-125	-125	-114	-137	-144
2	-128	-142	-130	-130	-116	-131	-121	-113	-114	-103	-85	-66	-36	-29	-17	-10	-17	-34	-60	-52	-53	-50	-54	-56
3	-56	-62	-63	-62	-62	-66	-65	-70	-63	-56	-40	-19	-12	-1	5	7	1	1	1	2	2	2	2	1
4	0	2	4	4	2	0	0	-1	-1	-1	0	-3	-15	-20	-23	-26	-28	-28	-30	-33	-39	-50	-52	-56
5	-62	-66	-67	-70	-81	-94	-113	-129	-139	-143	-136	-129	-120	-109	-104	-108	-124	-128	-122	-118	-125	-112	-107	-104
6	-103	-100	-96	-92	-82	-73	-64	-61	-53	-47	-43	-33	-30	-28	-26	-28	-26	-25	-25	-23	-20	-19	-20	-18
7	-24	-28	-29	-29	-28	-28	-28	-30	-28	-28	-29	-26	-25	-16	-10	-8	-8	-7	-8	-8	-9	-10	-12	-13
8	-10	-11	-14	-21	-16	-20	-36	-67	-71	-79	-82	-84	-86	-88	-94	-90	-103	-125	-125	-144	-157	-158	-160	-167
9	-172	-183	-179	-188	-187	-198	-181	-195	-196	-192	-161	-146	-138	-128	-126	-125	-131	-139	-143	-144	-132	-128	-127	-125
10	-122	-123	-127	-135	-201	-228	-234	-236	-244	-234	-226	-209	-206	-204	-201	-202	-219	-249	-253	-265	-259	-283	-288	-280
11	-281	-278	-293	-292	-303	-302	-303	-300	-312	-297	-269	-232	-230	-221	-220	-215	-213	-221	-239	-230	-225	-229	-240	-231
12	-229	-226	-238	-254	-239	-229	-221	-215	-226	-210	-184	-166	-160	-155	-148	-149	-153	-158	-160	-145	-146	-145	-143	-136
13	-128	-110	-96	-98	-89	-80	-70	-67	-65	-61	-52	-50	-42	-42	-43	-42	-43	-44	-44	-56	-57	-58	-58	-69
14	-76	-67	-59	-51	-61	-85	-93	-111	-118	-125	-103	-82	-69	-58	-52	-45	-38	-32	-28	-28	-28	-28	-24	-20
15	-24	-20	-20	-26	-27	-28	-27	-24	-22	-34	-34	-27	-35	-47	-59	-64	-72	-79	-90	-113	-122	-133	-142	-157
16	-153	-150	-153	-160	-165	-174	-170	-178	-191	-194	-184	-166	-147	-136	-128	-134	-139	-146	-160	-167	-156	-146	-160	-148
17	-151	-156	-150	-142	-138	-137	-141	-139	-135	-123	-120	-108	-101	-96	-88	-88	-86	-85	-85	-87	-85	-88	-83	-83
18	-87	-103	-96	-100	-79	-100	-75	-59	-51	-52	-42	-38	-26	-26	-28	-28	-35	-51	-48	-78	-114	-133	-140	-146
19	-158	-146	-150	-158	-169	-183	-188	-167	-174	-160	-142	-128	-107	-97	-86	-80	-86	-82	-78	-71	-68	-62	-61	-61
20	-60	-58	-54	-54	-57	-61	-63	-65	-66	-66	-57	-53	-39	-32	-26	-28	-31	-36	-37	-39	-47	-54	-54	-48
21	-44	-49	-33	-30	-26	-18	-5	2	10	5	11	12	20	35	38	37	29	11	9	4	8	-2	-9	-20
22	-25	-9	-15	-19	-19	-20	-19	-21	-13	-7	-7	-13	-20	-28	-30	-33	-39	-59	-111	-102	-130	-131	-150	-113
23	-108	-113	-109	-126	-111	-100	-109	-128	-128	-122	-114	-101	-76	-64	-57	-61	-84	-74	-80	-92	-92	-98	-107	-110
24	-118	-118	-104	-91	-91	-91	-89	-90	-89	-88	-85	-81	-70	-58	-50	-46	-47	-55	-55	-54	-52	-52	-54	-56
25	-54	-51	-54	-50	-49	-51	-67	-64	-58	-55	-43	-22	-15	-9	-4	4	6	-3	-15	-19	-19	-26	-38	-28
26	-24	-28	-29	-38	-38	-37	-31	-31	-36	-38	-31	-24	-17	-12	-9	-12	-20	-22	-25	-19	-32	-18	-10	-5
27	-6	-8	-9	-3	-5	-5	-7	-9	-8	-4	-3	2	7	8	7	9	4	5	6	6	6	8	6	6
28	6	5	4	4	3	2	-9	-28	-38	-46	-57	-66	-71	-71	-70	-69	-67	-64	-63	-61	-65	-69	-73	-81
29	-94	-104	-104	-96	-97	-99	-101	-107	-110	-110	-113	-111	-111	-112	-112	-111	-110	-111	-116	-114	-113	-115	-121	-132
30	-134	-139	-144	-152	-153	-155	-156	-160	-158	-167	-181	-198	-191	-177	-197	-188	-174	-174	-176	-172	-167	-165	-167	-202
31	-234	-234	-223	-226	-231	-241	-240	-251	-268	-255	-260	-223	-213	-191	-186	-181	-183	-188	-187	-170	-160	-146	-146	-141

NOTE/AVIS: 1. Unit = 0.1 C 1. Unite = 0.1 C

WINNIPEG INTL A (YWG) MONTH/MOIS: December/decembre 2003

PRECIPITATION OCCURRENCES / EVENEMENT DES PRECIPITATIONS

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																									
2																									
3																									
4																									
5	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
6																									
7																									
8	ZR																								
9																									
10	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
11																									
12																									
13																									
14	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	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
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28	R	L	L	L	LS	ZLS	ZL	S	SIP	S	S	S	RS	RS	RS	S	S	S	RS	L	L	L	L	L	
29	S	S	S	S	S	S	S	SSG	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
30	SIC	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
31	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

Note/Avis:

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

WINNIPEG INTL A (YWG) MONTH/MOIS: December/decembre 2003

		WINDS (km/h)											DES VENTS (km/h)											Pk	Hour		
Hour	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	Gust	Heur
1	1	W	W	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	600
2	2	S	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1300
3	3	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	1900
4	4	30	32	28	28	22	24	20	22	20	17	13	17	30	30	28	30	28	26	22	26	30	33	37	32	56	2200
5	5	N	N	N	N	N	N	N	N	N	N	NNE	NNE	N	NNE	NNE	NNE	ENE	NNE	ENE	C	ESE	SSE	SSE	N	500	
6	6	20	20	19	20	26	26	28	28	28	37	35	46	37	33	35	39	43	35	37	35	37	41	35	35	63	1400
7	7	37	32	33	37	32	32	28	41	39	35	35	30	35	32	24	28	17	20	15	17	13	13	9	54	400	
8	8	SSE	W	SW	NNW	C	WNW	NW	NW	NW	NNW	NW	NW	NW	NNW	NW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	17	13
9	9	13	11	11	13	11	11	9	6	7	6	0	11	13	15	13	7	6	6	4	7	6	4	4	6	6	
10	10	N	N	N	N	N	NNW	NNW	NW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNE	NW	WNW	NW	NNW	NNW	NNW	NNW	9	
11	11	6	9	9	6	6	11	9	4	4	4	0	0	6	7	4	4	7	0	4	4	7	6	11	11	11	
12	12	ESE	SSE	ENE	E	SSE	SSE	SE	ENE	ESE	SSE	S	S	S	SSW	SSW	S	S	S	S	S	S	S	S	S	S	0
13	13	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	1300
14	14	28	33	33	30	35	35	39	37	35	37	35	35	37	43	37	35	35	35	30	28	35	30	24	13	59	2100
15	15	26	28	20	32	28	24	22	15	17	20	26	30	39	39	41	33	39	32	43	30	24	24	20	19	50	1900
16	16	20	26	22	22	22	11	22	15	13	9	9	6	7	11	7	7	0	4	6	6	7	9	9	11	11	
17	17	11	13	11	17	13	19	20	22	20	24	20	19	17	17	15	7	6	11	7	9	11	7	13	13	33	900
18	18	15	19	20	20	19	17	17	20	19	20	22	24	28	28	24	32	30	15	37	22	9	7	7	4	48	1400
19	19	6	6	11	11	6	4	4	4	4	7	9	11	7	15	17	15	17	19	19	22	22	22	20	26	33	2300
20	20	22	26	35	32	28	28	32	24	24	22	26	24	22	15	19	19	17	17	13	15	13	13	17	44	400	
21	21	S	S	S	SSW	S	SSW	WSW	NW	NW	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	2000	
22	22	19	13	17	17	6	13	9	15	19	17	15	15	17	20	24	22	24	19	20	22	26	22	24	19	33	1100
23	23	15	20	22	20	22	20	28	26	22	26	30	28	22	24	20	28	19	13	6	6	6	0	6	13	39	1100
24	24	13	11	7	9	9	17	13	15	13	15	7	9	7	7	6	4	0	9	7	9	11	7	13	13	13	
25	25	S	S	S	S	S	S	SSE	SSE	SSE	SSE	S	S	S	S	SSE	S	S	S	S	S	S	S	S	S	S	0
26	26	24	26	28	26	32	24	20	22	26	26	26	35	35	26	30	28	22	13	22	22	26	19	19	26	48	1100
27	27	6	9	9	11	11	13	13	11	13	11	11	13	15	15	17	17	17	17	15	15	15	11	13	13	13	100
28	28	9	13	17	17	20	30	33	35	33	30	32	28	30	32	33	32	32	24	22	32	37	32	28	33	48	2200
29	29	28	24	20	26	24	28	30	24	20	24	32	28	32	28	30	24	20	15	19	20	19	15	22	19	37	1000
30	30	19	15	17	15	13	13	13	11	9	13	7	6	11	7	7	9	0	7	11	9	7	11	15	15	15	
31	31	15	15	20	17	20	19	17	15	9	9	4	0	9	13	9	20	19	19	20	22	24	26	30	30	39	2300

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	NW	S	S	S	N	S	S	NW	NW	NNW	NW	S	S	SSE	NNW	NW	S	WNW	S	W	N	S	S	S	S	ENE	N	NNE	N	S	
avgV	22	19	32	26	19	32	27	14	8	13	6	14	33	17	28	12	14	20	13	22	18	18	10	17	25	21	13	28	24	11	17
dir2								NNW	NNW					NNW				NNW			W										

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