

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada
Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: December/décembre 2001

DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRES-JOURS			REL HUMIDITY HUMIDITE REL		PRECIPITATION PRECIPITATIONS			Snow On
	MAX	MIN	MEAN	Heating	Growing	Cooling	MAX	MIN	Rainfall	Snowfall	Total	Ground
	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	neige au sol cm
1	-4.2	-9.7	-7.0	25.0	0.0	0.0	81	71	0.0	2.5	2.5	7
2	-2.5	-11.1	-6.8	24.8	0.0	0.0	92	73	0.0	0.0	0.0	8
3	1.4	-11.9	-5.3	23.3	0.0	0.0	100	68	TR	0.0	TR	8
4	-2.3	-16.4	-9.4	27.4	0.0	0.0	86	60	0.0	0.0	0.0	7
5	-5.1	-13.6	-9.4	27.4	0.0	0.0	97	73	0.0	13.6	10.5	7
6	-9.1	-17.2	-13.2	31.2	0.0	0.0	91	70	0.0	TR	TR	17
7	-6.0	-10.3	-8.2	26.2	0.0	0.0	80	73	0.0	TR	TR	17
8	-7.7	-22.0	-14.9	32.9	0.0	0.0	84	64	0.0	TR	TR	17
9	4.4	-8.6	-2.1	20.1	0.0	0.0	83	64	0.0	0.0	0.0	16
10	0.7	-14.5	-6.9	24.9	0.0	0.0	86	58	0.0	0.2	0.2	15
11	-0.8	-15.0	-7.9	25.9	0.0	0.0	85	70	0.4	0.2	0.6	15
12	-2.7	-17.9	-10.3	28.3	0.0	0.0	83	70	TR	0.2	0.2	15
13	-5.5	-17.7	-11.6	29.6	0.0	0.0	84	72	0.0	TR	TR	15
14	-1.7	-5.5	-3.6	21.6	0.0	0.0	81	74	0.0	0.0	0.0	14
15	2.0	-2.9	-0.5	18.5	0.0	0.0	91	78	0.2	0.0	0.2	13
16	1.1	-2.4	-0.7	18.7	0.0	0.0	94	79	0.8	0.2	1.0	11
17	-1.2	-7.0	-4.1	22.1	0.0	0.0	82	68	0.0	0.0	0.0	11
18	-0.1	-12.6	-6.4	24.4	0.0	0.0	82	54	0.0	0.0	0.0	10
19	-9.2	-21.2	-15.2	33.2	0.0	0.0	93	66	0.0	0.0	0.0	10
20	-12.9	-22.1	-17.5	35.5	0.0	0.0	91	73	0.0	TR	TR	10
21	-2.9	-18.9	-10.9	28.9	0.0	0.0	86	62	0.0	0.2	0.2	10
22	-3.6	-19.6	-11.6	29.6	0.0	0.0	82	70	TR	1.6	1.6	10
23	-10.7	-24.8	-17.8	35.8	0.0	0.0	79	72	0.0	TR	TR	12
24	-11.1	-24.2	-17.7	35.7	0.0	0.0	87	73	0.0	1.0	1.0	12
25	-11.4	-25.1	-18.3	36.3	0.0	0.0	90	71	0.0	0.0	0.0	12
26	-7.9	-16.0	-12.0	30.0	0.0	0.0	82	74	0.0	0.4	0.4	13
27	-7.3	-13.2	-10.3	28.3	0.0	0.0	80	64	0.0	0.6	0.6	13
28	-10.9	-15.6	-13.3	31.3	0.0	0.0	76	69	0.0	1.0	1.0	14
29	-10.3	-15.2	-12.8	30.8	0.0	0.0	77	72	0.0	0.2	0.2	14
30	-15.2	-25.1	-20.2	38.2	0.0	0.0	85	65	0.0	TR	TR	15
31	-13.9	-23.8	-18.9	36.9	0.0	0.0	75	63	0.0	TR	TR	14
TOTAL				882.8	0.0	0.0			1.4	21.9	20.2	totale
MEAN	-5.4	-15.5	-10.5				85	69				moyenne
NORMAL	-9.9	-19.4	-14.6	1013.7	0.0	0.0			1.6	20.1	18.6	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: Decembre/decembre 2001

DRY BULB TEMPERATURES / TEMPERATURES DU THERMOMETRE SEC

HEURE / 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	-56	-57	-54	-54	-57	-55	-53	-46	-49	-54	-54	-53	-50	-57	-58	-51	-52	-54	-53	-52	-50	-49	-50	-71
2	-96	-107	-98	-86	-86	-77	-68	-61	-59	-54	-46	-42	-34	-34	-30	-28	-36	-38	-43	-63	-82	-89	-87	-93
3	-95	-95	-110	-117	-87	-71	-98	-101	-106	-66	-58	-54	-28	-28	-24	-19	-2	-9	5	8	5	-9	-20	-23
4	-43	-65	-53	-44	-39	-29	-46	-47	-26	-47	-48	-43	-44	-44	-43	-43	-74	-86	-135	-152	-154	-162	-145	-137
5	-132	-128	-109	-91	-91	-81	-70	-66	-60	-55	-54	-54	-59	-61	-58	-66	-77	-86	-85	-89	-91	-92	-94	-96
6	-95	-108	-106	-121	-139	-155	-125	-123	-114	-109	-116	-118	-125	-111	-118	-122	-114	-131	-141	-116	-101	-100	-98	-94
7	-91	-87	-78	-74	-73	-73	-73	-73	-77	-79	-82	-81	-80	-73	-62	-71	-75	-84	-88	-91	-94	-100	-88	-83
8	-80	-79	-82	-117	-147	-185	-201	-212	-191	-168	-148	-131	-121	-120	-115	-109	-104	-96	-90	-91	-86	-87	-85	-83
9	-84	-84	-85	-81	-77	-75	-70	-65	-63	-45	-30	-10	13	17	18	9	25	28	33	26	23	16	19	14
10	7	-26	-27	-9	-32	-37	-82	-107	-133	-123	-102	-85	-87	-87	-71	-86	-90	-111	-102	-112	-135	-131	-131	-122
11	-145	-147	-138	-114	-94	-91	-83	-85	-88	-78	-69	-57	-40	-29	-21	-19	-17	-12	-10	-13	-20	-24	-24	-24
12	-27	-32	-50	-72	-88	-88	-99	-106	-115	-119	-120	-122	-122	-121	-121	-127	-142	-150	-141	-144	-148	-151	-156	-159
13	-177	-166	-148	-145	-140	-132	-127	-126	-131	-129	-124	-111	-107	-100	-94	-83	-82	-77	-74	-71	-67	-64	-63	-60
14	-56	-51	-48	-45	-43	-43	-42	-42	-42	-39	-41	-42	-38	-30	-24	-20	-26	-18	-19	-20	-24	-26	-29	-28
15	-28	-26	-19	-17	-13	-7	-1	4	5	9	13	19	18	16	15	14	14	11	13	13	14	11	11	9
16	9	9	5	6	6	5	3	3	2	2	1	-7	-11	-19	-21	-21	-19	-19	-18	-18	-15	-14	-18	-18
17	-23	-26	-28	-32	-38	-42	-48	-58	-60	-68	-57	-41	-24	-24	-28	-16	-22	-28	-32	-44	-37	-43	-39	-35
18	-31	-36	-40	-50	-63	-45	-2	-3	-6	-13	-17	-29	-39	-47	-48	-56	-64	-70	-79	-85	-87	-100	-100	-118
19	-124	-139	-141	-152	-153	-162	-177	-184	-192	-191	-161	-138	-110	-101	-96	-97	-123	-145	-163	-145	-160	-182	-186	-202
20	-200	-212	-192	-197	-191	-204	-203	-212	-215	-208	-193	-167	-156	-148	-142	-136	-132	-147	-163	-172	-174	-176	-171	-173
21	-179	-180	-168	-165	-165	-160	-145	-130	-120	-103	-93	-82	-71	-58	-52	-44	-39	-39	-37	-36	-36	-33	-31	-36
22	-38	-39	-39	-40	-43	-47	-50	-55	-66	-73	-77	-80	-85	-88	-88	-97	-106	-114	-126	-135	-146	-160	-168	-193
23	-193	-198	-212	-226	-230	-232	-236	-230	-219	-228	-207	-181	-152	-133	-129	-129	-138	-125	-118	-112	-109	-111	-115	-118
24	-112	-116	-148	-160	-141	-129	-124	-118	-118	-118	-121	-157	-156	-148	-145	-148	-167	-200	-199	-195	-214	-228	-226	-229
25	-236	-239	-249	-243	-228	-227	-215	-232	-212	-198	-177	-170	-165	-158	-151	-143	-145	-137	-126	-116	-118	-114	-116	-132
26	-157	-141	-138	-138	-131	-126	-130	-126	-118	-114	-107	-101	-95	-87	-85	-82	-106	-145	-136	-152	-139	-142	-111	-100
27	-111	-110	-99	-91	-84	-80	-74	-90	-95	-102	-104	-106	-105	-103	-101	-109	-128	-123	-118	-118	-121	-124	-127	-128
28	-130	-131	-131	-134	-139	-145	-139	-139	-142	-145	-144	-144	-141	-139	-137	-135	-136	-147	-142	-131	-125	-118	-116	-111
29	-110	-108	-106	-104	-104	-117	-117	-113	-114	-114	-109	-108	-107	-107	-108	-111	-114	-118	-124	-126	-129	-135	-140	-144
30	-151	-160	-183	-206	-207	-212	-228	-236	-244	-239	-224	-202	-192	-177	-167	-167	-177	-202	-201	-202	-211	-212	-215	-215
31	-218	-227	-226	-226	-230	-223	-202	-187	-178	-167	-160	-158	-156	-151	-154	-155	-154	-151	-149	-152	-155	-154	-146	-142

NOTE/AVIS:

1. Unit = 0.1 C

1. Unite = 0.1 C

WINNIPEG INTL A (YWG) MONTH/MOIS: December/decembre 2001

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		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
2		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
3		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
4		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
5		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
6	S																							
7																								
8	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
9																								
10																								
11																								
12	ZLS	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
13																								
14																								
15																								
16	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
17																								
18																								
19																								
20																								
21																								
22	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
23																								
24	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
25																								
26																								
27																								
28																								
29	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	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																								

Note/Avis:

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

WINNIPEG INTLA (YWG) MONTH/MOIS: December/décembre 2001

		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	Gust	Hour	
Date																								Rafale			
1	W	W	W	W	W	W	W	WNW	NW	NW	W	WNW	WNW	W	WSW	WSW	SW	S	S	S	SSE	SSE	SSE	SSE			
1	11	13	17	19	17	15	15	15	17	13	15	15	17	13	9	7	7	7	9	7	9	11	11	15			
2	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSE	SSE	SSE	SSE			
2	11	11	13	15	19	19	19	22	19	19	20	17	20	19	20	15	20	19	15	19	15	13	17	15	32	1500	
3	S	S	S	S	SSW	WSW	W	WNW	W	C	SE	S	SE	ESE	SE	E	E	E	SE	SSE	S	SSW	SSW	SSW			
3	13	15	13	6	4	13	15	15	6	0	6	13	4	15	13	17	17	15	20	17	17	22	19	19			
4	WSW	W	WSW	WSW	W	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W	WNW	NW	NW	NNW	C	NE	WNW		
4	17	17	15	17	13	11	13	15	19	15	22	19	19	20	11	9	6	9	7	9	4	9	0	7	33	1100	
5	NNE	NNE	ESE	NNE	NE	NE	NE	NE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	N	NNW	NW	NW	NW	NNW	NNE				
5	6	15	7	13	17	24	20	24	28	35	32	41	44	39	50	44	32	41	37	41	35	35	37	33	59	1300	
6	NW	WNW	NW	NW	W	W	W	W	NW	W	W	W	W	W	NW	W	W	WNW	SW	S	S	SSW	S	S			
6	28	22	17	13	15	11	9	11	9	9	7	7	11	7	6	7	6	6	4	7	9	4	11	9			
7	S	S	SSW	SSW	SSW	S	S	SSW	S	S	S	S	S	S	SSW	S	S	SSW	S	SW	W	WNW	WNW	WNW	SSW		
7	6	6	7	13	13	19	24	22	22	24	20	24	28	26	33	26	22	24	26	17	17	22	19	15	48	500	
8	W	W	WNW	NNW	NW	NW	NW	C	SW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
8	13	22	24	20	20	15	11	0	7	6	13	20	20	28	26	32	33	35	35	33	32	33	28	50	2000		
9	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WSW	WSW	W	W	WNW	WNW	NW	S		
9	33	28	33	37	35	35	35	28	37	35	30	32	32	26	22	15	15	20	24	33	35	33	28	50	600		
10	WNW	WNW	NW	NNE	NNW	NNW	NNW	NNW	N	WSW	SW	C	SW	SSW	SSW	S	SSW	SSW	S	S	S	S	S	N			
10	24	15	17	20	20	33	20	17	15	9	9	9	9	0	9	7	9	11	17	19	11	15	17	20	48	400	
11	S	S	S	S	S	SSE	SE	E	ENE	E	E	E	E	ENE	ENE	E	E	E	ENE	ENE	NNE	NNE	NNE	N			
11	11	19	17	17	13	9	11	11	11	15	17	19	15	19	19	24	17	17	17	13	15	19	15	17			
12	NNW	NW	WNW	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	SW	SW	SW	SW	WNW				
12	15	26	30	33	30	22	28	28	28	28	24	19	19	20	15	15	9	7	4	9	7	6	9	41	400		
13	W	W	WSW	S	SSE	S	S	SSW	S	S	S	S	S	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	SE	ESE	SE			
13	11	9	6	7	4	11	9	9	9	11	15	20	19	17	17	13	20	17	22	17	17	17	13				
14	SE	SE	SSE	SE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	S	S	SSE	S	S			
14	13	19	20	15	19	20	20	19	22	20	35	33	30	32	32	30	20	33	39	30	44	32	33	41	56	0	
15	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	SSE			
15	35	32	35	28	26	28	28	26	26	20	30	26	26	24	22	24	26	26	17	17	17	11	9	46	300		
16	S	S	C	NE	NNE	NNW	NNW	NNW	NNW	NW	NW	WNW	WNW	WNW	WNW	W	SW	SSW	SSW	S	S	S	WNW				
16	7	6	0	4	6	9	6	9	13	11	22	19	20	30	20	15	17	15	9	13	15	15	20	33	1300		
17	S	S	S	S	S	S	S	S	S	S	SSW	S	S	SSW	S	SE	SSE	S	SE	S	SSE	S	S	S			
17	26	28	28	28	28	22	20	17	20	11	11	7	7	9	7	11	11	17	15	9	15	13	13	11	35	200	
18	SSW	S	S	SW	W	NW	NW	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	NW			
18	11	13	7	13	11	19	35	43	33	37	33	39	39	35	26	26	22	28	26	24	26	24	26	19	56	1100	
19	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	NW	NNW	N	NNE	N	WNW	NNW	WNW	N	ENE	NE	W	C	C	N				
19	19	17	7	6	7	15	13	9	11	11	7	4	7	4	6	7	6	11	4	6	0	0	4				
20	N	N	NE	NE	NE	NNE	NW	WNW	WNW	NW	NNW	NNW	NW	WNW	WNW	WNW	C	W	WSW	W	ESE	C	SW				
20	4	4	7	9	7	7	7	6	4	6	6	6	4	9	9	6	0	7	9	7	7	4	0	6			
21	SSE	SSE	S	S	S	S	SSE	SE	SSE	SE	SE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE			
21	11	9	11	11	9	11	13	13	13	15	17	13	19	22	26	28	30	26	28	20	19	17	15	17	41	1600	
22	E	ENE	ENE	ENE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	N	N	N	N	N	N	N	N	N	NNW	NNW	NNE		
22	15	17	15	17	17	28	30	39	39	41	43	44	44	46	41	33	28	26	24	30	26	19	26	63	1300		
23	NNW	NW	NW	W	WNW	NW	WNW	NW	WNW	WNW	WNW	WNW	WNW	NNW	N	N	N	NNW	NNW	NNW	NNW	N	N				
23	15	19	17	11	17	13	15	15	15	7	7	9	15	22	20	19	11	17	19	22	22	20	19	19			
24	N	N	NNE	N	NNW	N	NNW	N	NNW	WNW	WNW	W	WNW	WNW	WNW	NNW	N	NNW	N	N							
24	20	15	9	7	11	7	7	9	7	4	17	15	9	15	17	13	7	9	9	9	7	7	11	11			
25	NNW	NNW	NNW	NNW	NW	NW	WNW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW			
25	11	13	13	17	15	9	13	11	13	11	13	17	19	19	20	33	32	24	26	24	33	24	19	20	39	2000	
26	NW	NW	NW	NW	WNW	NW	W	WNW	NW	WNW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	N	N	NNW	NNW	NNW			
26	15	13	15	15	19	13	15	17	13	15	15	11	15	15	13	15	11	17	17	19	13	9	11	26	37	0	
27	NW	NW	NNW	NW	WNW	NW	WNW	NW	N	NNW	NNW	NW	NNW	NW	NW	N	W	NNW	N	NNW	NNW	NNW	NNW	NW			
27	17	17	20	17	19	20	26	30	17	19	17	20	19	19	24	20	17	17	20	22	22	26	20	22	39	700	
28	NNW	NNW	NNW	N	N	NW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW		
28	22	20	24	28	19	13	20	26	15	17	24	26	28	32	28	28	26	20	26	22	28	20	20	37	1300		
29	NW	NW	NNW	NNW	NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW			
29	26	24	24	22	22	22	24	22	24	24	22	26	28	32	28	26	35	30	30	35	28	24	22	44	2000		
30	NW	NW	NW	NW	WNW	WNW	WNW	NW	WNW	WNW	W	WNW	WNW	W	WNW	WNW	W	WNW	WNW	W	WNW	WNW	WNW	NNW			
30	19	17	24	13	15	13	11	13	11	13	17	13	11	13	11	13	17	17	15	11	13	15	19	32	200		
31	WNW	WNW	WNW	W	WNW	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW			
31	17	15	19	17	19	15	17	17	19	20	24	22	26	22	28	22	24	24	19	15	19	17	20	19	35	1400	

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	W	SSE	S	W	NE	W	S	S	S	S	E	WNW	S	SSE	S	NNW	S	NW	WNW	WNW	ESE	N	NW	N	NW	NW	NW	NNW	NNW	WNW	WNW
avgV	13	17	13	13	34	10	20	22	30	15	16	19	14	27	24	13	16	26	8	6	17	30	16	10	19	15	20	23	26	14	20
dir2	S																N														

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