

# MONTHLY METEOROLOGICAL SUMMARY

## SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada

Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: October/octobre 2003

DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRES-JOURS			REL HUMIDITY HUMIDITE REL		PRECIPITATION PRECIPITATIONS			Snow On Ground
	MAX	MIN	MEAN	Heating	Growing	Cooling	MAX	MIN	Rainfall	Snowfall	Total	neige au sol
	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	7.4	-8.8	-0.7	18.7	0.0	0.0	96	49	0.0	0.0	0.0	
2	14.2	0.3	7.3	10.7	2.3	0.0	75	46	0.0	0.0	0.0	
3	14.3	2.4	8.4	9.6	3.4	0.0	97	55	0.0	0.0	0.0	
4	17.0	1.5	9.3	8.7	4.3	0.0	100	53	0.0	0.0	0.0	
5	20.6	3.7	12.2	5.8	7.2	0.0	81	45	0.0	0.0	0.0	
6	25.8	4.8	15.3	2.7	10.3	0.0	93	32	0.0	0.0	0.0	
7	27.1	4.8	16.0	2.0	11.0	0.0	85	26	0.0	0.0	0.0	
8	27.4	8.6	18.0	0.0	13.0	0.0	82	35	TR	0.0	TR	
9	26.5	9.2	17.9	0.1	12.9	0.0	94	31	0.0	0.0	0.0	
10	19.2	5.2	12.2	5.8	7.2	0.0	85	30	0.0	0.0	0.0	
11	14.9	6.2	10.6	7.4	5.6	0.0	100	61	2.0	0.0	2.0	
12	17.5	2.1	9.8	8.2	4.8	0.0	96	41	0.0	0.0	0.0	
13	15.8	2.6	9.2	8.8	4.2	0.0	96	39	0.5	0.0	0.5	
14	11.2	-1.3	5.0	13.0	0.0	0.0	94	50	TR	0.0	TR	
15	9.4	-3.6	2.9	15.1	0.0	0.0	83	37	0.0	0.0	0.0	
16	6.9	-4.2	1.4	16.6	0.0	0.0	88	47	0.0	0.0	0.0	
17	13.2	-3.7	4.8	13.2	0.0	0.0	91	54	0.0	0.0	0.0	
18	13.7	-1.4	6.2	11.8	1.2	0.0	97	51	0.0	0.0	0.0	
19	18.4	4.3	11.4	6.6	6.4	0.0	85	47	0.0	0.0	0.0	
20	13.2	1.7	7.5	10.5	2.5	0.0	97	66	0.0	0.0	0.0	
21	13.7	4.6	9.2	8.8	4.2	0.0	97	54	0.0	0.0	0.0	
22	15.6	3.6	9.6	8.4	4.6	0.0	89	44	0.0	0.0	1.5	
23	6.8	1.3	4.1	13.9	0.0	0.0	92	61	TR	0.0	TR	
24	11.4	1.1	6.3	11.7	1.3	0.0	85	52	0.5	0.0	0.5	
25	3.0	-2.8	0.1	17.9	0.0	0.0	83	56	TR	0.0	TR	
26	1.2	-2.1	-0.5	18.5	0.0	0.0	97	72	0.0	1.0	0.5	
27	0.9	-0.8	0.1	17.9	0.0	0.0	99	86	0.0	13.0	13.0	
28	3.1	-3.5	-0.2	18.2	0.0	0.0	100	90	0.0	1.0	1.0	
29	1.1	-8.7	-3.8	21.8	0.0	0.0	97	35	0.0	TR	0.0	
30	1.3	-2.1	-0.4	18.4	0.0	0.0	100	92	0.0	TR	TR	
31	-1.3	-8.6	-5.0	23.0	0.0	0.0	93	66	0.0	TR	TR	
<b>TOTAL</b>				<b>353.8</b>	<b>106.4</b>	<b>0.0</b>			<b>3.0</b>	<b>15.0</b>	<b>19.0</b>	<b>totale</b>
<b>MEAN</b>	<b>12.6</b>	<b>0.5</b>	<b>6.6</b>				<b>89</b>	<b>52</b>				<b>moyenne</b>
<b>NORMAL</b>	<b>10.8</b>	<b>-0.3</b>	<b>5.3</b>	<b>395.5</b>	<b>66.5</b>	<b>0.2</b>			<b>31.0</b>	<b>5.0</b>	<b>36.0</b>	<b>normale</b>

- 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.

**DRY BULB TEMPERATURES / TEMPERATURES DU THERMOMETRE SEC**

HR / 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	-44	-39	-58	-71	-81	-73	-66	-48	-26	6	28	40	42	54	59	68	69	66	30	17	26	28	24	23
2	15	7	10	11	11	3	9	13	20	41	58	81	104	118	132	139	135	135	134	128	121	109	97	99
3	99	99	77	71	44	32	35	35	58	85	109	115	128	133	137	135	131	122	115	90	97	93	94	82
4	84	79	72	63	44	31	17	27	61	88	101	119	137	151	157	164	163	160	123	111	97	98	93	81
5	72	68	56	48	43	44	40	47	68	89	118	145	167	188	194	202	202	184	152	140	132	118	100	86
6	69	62	72	58	58	58	58	55	77	107	141	177	208	230	243	258	257	239	208	170	160	155	140	109
7	88	73	65	64	70	57	58	51	88	129	162	194	222	247	265	271	269	258	197	156	139	118	114	93
8	111	117	144	101	103	96	118	128	144	186	191	214	236	257	269	263	272	252	230	221	214	198	187	185
9	178	172	176	160	128	111	101	94	109	142	173	207	235	257	261	263	250	241	224	216	212	199	187	174
10	152	132	107	74	63	67	93	91	122	150	177	190	184	186	174	178	177	162	153	146	132	126	125	122
11	114	94	103	99	97	86	89	91	91	95	101	106	115	125	139	146	124	119	112	100	100	81	67	67
12	70	52	35	24	33	33	41	36	55	81	114	137	152	163	170	163	158	137	122	125	130	114	127	126
13	98	87	86	86	84	77	64	45	63	78	100	122	133	131	150	152	146	128	110	66	58	41	29	40
14	33	25	35	24	20	9	-8	-8	5	53	81	91	97	104	92	80	71	69	50	51	26	-4	12	34
15	29	28	27	23	-11	-34	-21	-28	-10	17	55	65	73	84	84	84	72	67	41	30	17	26	30	20
16	6	-15	-9	3	4	-1	-28	-5	-1	27	47	57	62	59	66	55	51	45	-9	10	-19	-28	-21	-4
17	-32	-12	-13	-7	2	19	17	18	28	40	56	75	103	121	119	125	125	126	93	83	86	76	75	63
18	29	12	9	5	2	-7	-7	10	10	59	96	114	118	121	133	131	128	114	106	92	97	90	76	85
19	83	69	58	67	59	48	45	48	57	79	104	125	140	163	177	179	182	148	124	90	115	102	95	90
20	79	86	86	77	56	18	30	38	49	74	99	107	122	124	112	105	95	92	83	57	67	65	70	72
21	59	57	47	50	52	54	57	55	58	82	88	98	118	124	135	136	128	107	100	93	82	58	58	59
22	62	42	58	46	57	61	51	55	55	118	139	147	152	148	142	129	114	103	92	87	72	63	55	47
23	42	27	28	27	25	25	19	15	18	25	32	42	50	54	57	64	61	62	64	64	58	52	52	54
24	53	58	56	58	57	66	75	78	78	88	86	104	100	99	92	81	83	58	63	48	40	36	38	23
25	11	3	-1	-3	-13	-16	-23	-26	-24	-19	-2	6	18	20	16	19	13	5	-1	-5	-21	-16	-10	-12
26	-16	-17	-18	-13	-13	-20	-20	-19	-15	-12	-7	-2	3	3	3	6	11	10	9	6	4	3	5	5
27	4	1	-2	-2	-3	-4	-6	-6	-8	-7	-1	0	1	4	6	6	7	6	6	5	6	6	5	6
28	6	6	6	5	5	5	4	3	-1	2	4	5	7	8	9	10	10	2	-24	-17	-17	-20	-31	-32
29	-29	-39	-64	-77	-86	-35	-42	-50	-58	-35	-16	-2	5	4	7	8	6	-5	-5	3	2	-3	-6	-7
30	-6	-5	-6	-4	-5	-10	-10	-8	-8	-2	0	2	4	7	11	11	11	6	2	2	-5	-18	-13	-14
31	-17	-19	-18	-24	-36	-36	-37	-36	-35	-33	-29	-28	-23	-20	-20	-26	-29	-39	-54	-58	-71	-75	-73	-83

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

WINNIPEG INTL A (WVG) MONTH/MOIS: October/octobre 2003

PRECIPITATION OCCURRENCES / EVENEMENT DES PRECIPITATIONS

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	
HOUR / HEURE																									
1																									
2																									
3	RW																								
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27																									
28	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
29																									
30																									
31																									

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 roulee : SG = Snow Grains/neige en grains : A = Hail/grele : IP = Ice Pellets/gresil

WINNIPEG INTLA (YWG) MONTH/MOIS: October/octobre 2003

		WINDS (km/h) / DES VENTS (km/h)																							Pk	Hour
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	Heur
Date																								Rafale		
1	ENE	C	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSW	W	SW	SW	S	SSW	S	S	S	S	S	S		
2	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSW	SSW	SSW	SSW	S	S	S	S	WNW	NW	NNW	NNW	NNW	NNW	SSW	
3	NNWN	NW	NNWN	NNWN	NNW	NNW	NNWN	NNWN	NNWN	N	NNWN	NNWN	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNWN	NW	N			
4	NNWN	NW	WNWN	NNE	NE	C	C	E	S	SSE	E	SSE	ESE	SE	ESE	SE	E	E	E	ESE	SE	SSE	SSE			
5	SSE	SSE	SSE	SE	ESE	ESE	SE	SE	SE	SSE	SE	SE	SE	SE	SSE	S	SSE	SE	ESE	SE	SSE	SSE	SSE			
6	SSE	S	SSE	S	S	S	S	S	SSW	S	S	SSW	S	S	SW	SW	SSW	SSW	S	S	S	S	C			
7	S	S	S	S	S	S	SSW	S	S	SSW	S	C	S	SSE	SSE	S	SW	W	NW	NNWN	NNE	C	N			
8	S	C	C	ENE	ENE	E	S	SSE	S	SSE	SSE	S	SE	SE	SE	ESE	ESE	SE	SE	SE	SE	SE	WSW			
9	SE	SSE	S	W	W	WSW	SW	SSW	SW	SW	SSW	S	SSW	S	S	S	S	S	S	S	S	SSW	SSW	S		
10	SSW	SSW	W	WNW	NNW	NE	ENE	SE	N	NE	NNE	NNE	ENE	NE	N	NNE	NNE	N	NNE	NNE	N	NW	NW			
11	N	N	NW	NW	SSE	W	W	WNW	WNW	WSW	WSW	WSW	W	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	W	NNW			
12	W	W	W	W	W	WSW	W	W	WSW	WSW	WSW	SW	W	SW	SE	SSE	S	WSW	SW	WSW	WSW	SW	SW			
13	WNW	WNW	NW	WNW	WSW	W	W	W	WNW	WNW	WNW	WNW	WNW	NNWN	NNWN	NW	NW	NW	NW	W	W	W	NW			
14	WNW	W	W	W	W	W	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	NNWN	NNWN	N							
15	NW	NNW	NNW	NNW	NNW	W	W	W	W	W	WNW	WNW	NW	NW	NW	NNW	WNW	WSW	WSW	W	W	WNW				
16	WNW	NW	N	N	WNW	WNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NNW	NNW	C	S	N					
17	S	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SW	S			
18	C	WSW	NW	WNW	WNW	WNW	WNW	NNWN	NNE	NNE	NNE	N	NNE	NE	E	ENE	E	E	E	E	ESE	ESE				
19	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	S	SSE	SSE	SSE	E	E	ESE				
20	SE	SE	SE	S	C	NNW	NNW	NW	NNW	NNW	NNW	NNW	NW	NW	NNW	NW	N	N	NW	W	W	NNW				
21	WNW	NW	NW	WNW	WSW	C	W	NW	NW	N	NE	WNW	ENE	ENE	E	E	SE	S	SSE	S	S					
22	S	S	S	S	SSW	SSW	SW	WSW	WNW	NW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNW			
23	NNE	NNE	N	N	NNE	NE	NNE	NE	E	E	SSE	SSE	ESE	ESE	SSE	ESE	SE	SSE	SE	SE	SE	NNE				
24	SSE	SSE	SSE	S	SSW	WSW	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	NNWN	WNW			
25	N	N	N	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NW	WNW	W	SW	SW	SSW	N			
26	SSW	SW	SSW	SSW	SSW	S	S	S	S	S	SSW	SSW	NNWN	NE	NNE	NNE	E	C	C	SE	C					
27	S	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	ESE	E	ENE	NE	SE				
28	NNE	NNE	NNE	N	N	N	N	N	N	NNWN	NNWN	NNWN	N	NNWN	NNWN	NNWN	N	NNWN	NNE	NE	C	C	NNE			
29	NNW	NE	NE	NW	N	NE	NNE	NE	ENE	E	E	NE	NE	NE	NE	NNE	NNE	E	ENE	NE	NE					
30	NE	NE	NE	ENE	NE	NNE	NNE	N	WNW	NNE	NW	WNW	NNW	NNW	NNW	NNWN	NNWN	NNW	NNW	NNW	NNW	NW	NNW			
31	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	W	W	W	WSW	WSW	WSW	NW			

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	WNW	SSW	NNW	E	SE	S	S	SE	S	NNE	WNW	NW	WNW	NW	S	WNW	SE	NW	NW	NNW	SE	W	N	SSW	SSE	N	NE	NNW	NNW		
avgV	11	20	16	8	15	12	8	14	20	15	16	12	14	15	20	14	18	11	14	18	7	29	17	24	26	11	25	16	9	12	26
dir2																															

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