

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada

Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: October/octobre 1999

DATE	TEMPERATURE			DEGREE-DAYS			REL HUMIDITY		PRECIPITATION			Snow On Ground
	MAX	MIN	MEAN	Heating	Growing	Cooling	MAX	MIN	Rainfall	Snowfall	Total	
			moyenne	de	de crois-	de retri-			de pluie	de neige	precip.	neige
	C	C	C	base 18	base 5	base 18	%	%	hauteur	hauteur	totales	au sol
									mm	cm	mm	cm
1	5.6	-3.9	0.9	17.1	0.0	0.0	77	45	0.0	0.0	0.0	0
2	7.1	-9.4	-1.2	19.2	0.0	0.0	86	34	0.0	TR	TR	0
3	10.2	-6.9	1.7	16.3	0.0	0.0	85	32	0.0	0.0	0.0	0
4	11.8	-1.0	5.4	12.6	0.4	0.0	98	51	5.2	0.0	5.2	0
5	6.5	-2.2	2.2	15.8	0.0	0.0	93	37	0.0	0.0	0.0	0
6	7.6	-2.6	2.5	15.5	0.0	0.0	86	44	0.4	0.0	0.4	0
7	10.2	-0.9	4.7	13.3	0.0	0.0	99	68	0.2	0.0	0.2	0
8	13.0	1.1	7.1	10.9	2.1	0.0	100	64	0.2	0.0	0.2	0
9	14.0	5.2	9.6	8.4	4.6	0.0	95	58	1.4	0.0	1.4	0
10	15.8	1.1	8.5	9.5	3.5	0.0	90	35	0.0	0.0	0.0	0
11	9.7	-0.8	4.5	13.5	0.0	0.0	95	58	3.4	0.0	3.4	0
12	11.3	-0.2	5.6	12.4	0.6	0.0	98	59	TR	0.0	TR	0
13	10.0	-3.8	3.1	14.9	0.0	0.0	100	61	0.2	0.0	0.2	0
14	16.4	3.7	10.1	7.9	5.1	0.0	81	40	0.0	0.0	0.0	0
15	9.9	4.7	7.3	10.7	2.3	0.0	98	68	2.4	0.0	2.4	0
16	7.5	2.4	5.0	13.0	0.0	0.0	99	69	6.0	0.0	6.0	0
17	8.8	-0.5	4.2	13.8	0.0	0.0	100	58	0.2	0.0	0.2	0
18	7.3	1.2	4.3	13.7	0.0	0.0	99	82	4.6	0.0	4.6	0
19	2.4	-4.5	-1.1	19.1	0.0	0.0	88	63	0.0	TR	TR	0
20	15.1	-1.7	6.7	11.3	1.7	0.0	84	54	TR	TR	TR	0
21	13.2	4.1	8.7	9.3	3.7	0.0	73	39	0.0	0.0	0.0	0
22	5.8	-5.8	0.0	18.0	0.0	0.0	88	50	0.0	0.0	0.0	0
23	6.7	-8.5	-0.9	18.9	0.0	0.0	98	38	0.0	0.0	0.0	0
24	13.6	-1.3	6.2	11.8	1.2	0.0	70	44	0.0	0.0	0.0	0
25	13.9	-5.8	4.1	13.9	0.0	0.0	85	29	0.0	0.0	0.0	0
26	9.4	-8.0	0.7	17.3	0.0	0.0	100	53	0.0	0.0	0.0	0
27	7.5	-0.2	3.7	14.3	0.0	0.0	97	59	2.4	0.0	2.4	0
28	9.6	-4.5	2.6	15.4	0.0	0.0	83	52	0.0	0.0	0.0	0
29	10.7	-2.0	4.4	13.6	0.0	0.0	90	49	TR	0.0	TR	0
30	12.0	-1.6	5.2	12.8	0.2	0.0	95	51	0.0	0.0	0.0	0
31	17.7	-1.5	8.1	9.9	3.1	0.0	89	43	0.0	0.0	0.0	0
TOTAL				424.1	28.5	0.0			26.6	TR	26.6	totale
MEAN	10.3	-1.7	4.3				91	51				moyenne
NORMAL	11.3	0.1	5.7	380.9	74.9	0.3			24.6	4.9	29.5	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 INTL A (YWG) MONTH/MOIS: October/octobre 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	30	26	18	14	14	10	11	11	15	25	37	40	44	47	48	46	41	37	26	23	8	-28	-15	-12
2	-39	-61	-79	-77	-61	-39	-23	-15	-8	-1	20	33	45	50	53	59	58	57	16	9	19	24	25	12
3	14	-4	-20	-16	-61	-51	-33	-26	-4	18	38	65	67	76	76	84	97	92	74	41	37	23	7	14
4	11	7	5	-3	-8	7	3	5	13	31	56	72	86	98	114	114	111	90	73	72	62	57	51	37
5	26	27	27	25	20	9	-3	-9	1	15	27	34	42	52	57	59	58	48	-1	-17	-9	-8	13	6
6	5	6	17	1	-8	-4	-16	-24	9	29	44	59	60	59	68	69	62	58	55	48	46	46	46	48
7	34	37	36	38	37	41	42	37	48	55	62	69	77	90	94	97	95	86	58	39	26	20	16	-2
8	9	18	30	30	31	41	45	46	55	49	72	89	93	101	116	122	128	124	105	72	67	56	60	71
9	73	87	93	97	100	99	114	107	105	103	86	96	107	118	125	125	136	128	97	86	73	72	83	68
10	51	48	39	34	17	30	25	19	37	70	90	117	138	156	153	150	144	124	71	50	25	46	23	38
11	34	30	34	16	23	6	1	-2	19	35	55	76	93	96	82	79	71	66	63	62	58	59	63	66
12	57	55	52	43	51	48	44	41	45	48	61	83	79	90	96	100	105	70	51	37	34	31	25	0
13	6	-6	-10	-17	-21	-23	-40	-30	-20	4	38	66	68	76	86	100	92	91	86	85	83	76	82	85
14	86	87	83	76	65	57	55	45	53	70	95	112	123	142	150	155	153	103	110	64	58	38	47	58
15	70	56	68	89	90	93	93	85	69	74	78	87	84	89	93	96	91	85	75	72	59	59	55	52
16	47	44	43	40	35	28	25	25	29	39	43	51	64	67	71	68	60	57	41	42	35	27	29	31
17	27	26	23	23	20	22	6	3	6	30	50	58	76	67	74	75	77	72	66	65	62	61	58	55
18	52	44	39	40	39	38	39	37	40	45	52	58	59	62	73	51	49	43	45	40	41	35	24	19
19	13	6	2	-2	-3	-7	-10	-16	-17	-12	-12	-5	4	13	7	24	17	0	-12	-17	-40	-39	-26	-21
20	-17	-13	-8	-1	5	9	11	12	21	44	55	87	117	135	142	149	138	134	122	106	107	87	86	76
21	86	97	92	100	102	88	83	95	109	114	119	124	129	118	114	105	97	91	69	76	68	51	58	44
22	48	51	36	14	11	9	11	9	4	21	26	35	46	43	48	46	34	22	15	6	-4	-7	-7	-30
23	-57	-70	-82	-83	-73	-70	-72	-74	-62	-2	14	27	43	51	57	66	60	52	31	17	25	21	11	12
24	5	0	-4	-8	-5	-8	-12	-12	2	26	59	80	87	103	121	111	116	114	91	86	88	82	88	96
25	135	130	123	102	81	65	62	57	64	86	104	115	121	125	121	119	113	90	35	6	-2	-32	-21	-17
26	-34	-22	-54	-42	-44	-72	-68	-63	-34	3	37	52	62	79	88	93	88	80	78	74	73	67	71	79
27	67	55	41	23	26	36	27	25	35	52	65	66	73	58	34	34	41	34	19	18	18	14	14	11
28	-2	-7	-12	-17	-24	-25	-28	-37	-17	7	21	43	67	69	79	82	87	67	68	68	46	52	53	51
29	50	53	55	58	62	58	62	58	58	61	72	79	93	90	97	102	96	74	63	57	48	38	21	-16
30	15	-2	11	29	37	46	41	42	44	48	55	68	81	103	109	115	119	103	72	61	57	57	57	45
31	32	18	9	-13	-11	-2	11	10	26	49	82	109	134	156	170	177	174	155	147	157	166	160	146	133

1. Unite = 0.1 C

1. Unit = 0.1 C

NOTE/AVIS:

WINNIPEG INTL A (YWG) MONTH/MOIS: October/octobre 1999

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									S																
3																									
4																									
5																									
6	L																								
7	L	L																							
8						R																			
9						RW																			
10																									
11																									
12																									
13																									
14																									
15																									
16	R																								
17																									
18	R																								
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
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 roulée : SG = Snow Grains/neige en grains : A = Hail/grele : IP = Ice Pellets/gresil

WINNIPEG INTL A (YWG) MONTH/MOIS: October/octobre 1999

		WINDS (km/h)											DES VENTS (km/h)											Pk Gust	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	Rafale	Heur
1		NW	NNW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	100
2		NW	WNW	NW	N	W	WNW	W	WSW	W	WNW	WSW	W	WNW	WNW	WNW	WSW	WNW	WNW	WSW	SW	SW	SW	WSW	WNW	1300	
3		13	13	9	15	11	13	9	11	11	13	11	15	19	20	19	13	17	15	13	9	13	11	13	13	35	1600
4		11	13	9	13	7	4	4	0	9	9	9	11	22	19	11	17	20	28	20	11	15	13	15	19	46	1600
5		19	17	20	15	15	17	20	17	22	22	19	19	13	19	20	17	9	0	6	13	13	11	4	22		
6		N	N	N	NNW	N	N	N	N	N	N	N	NNE	N	NNE	NW	NW	WNW	WNW	NNW	NNW	NNW	NW	W	W	4	
7		17	20	19	19	20	17	20	17	19	20	17	13	15	15	13	17	6	17	11	9	6	4	4	4		
8		W	ENE	E	W	C	SSE	SSE	ESE	ESE	SE	SSE	SSE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	1800	
9		4	7	7	6	0	4	6	9	11	11	15	19	22	26	26	28	30	20	26	26	20	22	24	22	37	200
10		ESE	ESE	E	E	E	E	E	E	E	ESE	ESE	C	NNW	N	N	N	N	NE	NE	NE	NNE	C	NE	E	35	
11		17	26	19	15	13	15	13	7	9	11	11	4	0	7	7	7	11	7	11	11	6	4	0	6	35	
12		ESE	SSE	SSW	S	S	S	ESE	SSE	SE	NE	E	ENE	NE	ENE	WNW	WNW	WNW	WSW	SSW	SSE	S	SSE	SSE	SSE	200	
13		4	6	7	6	7	4	11	9	7	15	11	9	13	7	6	9	6	6	7	13	13	13	15	17		
14		SSE	SSE	SSE	S	SSE	SSE	S	SSW	SSW	WNW	WNW	WNW	NW	WNW	NW	WNW	WNW	WSW	SW	SW	SW	WSW	WSW	SSE	500	
15		17	19	24	28	30	26	26	24	15	24	13	19	28	24	24	20	20	15	9	13	13	17	17	17	46	
16		W	W	W	W	W	W	W	W	W	W	WNW	W	WNW	NW	NW	NNW	NW	NW	NW	W	W	W	WSW	WNW	1400	
17		15	19	17	15	11	17	13	15	17	17	20	24	20	28	33	32	24	19	13	9	7	11	6	11	46	
18		SW	WSW	WSW	WSW	SSW	S	S	C	SSE	SE	SSE	SSE	S	ESE	E	E	E	E	E	ESE	E	ESE	ESE	ESE	2100	
19		13	13	13	13	17	7	6	7	0	4	7	9	13	6	7	15	9	19	24	30	30	43	19	15	52	
20		NNE	NNE	NNE	N	N	N	N	NNW	NNW	N	N	N	N	N	N	N	NNE	NW	NNW	NW	WNW	WNW	NNW	N	600	
21		11	19	22	15	20	24	35	28	24	19	20	33	28	35	22	17	17	9	13	11	11	11	7	13	41	
22		NW	NNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	C	S	S	S	S	S	S	SSE	SSE	SSE	S	S	S	S	S	2300	
23		11	9	11	11	11	9	11	13	6	6	0	9	9	6	15	15	17	20	20	15	22	22	24	28	37	
24		S	S	S	S	S	S	S	SSW	SW	W	NNW	NW	WNW	N	NW	WNW	WSW	SW	SSW	SW	SSW	SW	SSW	SW	200	
25		33	33	30	28	22	20	17	9	9	11	17	20	9	15	7	11	7	11	6	6	6	6	6	9	52	
26		SW	SW	W	WNW	NNW	NNW	NW	WNW	WNW	NNW	NNW	NNW	C	WNW	NE	NNE	N	N	N	NNW	NNW	NW	NNW	NW	400	
27		13	4	20	22	22	20	11	4	7	9	6	11	6	4	6	0	6	7	6	17	20	11	11	15	39	
28		NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NW	NW	NNW	NW	NW	N	NNW	NNW	NNW	400	
29		17	20	22	24	24	19	19	20	19	20	20	19	20	17	17	20	22	13	11	13	7	7	11	13	33	
30		NW	WNW	WNW	NW	W	WNW	WNW	WSW	W	SW	SSW	S	SSW	S	SSW	S	S	S	S	S	S	S	S	S	SSE	
31		9	9	7	7	7	7	9	7	6	6	7	13	15	15	17	24	19	19	20	22	24	22	22	28	37	
32		S	S	S	S	SSE	S	S	WNW	WNW	WNW	NW	NNW	NW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	2100	
33		24	20	20	19	11	9	4	6	13	11	22	20	17	26	26	32	19	17	20	30	30	30	32	33	48	
34		NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	W	WNW	W	S	S	S	S	S	S	NNW	
35		32	37	32	30	30	32	26	19	30	26	32	26	22	20	17	11	19	9	6	4	11	13	17	20	50	
36		S	S	S	S	S	S	S	S	S	SSW	S	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	100	
37		22	24	26	22	26	24	26	35	32	32	24	22	20	17	15	17	7	7	13	13	13	11	13	13	46	
38		SW	SW	WSW	WSW	WSW	W	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	
39		15	15	17	17	17	17	22	24	35	32	48	56	52	57	63	50	46	50	26	24	22	22	22	17	82	
40		NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNW	NNW	N	NNW	NNW	N	NNW	NNW	N	200	
41		37	33	37	22	26	26	22	24	17	35	33	33	30	30	33	32	32	28	19	11	15	11	11	11	54	
42		NNW	NNW	NW	NW	NNW	NNE	NE	C	NW	C	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	S	S	S	S	S	S	2300	
43		9	7	11	6	6	4	4	0	4	0	7	9	11	9	13	15	19	17	13	15	19	19	22	22		
44		S	S	S	S	S	S	S	S	S	S	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	
45		19	22	24	22	24	26	24	20	28	22	26	22	28	24	24	24	22	26	20	17	19	20	19	19	37	
46		W	WNW	WNW	WNW	NW	W	W	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	NE	NNW	NW	WNW		
47		28	26	33	30	22	20	22	26	33	37	43	48	50	50	43	35	26	17	11	15	11	7	6	63		
48		W	W	C	NE	C	C	C	S	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SSE	SE	SSE	SSE	SSE	SSE	2200	
49		9	7	0	4	0	0	0	4	9	11	19	17	13	19	22	19	24	24	22	28	24	24	24	26	35	
50		S	S	S	S	S	SW	W	NW	NNW	N	NNW	NNW	NNW	NNW	SSE	W	WSW	SW	WSW	WSW	W	WSW	WSW	NNW		
51		24	19	17	11	13	9	9	15	15	15	13	19	33	43	30	15	6	13	11	15	19	19	17	20	57	
52		W	W	W	W	W	W	W	W	SSW	S	SSE	S	S	S	S	SE	ESE	SE	SE	SSE	SE	SE	SE	SE	19	
53		17	17	15	15	15	15	7	7	7	7	9	13	17	19	19	19	19	15	17	19	15	19	20	19		
54		SE	SE	SE	SSE	SE	SSE	SE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	W	NW	
55		15	19	20	20	24	19	19	15	22	19	19	22	20	19	19	20	15	13	9	9	11	7	4	7	33	
56		NNW	NNW	NW	WNW	WNW	WNW	WNW	WSW	SW	WSW	WSW	SSW	S	SSW	S	SSW	SW	W	W	W	WSW	W	W	W	500	
57		20	7	13	11	11	15	15	15	7	11	17	20	17	19	17	15	13	7	11	13	13	15	15	13		
58		SW	SW	S	SSE	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SE	SSE	S	S	S	S	S	S	S	
59		6	11	6	6	9	19	17	17	19	15	13	13	17	20	19	20	19	20	19	20	26	33	35	30	50	

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	NNW	NNW	SW	S	N	ESE	E	SSE	WNW	W	E	N	S	S	NNW	NNW	S	NW	NNW	S	NW	N	S	S	NW	SSE	NNW	W	S	W	S
AVG	26	13	13	15	14	16	10	9	20	17	14	19	13	15	11	17	14	20	22	20	32	25	11	23	29	15	18	15	16	14	18
dir2																															

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