

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada

Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: November/novembre 1999

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	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	12.9	-4.1	4.4	13.6	0.0	0.0	95	47	0.8	0.4	1.2	0
2	6.5	-7.5	-0.5	18.5	0.0	0.0	89	47	0.0	0.0	0.0	0
3	10.1	-8.1	1.0	17.0	0.0	0.0	83	35	0.0	0.0	0.0	0
4	13.2	-3.9	4.7	13.3	0.0	0.0	67	37	0.0	0.0	0.0	0
5	5.8	-2.5	1.7	16.3	0.0	0.0	76	26	0.0	0.0	0.0	0
6	7.0	-3.9	1.6	16.4	0.0	0.0	71	37	0.0	0.0	0.0	0
7	16.2	-0.6	7.8	10.2	2.8	0.0	75	39	0.0	0.0	0.0	0
8	17.5	-0.4	8.6	9.4	3.6	0.0	80	39	0.0	0.0	0.0	0
9	6.4	-3.9	1.3	16.7	0.0	0.0	96	66	0.0	0.0	0.0	0
10	4.5	-0.1	2.2	15.8	0.0	0.0	93	70	0.0	0.0	0.0	0
11	12.2	-3.0	4.6	13.4	0.0	0.0	93	55	TR	0.0	TR	0
12	11.8	-5.2	3.3	14.7	0.0	0.0	99	55	0.0	0.0	0.0	0
13	16.3	1.4	8.9	9.1	3.9	0.0	72	43	0.0	0.0	0.0	0
14	5.5	-1.4	2.1	15.9	0.0	0.0	78	58	0.0	0.0	0.0	0
15	9.4	-7.0	1.2	16.8	0.0	0.0	92	48	0.0	0.0	0.0	0
16	3.8	-7.0	-1.6	19.6	0.0	0.0	98	73	0.0	0.0	0.0	0
17	5.5	-2.3	1.6	16.4	0.0	0.0	89	55	0.0	0.0	0.0	0
18	-1.5	-6.3	-3.9	21.9	0.0	0.0	79	63	0.0	0.0	0.0	0
19	2.9	-11.9	-4.5	22.5	0.0	0.0	90	58	0.0	0.0	0.0	0
20	5.0	-6.3	-0.7	18.7	0.0	0.0	88	64	0.0	0.0	0.0	0
21	7.4	-2.9	2.3	15.7	0.0	0.0	94	61	0.0	0.0	0.0	0
22	5.5	-6.2	-0.4	18.4	0.0	0.0	90	47	0.0	0.0	0.0	0
23	5.2	-8.6	-1.7	19.7	0.0	0.0	93	53	0.0	0.0	0.0	0
24	3.9	-10.0	-3.1	21.1	0.0	0.0	98	53	0.0	0.0	0.0	0
25	3.8	-9.1	-2.7	20.7	0.0	0.0	99	62	1.0	1.4	2.4	0
26	0.5	-3.2	-1.4	19.4	0.0	0.0	99	90	0.0	2.6	2.6	1
27	-1.7	-7.7	-4.7	22.7	0.0	0.0	95	81	0.0	0.0	0.0	4
28	-5.0	-11.7	-8.4	26.4	0.0	0.0	91	77	0.0	0.0	0.0	4
29	-3.2	-9.0	-6.1	24.1	0.0	0.0	93	70	0.0	0.0	0.0	4
30	4.1	-3.7	0.2	17.8	0.0	0.0	87	72	0.0	0.0	0.0	0
TOTAL				522.2	10.3	0.0			1.8	4.4	6.2	totale
MEAN	6.4	-5.2	0.6				88	56				moyenne
NORMAL	-0.4	-9.2	-4.7	683.3	4.3	0.0			5.3	19.0	21.2	normale

- NOTE/AVIS:
1. Climatological Day / Journee Climatologique: 00 01 LST - 00 00 LST
 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: November/novembre 1999

DRY BULB TEMPERATURES / TEMPERATURES DU THERMOMETRE SEC

HOOR / 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	128	115	128	77	69	64	52	34	20	8	23	36	31	32	36	26	21	19	15	6	11	-2	-34	-36
2	-39	-43	-51	-54	-69	-60	-60	-64	-50	-35	-9	20	36	43	55	65	52	26	5	-7	-16	-20	-24	-31
3	-39	-40	-48	-52	-62	-74	-70	-73	-65	-18	-11	25	54	72	90	100	91	71	29	8	0	5	-10	-12
4	-34	-22	-36	-18	-17	-20	-1	6	20	33	38	44	47	85	93	108	126	122	98	85	55	48	36	55
5	46	24	9	5	-5	-13	-19	-20	-18	0	20	34	43	50	53	53	44	-5	-4	-13	-9	-18	-10	-19
6	-14	-17	-18	-34	-20	-16	-7	-7	-3	6	16	36	51	61	66	64	55	29	10	-5	4	13	12	11
7	9	1	-2	6	2	2	4	13	15	33	59	93	119	137	150	159	157	111	106	102	79	47	41	29
8	24	15	30	24	25	25	12	32	31	38	59	100	121	145	170	168	155	129	120	111	45	47	48	1
9	-2	-18	-21	-36	-24	-30	-19	-15	-21	-2	23	36	48	62	62	51	51	35	20	12	-1	-3	-1	-2
10	1	1	2	2	-1	0	2	5	6	10	16	24	33	39	41	41	45	42	41	38	40	40	39	36
11	37	36	35	36	34	33	32	32	32	36	46	66	83	99	111	122	101	74	76	52	50	11	-5	-23
12	-16	-21	-6	-20	-45	-36	-36	-23	-9	17	30	48	65	90	102	105	104	100	95	91	92	88	86	93
13	111	121	132	142	153	156	118	80	70	73	85	79	78	90	84	79	63	46	37	37	22	19	39	40
14	39	36	36	31	27	26	23	20	18	24	21	27	36	41	48	50	41	17	10	-4	-1	18	23	28
15	34	36	35	25	17	1	-12	-37	-54	-14	23	46	57	68	79	93	81	30	-2	-20	-19	-62	-55	-54
16	-66	-11	4	2	-9	-39	-59	-41	-26	-16	-6	3	16	27	32	37	24	13	6	2	11	7	2	-2
17	-17	-21	-20	-10	9	1	-1	-8	-13	-3	11	26	37	43	53	46	23	11	5	5	4	0	-5	-17
18	-16	-20	-24	-24	-27	-32	-36	-40	-45	-46	-43	-38	-33	-28	-28	-29	-40	-39	-39	-41	-32	-34	-37	-43
19	-61	-83	-92	-113	-118	-95	-74	-66	-47	-35	-19	-10	7	15	26	25	-6	-22	-19	-14	-34	-39	-44	-43
20	-43	-46	-42	-33	-26	-20	-15	-12	-8	2	14	26	41	44	43	40	38	33	29	28	25	23	21	20
21	18	14	12	7	-1	-5	-16	-21	-19	-5	14	33	53	63	70	72	59	16	44	48	44	38	33	26
22	20	10	-7	-51	-38	-16	-9	-2	-10	-10	-1	14	38	48	52	50	35	20	9	-15	-23	-20	-39	-27
23	-39	-40	-47	-63	-71	-54	-58	-58	-80	-52	-30	-4	14	32	48	51	19	-26	-36	-35	-50	-81	-79	-56
24	-75	-85	-70	-64	-86	-85	-96	-99	-96	-68	-48	-31	-12	13	28	38	23	-4	-11	-10	-20	-28	-26	-20
25	-48	-69	-55	-79	-84	-85	-70	-65	-51	-32	-13	6	14	28	36	37	24	12	4	5	7	4	3	4
26	4	2	1	-1	-2	-3	-3	-1	3	2	3	3	4	3	3	2	3	-1	-8	-13	-19	-24	-26	-32
27	-31	-32	-33	-37	-39	-39	-39	-39	-39	-46	-48	-44	-40	-37	-30	-30	-35	-61	-31	-26	-24	-32	-47	-68
28	-65	-72	-73	-84	-89	-99	-100	-102	-80	-71	-67	-70	-67	-64	-60	-58	-58	-61	-65	-71	-61	-64	-65	-69
29	-65	-70	-71	-75	-75	-79	-78	-80	-81	-84	-85	-85	-86	-81	-65	-62	-62	-61	-56	-57	-43	-39	-35	-35
30	-36	-35	-26	-20	-16	-15	-1	7	5	8	14	23	20	24	30	32	34	30	28	34	37	36	38	38

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

WINNIPEG INTL A (YWG) MONTH/MOIS: November/novembre 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																									
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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/grêle : IP = Ice Pellets/gresil

WINNIPEG INTL A (YWG) MONTH/MOIS: November/novembre 1999

		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	W	W	W	W	SW	WSW	W	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	NW	W	W	NW			
1	26	17	32	32	28	32	28	43	48	59	87	76	69	63	50	44	48	41	33	28	24	22	13	15	113	1100	
2	W	W	W	W	W	W	W	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SE	SSE	SSE	S	S	S	S			
2	19	19	19	15	13	15	13	13	11	11	11	15	13	17	15	15	9	7	9	13	13	11	13	13			
3	S	S	S	S	S	S	S	SSW	S	WSW	SSE	W	SSW	SW	SSW	W	W	WSW	S	S	S	S	S	S			
3	7	15	9	13	7	9	11	4	11	6	7	6	9	9	13	4	9	4	7	6	6	13	11	9			
4	S	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	W	WNW	WNW	WNW	WNW	WNW	WNW			
4	11	7	11	15	9	17	26	26	28	32	35	32	28	28	28	24	17	32	28	39	39	32	26	41	69	2000	
5	WNW	W	W	W	W	W	W	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	W	WNW			
5	32	22	24	22	26	28	26	24	30	28	35	35	46	35	41	32	24	13	11	13	13	13	15	15	54	1300	
6	W	WSW	W	W	C	W	ENE	SSE	S	SE	E	E	E	E	E	E	E	E	E	E	E	ESE	ESE	SE			
6	15	9	11	7	9	0	4	4	4	6	6	9	11	11	15	15	11	13	11	11	15	19	17	19			
7	SE	SE	SSE	SSE	SSE	SE	SSE	S	S	S	S	S	S	S	S	SSW	S	SSE	SSE	SSE	S	S	S	SSE	S		
7	19	15	15	19	17	19	20	19	17	24	24	22	19	19	22	22	13	9	7	7	9	9	9	9	37	1100	
8	S	S	S	S	S	S	SSE	S	S	S	S	S	S	S	S	SSW	SW	SW	SW	SW	W	W	W	NW			
8	9	15	9	15	13	15	7	19	15	15	20	17	13	17	13	15	13	11	15	11	9	17	13	13			
9	NW	NW	NW	NNW	NW	NW	NW	NW	NW	NNW	N	N	N	N	N	N	N	N	NNE	NNE	IN	N	NNE	NNE	N		
9	11	15	9	13	13	11	17	11	9	13	15	22	17	19	22	26	19	20	17	19	19	20	20	15	33	1500	
10	N	N	NNE	NNE	NNE	NNE	NE	NE	NE	E	ESE	ESE	SE	SE	SE	SE	SE	S	S	SSE	SSE	S	S	S			
10	19	17	24	20	17	15	13	15	13	15	17	15	17	17	4	11	19	15	11	13	17	20	19	15	35	0	
11	S	S	S	S	S	S	S	S	S	S	S	S	SSW	S	SSW	SSW	S	S	SSW	SW	W	WNW	NW	NW	S		
11	32	22	19	26	32	35	30	41	41	39	43	35	35	32	35	26	17	17	19	15	19	15	13	13	59	900	
12	NNW	NNW	W	W	WSW	C	C	E	SSE	SSE	S	SSE	S	SSE	SSE	S	S	S	S	S	S	S	S	SSW	S		
12	11	7	11	11	6	0	0	0	9	7	15	17	20	22	26	24	22	28	32	28	32	22	24	20	46	1800	
13	SSW	SW	SW	SW	WSW	NW	WNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW			
13	24	24	26	22	26	26	35	33	28	32	32	41	37	39	37	43	35	28	26	26	22	22	41	26	57	1100	
14	N	N	N	N	N	N	NNE	N	N	NW	NW	NW	NW	NNW	SW	SW	SSW	S	S	SSE	S	S	S	S	NNW		
14	28	19	20	17	11	11	11	17	7	11	11	7	9	6	7	7	7	11	11	7	13	13	17	17	44	100	
15	S	S	S	S	S	S	SW	SE	NNE	C	N	NNE	NE	N	N	N	N	N	NNE	NNE	N	NNW	NNW	NNW	S		
15	19	19	19	22	20	7	4	4	6	0	11	11	9	9	9	13	13	9	9	13	4	13	11	9	32	300	
16	N	NNE	NE	N	NNE	NNE	N	ENE	ENE	E	E	ESE	SE	NE	E	SE	ESE	ESE	ESE	SE	SE	SSE	SE	SE			
16	11	9	11	9	15	7	6	9	11	7	9	13	15	11	9	13	11	9	11	11	13	17	13	15			
17	SE	SSE	SSE	SSE	S	S	S	S	S	S	SSW	S	W	NNE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	S		
17	13	13	13	17	26	24	26	20	17	20	15	9	6	7	19	22	24	20	20	19	24	22	22	20	37	500	
18	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	NNW	NE			
18	28	26	20	24	33	28	24	30	26	26	26	24	26	24	26	22	20	13	13	15	13	15	19	15	37	400	
19	NW	NNW	NNW	NW	NW	C	W	W	WNW	W	WNW	NW	W	NW	WNW	W	WNW	C	WSW	WSW	SSW	SSW	S	S			
19	19	17	17	15	7	0	4	6	9	9	15	13	15	11	15	17	9	0	11	7	9	11	11	13			
20	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S	S	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S		
20	11	13	13	13	17	17	20	17	20	19	26	20	33	26	32	32	28	17	17	19	22	24	28	26	50	1400	
21	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	SSW	SW	W	WNW	WNW	WNW	WNW	WNW	NW	NW	SE			
21	30	22	20	22	17	17	13	11	13	13	19	22	22	19	17	11	7	15	13	15	15	15	17	19	33	100	
22	NW	NW	WNW	W	W	WSW	WSW	W	W	W	W	WSW	W	SW	SW	SW	SSW	SW	SSW	SW	SSW	SW	SSW	SSW			
22	19	17	15	15	9	9	9	11	11	13	13	17	15	17	19	15	9	7	9	11	13	11	9	13			
23	S	S	S	S	S	S	S	S	S	S	S	S	WSW	SSE	SW	SW	NW	N	N	NNW	W	C	W	W			
23	15	15	7	9	13	15	11	11	6	7	11	7	4	6	4	6	7	6	4	4	4	4	0	4	4		
24	W	WSW	W	WSW	WSW	SSW	SW	S	S	WSW	SW	WSW	WSW	SW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	W			
24	6	4	9	9	9	6	7	9	9	13	11	9	9	13	7	13	9	9	11	15	13	15	9				
25	WSW	SSE	SSE	S	SSE	S	SSE	SE	SSE	SSE	SSE	SSE	SE	SE	SSE	SE	SSE	SE	SSE	S	S	S	S	SSE			
25	7	6	7	11	11	15	15	13	15	17	20	24	19	20	26	20	17	20	11	22	17	19	17	11	37	1700	
26	W	W	WNW	W	W	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	WNW	NW	NW	NW	NW	NW	NW	NW			
26	11	15	13	11	13	13	15	19	15	17	19	15	20	19	19	11	17	22	26	26	20	24	28	19	33	1800	
27	WNW	NW	NW	WNW	WNW	WNW	WNW	W	W	W	W	W	W	SSW	S	S	SW	SW	WSW	W	W	W	W	NW			
27	17	20	20	20	15	15	9	19	19	19	15	19	13	9	11	11	11	7	7	15	15	17	17	11	32	300	
28	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	NNW	NNW	NNW	NNW	NNW	NW	NW	NW			
28	15	15	13	13	13	13	13	11	17	19	22	26	26	15	20	19	17	13	20	17	17	15	11	9	32	1100	
29	N	NW	NW	NW	W	SW	WSW	SSW	SW	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S			
29	7	13	11	4	6	6	7	7	7	13	17	19	20	22	19	24	28	24	35	37	32	37	52	0			
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			
30	37	33	30	26	24	33	32	35	32	37	35	37	32	37	35	30	32	35	41	46	46	43	39	26	61	2000	

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	W	S	S	WNW	E	S	S	N	SE	S	S	NW	N	N	SE	S	NE	NW	SSE	SSE	W	S	WSW	SSE	NW	W	W	S	S	
avgV	40	13	9	25	25	10	16	14	16	16	27	16	30	12	11	11	18	22	11	21	17	13	8	10	16	18	15	16	18	35	
dir2				W						NNE					S				W	S											

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