

MONTHLY METEOROLOGICAL SUMMARY

SOMMAIRE METEOROLOGIQUE MENSUEL

Environment Canada

Environnement Canada

WINNIPEG INTL A (YWG) MONTH/MOIS: September/septembre 2002

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	base 18	base 5	base 18	%	%	mm	cm	mm	cm
1	25.8	16.9	21.4	0.0	16.4	3.4	99	37	0.5	0.0	0.5	0
2	21.6	14.6	18.1	0.0	13.1	0.1	96	51	8.5	0.0	8.5	0
3	21.4	10.7	16.1	1.9	11.1	0.0	88	52	0.0	0.0	0.0	0
4	24.0	11.4	17.7	0.3	12.7	0.0	91	63	0.0	0.0	0.0	0
5	26.8	13.3	20.1	0.0	15.1	2.1	100	68	0.0	0.0	0.0	0
6	23.5	15.7	19.6	0.0	14.6	1.6	99	84	TR	0.0	TR	0
7	21.9	14.2	18.1	0.0	13.1	0.1	99	87	2.5	0.0	2.5	0
8	22.1	13.9	18.0	0.0	13.0	0.0	100	79	6.5	0.0	6.5	0
9	18.4	9.6	14.0	4.0	9.0	0.0	100	80	0.0	0.0	0.0	0
10	24.6	6.3	15.5	2.5	10.5	0.0	100	38	0.0	0.0	0.0	0
11	26.5	8.0	17.3	0.7	12.3	0.0	95	36	0.0	0.0	0.0	0
12	23.1	8.3	15.7	2.3	10.7	0.0	93	38	0.0	0.0	0.0	0
13	27.5	7.7	17.6	0.4	12.6	0.0	84	40	0.0	0.0	0.0	0
14	18.3	6.0	12.2	5.8	7.2	0.0	95	35	0.0	0.0	0.0	0
15	23.5	6.7	15.1	2.9	10.1	0.0	82	39	0.0	0.0	0.0	0
16	25.2	6.0	15.6	2.4	10.6	0.0	100	43	0.0	0.0	0.0	0
17	29.6	17.5	23.6	0.0	18.6	5.6	75	37	0.0	0.0	0.0	0
18	22.3	13.2	17.8	0.2	12.8	0.0	99	60	15.5	0.0	15.5	0
19	20.7	12.3	16.5	1.5	11.5	0.0	96	40	0.5	0.0	0.5	0
20	18.6	7.5	13.1	4.9	8.1	0.0	76	37	0.0	0.0	0.0	0
21	14.1	5.2	9.7	8.3	4.7	0.0	95	58	6.0	0.0	6.0	0
22	12.4	2.6	7.5	10.5	2.5	0.0	95	51	1.0	0.0	1.0	0
23	9.7	1.3	5.5	12.5	0.5	0.0	96	55	0.0	0.0	0.0	0
24	11.7	0.9	6.3	11.7	1.3	0.0	99	61	1.5	0.0	1.5	0
25	11.0	-2.1	4.5	13.5	0.0	0.0	96	47	0.0	0.0	0.0	0
26	12.0	-1.3	5.4	12.6	0.4	0.0	90	37	0.0	0.0	0.0	0
27	9.9	-2.6	3.7	14.3	0.0	0.0	82	35	0.0	0.0	0.0	0
28	11.0	-7.0	2.0	16.0	0.0	0.0	100	37	0.0	0.0	0.0	0
29	15.6	0.7	8.2	9.8	3.2	0.0	100	68	0.0	0.0	0.0	0
30	23.8	9.5	16.7	1.3	11.7	0.0	99	47	0.0	0.0	0.0	0
TOTAL				140.3	267.4	12.9			42.5	0.0	42.5	totale
MEAN	19.9	7.6	13.8				94	51				moyenne
NORMAL	18.6	6.0	12.3	178.8	221.9	7.9			51.9	0.4	52.3	normale

1. Climatological Day / Journee Climatologique: 00 01 CST - 00 00 CST

NOTE/AVIS:

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: September/septembre 2002

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	187	183	179	180	178	175	171	175	180	201	218	223	234	240	252	251	249	236	227	201	203	203	204	209
2	207	194	187	195	189	184	175	175	180	169	172	187	198	192	212	203	197	193	187	183	173	181	173	153
3	146	139	131	125	121	114	110	122	146	166	181	189	195	206	207	212	210	205	192	164	153	135	139	135
4	128	119	119	116	119	116	116	130	146	163	186	212	226	225	198	207	203	224	213	204	196	188	189	190
5	183	172	149	150	147	139	134	149	168	199	219	230	244	248	264	248	247	237	220	207	195	189	177	171
6	166	170	164	171	173	170	175	183	194	195	202	213	222	223	227	219	232	219	200	177	180	174	172	162
7	157	151	150	149	145	145	145	154	154	156	178	186	202	208	211	190	181	182	179	171	168	163	157	153
8	151	151	153	152	149	149	146	146	149	157	164	173	180	190	207	209	195	180	175	172	167	164	163	152
9	140	152	139	119	101	102	111	128	135	148	156	157	166	174	179	181	181	181	177	162	147	146	125	133
10	133	129	127	114	89	80	84	99	141	156	182	198	222	233	243	242	245	231	204	162	145	130	120	97
11	100	106	116	100	96	90	90	98	139	171	201	226	239	251	257	262	262	254	233	212	204	187	183	171
12	179	172	163	154	132	134	132	142	167	187	200	214	218	223	223	222	215	206	182	138	121	107	114	91
13	109	108	102	99	95	96	99	110	133	165	188	212	231	245	258	261	271	263	254	239	223	193	162	135
14	117	101	119	108	78	65	64	72	105	131	152	159	163	168	174	174	179	171	150	124	100	86	96	89
15	92	84	75	86	86	91	80	75	109	143	163	188	203	215	219	228	224	233	223	211	201	193	181	168
16	151	139	106	93	72	76	69	85	144	169	200	219	232	237	247	249	250	231	213	189	188	203	190	187
17	183	184	188	194	187	186	181	181	187	203	216	236	247	279	282	293	293	287	267	237	232	225	213	203
18	203	195	193	186	181	159	157	159	172	194	210	209	219	216	182	168	162	158	149	149	147	140	137	134
19	134	131	131	129	131	128	128	126	129	142	158	167	184	191	198	204	205	201	173	146	139	136	135	133
20	131	119	116	121	121	121	114	120	135	161	177	172	174	170	173	177	168	157	143	122	112	104	94	82
21	76	69	66	61	65	62	64	64	90	101	114	124	125	133	101	98	97	96	98	76	73	73	69	61
22	58	57	45	37	36	29	30	32	45	68	78	84	97	109	108	111	109	107	88	62	59	37	39	44
23	47	47	37	34	34	35	24	32	49	59	76	81	78	86	82	69	82	82	75	57	46	42	41	36
24	34	28	26	23	23	18	29	34	50	72	102	99	113	104	103	101	95	90	72	65	58	50	47	29
25	10	3	2	-4	-9	-20	-8	-6	11	42	66	86	97	104	90	100	101	99	83	58	21	19	5	6
26	20	-4	8	22	13	24	6	11	41	68	92	102	107	114	97	115	111	105	68	37	43	37	37	8
27	23	4	13	34	37	34	15	4	26	55	67	76	84	87	92	95	91	78	52	6	2	-10	-13	-7
28	8	-18	-28	-38	-29	-40	-54	-68	-3	48	68	89	89	97	99	107	102	97	60	52	27	15	13	16
29	14	22	15	17	24	28	30	38	47	70	82	95	108	132	140	153	151	149	145	142	141	137	135	133
30	132	130	129	129	131	133	128	126	130	136	144	155	175	193	219	236	218	193	183	172	142	117	98	100

NOTE/AVIS: 1. Unit = 0.1 C

WINNIPEG INTL A (YWG) MONTH/MOIS: September/Septembre 2002

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	RW																								
2	RW		TRW	TRW																					
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6									L	L															
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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 INTL A (YWG) MONTH/MOIS: September/septembre 2002

		WINDS (km/h)															DES VENTS (km/h)															Pk	Hour	
Hour	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	Gust	Heur
1	17	SSW	S	SW	S	SW	W	WSW	W	NW	WNW	WNW	W	WSW	S	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	0	
2	17	S	SSE	S	SSW	S	SW	WSW	WSW	WNW	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	1500	
3	17	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	1000		
4	17	E	E	E	E	ESE	E	E	E	E	ESE	E	ESE	E	ESE	NNE	E	ESE	ESE	ESE	ESE	E	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	1700		
5	17	SE	E	NE	ENE	E	NE	NE	N	NNE	NE	NE	NNE	NNE	ENE	NNE	NNE	N	NNE	NNE	N	NNE	NNE	N	NNE	NE	NNE	N	N	N	N	400		
6	17	N	N	NE	N	N	NNE	NE	N	NNW	NNE	N	NE	ESE	C	NW	NNW	N	N	N	N	NNW	NW	NW	N	N	N	N	N	N	N	400		
7	17	NW	WNW	W	WNW	SW	WSW	WNW	NNW	W	C	WSW	NW	NNW	NNW	C	NW	WSW	NW	NNW	NNW	C	NW	WSW	NW	W	W	W	W	W	W	400		
8	17	W	NW	NNW	WNW	W	CALW	W	W	SSW	SW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	400		
9	17	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	400		
10	17	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	400		
11	17	C	SW	SSW	SW	SSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	2300		
12	17	SSW	SSW	WSW	W	WNW	WNW	NW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	2300	
13	17	S	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	S	S	S	S	S	1200	
14	17	11	6	9	11	13	15	15	20	22	22	31	33	41	31	33	31	39	39	41	33	33	33	43	46	30	67	2300						
15	17	NNW	NNW	N	N	NNW	W	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	1300		
16	17	SSW	SSW	SW	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	1500	
17	17	SSW	WSW	WNW	NNW	C	NNW	ENE	SE	SSE	SE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	SE	ESE	2200		
18	17	SE	SSE	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	S	S	S	S	900	
19	17	28	30	28	22	19	11	15	15	0	4	6	7	4	9	17	20	22	15	24	11	17	15	17	15	17	24	37	100					
20	17	NNW	NNW	NNW	NW	NW	NW	NNW	N	NW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	100	
21	17	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	S	S	S	S	S	S	100	
22	17	22	20	28	30	31	28	26	31	22	30	35	33	31	28	28	48	41	31	24	22	24	28	24	19	57	1600							
23	17	W	WSW	WSW	W	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	1400	
24	17	W	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	1100	
25	17	NW	WNW	NNW	NW	NNW	NNW	C	NW	N	N	NW	W	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	1400	
26	17	7	11	11	11	15	15	4	0	15	19	19	13	17	13	15	19	9	9	7	4	13	15	17	15	32	1400							
27	17	SW	SW	SSW	SSW	SW	S	SSW	SSW	S	SSW	S	SSW	S	SSW	SSW	S	SSW	SSW	S	SSW	SSW	S	SSW	SSW	S	SSW	SSW	S	SSW	SSW	2100		
28	17	7	9	11	11	13	4	11	9	9	9	13	22	31	19	24	28	15	11	9	11	9	6	7	13	48	1400							
29	17	WSW	W	WSW	SW	SSE	S	C	SW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	WNW	NW	1400		
30	17	13	11	15	11	6	9	7	4	0	7	17	19	15	15	17	11	11	9	9	6	6	4	9	9	9	9	9	9	9	9	9	9	
31	17	S	S	S	S	SW	WNW	N	N	NNE	N	N	NNW	N	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	NNW	NW	100		
32	17	C	NNE	NNE	NE	NNE	N	C	NNWC	C	C	S	SE	SSW	SSW	WSW	SE	S	S	S	SSE	S	S	S	S	S	S	S	S	S	S	S	7	
33	17	0	6	6	6	4	4	0	7	0	0	0	7	4	4	6	7	9	11	11	11	13	13	15	15	15	15	15	15	15	15	15	15	
34	17	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	S	S	S	S	S	S	SSW	
35	17	13	19	17	17	22	19	22	24	26	26	31	33	41	28	35	33	35	31	26	24	26	31	24	24	57	1500							
36	17	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	S	S	S	S	S	S	100	

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	SSE	W	W	E	NNE	N	N	NW	SSW	W	SSW	NNW	S	NW	SSW	SE	S	S	NW	S	W	W	NW	SSW	W	NW	N	S	S	S	
avgV	14	29	19	23	13	14	12	8	8	7	11	17	27	18	26	12	32	16	19	29	23	16	12	20	13	10	14	7	26	17	
dir2	NNE W W																														

NOTE/AVIS: * indicates/indique < 24 hrs and/et >=18 hrs

Pdir=Prevailing direction/Direction dominante

dir2=2nd Pdir/2ieme Pdir