

MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS: **SEPTEMBER / SEPTEMBRE** 19 91

AT/A: **WINNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WINNIPEG**

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION ALTITUDE: 239.6		METRES (ASL) METRES (NMM)		STANDARD TIME USED: CENTRAL									
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL. HUMIDITY HUMIDITÉ REL.		PRECIPITATION PRÉCIPITATIONS			WIND VENT		BRIGHT SUNSHINE INSOLATION EFFECTIVE HOURS HEURES			
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE RÉFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE	THUNDERSTORM ORAGE	RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. TOTALE	SNOW ON GROUND NEIGE AU SOL		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE	MAX 2 MIN MEAN SPEED & DIRECTION VITESSE MOYENNE MAX. SUR 2 MIN & DIRECTION
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	BASE 18.0°C	%	%		mm	cm	mm	cm	km/h		km/h	
1	28.4	13.3	20.9		15.9	2.9	79	39					0	36.9	S	SSE46	11.8
2	27.1	14.7	20.9		15.9	2.9	78	42		TR.		TR.	0	29.2	S	S 50*	3.3
3	23.3	8.1	15.7	2.3	10.7		85	31					0	23.6	W	WNW37*	11.2
4	18.0	7.2	12.6	5.4	7.6		81	35		TR.		TR.	0	21.1	NW	WNW37*	4.9
5	17.5	5.3	11.4	6.6	6.4		82	34					0	14.3	NNW	NNW28	9.2
6	26.5	4.5	15.5	2.5	10.5		73	32					0	21.8	S	S 35	11.9
7	29.7	10.0	19.9		14.9	1.9	83	35		TR.		TR.	0	22.0	E	SE 43	10.8
8	20.6	18.2	19.4		14.4	1.4	96	78		3.2		3.2	0	21.1	ESE	ESE35	0.0
9	18.4	11.1	14.8	3.2	9.8		96	67		4.4		4.4	0	30.6	NW	NW 46*	0.1
10	17.6	5.6	11.6	6.4	6.6		86	43		0.2		0.2	0	11.4	N	NW 26	9.3
11	19.5	11.7	15.6	2.4	10.6		88	61		0.2		0.2	0	20.6	SSE	S 33	1.8
12	21.7	11.7	16.7	1.3	11.7		98	57		2.0		2.0	0	16.2	W	W 28*	4.0
13	25.6	8.9	17.3	0.7	12.3		93	36					0	16.7	SE	SE 31	9.6
14	19.8	10.3	15.1	2.9	10.1		95	64					0	18.5	SE	ESE30*	2.3
15	19.5	9.3	14.4	3.6	9.4		98	72					0	18.8	NW	N 31	1.2
16	15.6	6.0	10.8	7.2	5.8		86	48					0	27.2	NNW	WNW41*	2.2
17	8.4	2.2	5.3	12.7	0.3		95	75		24.4		24.4	0	24.7	WNW	N 59	0.0
18	8.1	1.2	4.7	13.3			88	61		0.4	TR.	0.4	0	31.5	NNW	N 52	5.2
19	10.6	1.2	5.9	12.1	0.9		90	43					0	17.9	W	W 24*	6.2
20	18.7	1.8	10.3	7.7	5.3		81	42					0	38.8	S	SSE59	9.9
21	19.1	8.0	13.6	4.4	8.6		97	49		9.8		9.8	0	26.5	S	N 43*	9.0
22	10.8	3.1	7.0	11.0	2.0		97	66		29.4		29.4	0	42.0	NW	N 56*	1.2
23	14.4	0.6	7.5	10.5	2.5		91	41					0	10.6	W	W 19	8.0
24	17.2	1.5	9.4	8.6	4.4		89	45		3.4		3.4	0	24.4	SW	SW 37*	5.8
25	12.4	0.5	6.5	11.5	1.5		85	45		TR.		TR.	0	44.5	NNW	NW 63*	3.0
26	10.6	-3.5	3.6	14.4			89	38					0	15.8	NW	NW 28	9.4
27	13.1	0.6	6.9	11.1	1.9		90	48		TR.		TR.	0	11.9	S	NNW28	8.0
28	13.6	-2.1	5.8	12.2	0.8		95	47					0	16.9	E	ESE33	9.5
29	19.3	4.6	12.0	6.0	7.0		95	48		12.0		12.0	0	34.8	SE	S 56	6.2
30	14.2	4.3	9.3	8.7	4.3		89	38					0	26.6	W	WNW48*	8.7
MEAN MOYENNE	18.0	6.0	12.0	TOTAL 188.7	TOTAL 212.1	TOTAL 9.1	89	49	TOT 0	TOTAL 89.4	TOTAL TR.	TOTAL 89.4		23.9	PREVAILING S	MAXIMALE NW 63*	TOTAL 183.7
NORMAL NORMALE	18.4	6.3	12.4	178.1	223.8	8.7			3	53.0	0.2	53.3		18.5	S		184.6

UDC 581 506.1 () Note/Avie 1. Climatological Day/Journée climatologique 00 01 C S.T. - 00 00 C S.T.
 2. Normal/Normale 1951-1980
 3. TR = Trace
 4. M = Missing/Manquant
 5. No entry/Pas de valeur = No occurrence/Pas d'événement
 6. * Indicates first of more than one prevailing direction and/or maximum 2 minute mean speed (see page 4)/Indique la première de plusieurs des directions dominantes et/ou le vitesse moyenne maximale sur 2 minutes (voir page 4).
 7. C = Calm/Calm \$3.00 annual (Jan. to Dec.) \$29.50 /Prix: numéro individuel \$3.00, annuel \$29.50 (janv. à déc.)
 8. Price: single issue



Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	168	165	158	152	149	142	136	138	149	166	186	213	231	257	268	271	278	282	275	257	244	242	235	228
2	224	220	214	209	206	204	204	206	222	229	242	242	247	250	267	241	219	231	215	199	183	171	172	160
3	149	145	128	104	110	90	86	109	137	163	174	186	201	210	218	226	229	221	211	193	171	166	155	159
4	142	107	106	94	101	95	79	98	131	153	169	166	169	166	164	175	167	157	150	143	126	120	116	113
5	113	114	110	107	92	86	63	84	100	120	132	140	154	152	166	149	160	147	142	114	97	84	79	83
6	77	66	61	51	56	60	60	73	108	157	178	199	215	236	255	261	259	260	255	235	212	200	178	180
7	172	159	146	142	110	113	127	138	162	193	226	246	259	275	283	294	292	284	266	255	248	232	220	210
8	204	201	195	189	187	184	184	184	190	199	204	203	187	185	189	190	193	193	190	190	188	188	188	185
9	184	180	179	175	175	171	170	166	168	149	140	145	148	153	150	147	152	146	139	133	129	122	120	116
10	111	110	96	84	66	64	57	81	109	124	138	141	149	166	161	172	166	174	154	152	139	140	134	128
11	119	120	121	121	119	118	117	118	127	138	160	179	186	177	182	189	186	183	178	172	170	169	169	166
12	161	160	163	164	164	165	149	141	142	148	151	157	176	188	195	193	202	204	202	164	150	136	118	117
13	134	125	120	120	116	103	96	107	129	171	205	227	236	253	256	255	248	244	231	215	210	201	198	188
14	183	183	176	173	172	166	164	166	166	174	170	169	179	179	177	195	182	178	168	140	111	111	117	118
15	106	112	104	102	114	128	119	124	138	170	180	190	183	179	174	182	185	170	160	153	148	142	132	128
16	125	122	120	115	108	108	105	105	112	120	129	133	142	146	147	148	135	135	126	110	97	69	71	78
17	76	66	75	40	52	65	63	68	79	84	83	79	57	53	54	52	49	40	48	51	38	36	27	23
18	23	27	28	29	29	19	16	18	30	46	35	57	64	54	48	62	65	61	46	31	19	22	14	37
19	23	21	22	27	26	29	29	31	33	44	52	68	86	90	91	98	99	105	92	75	63	56	44	37
20	37	35	31	26	22	21	19	24	42	67	97	126	138	156	174	180	184	183	176	164	159	153	152	146
21	138	130	127	118	112	103	95	88	109	129	148	157	163	174	182	186	179	165	156	138	128	91	88	81
22	81	77	77	71	73	74	72	70	70	74	77	81	90	101	95	99	90	87	80	78	69	59	60	62
23	32	28	38	31	21	14	9	12	44	69	99	117	130	117	124	127	128	125	116	87	81	66	55	45
24	40	37	25	24	18	21	17	22	45	79	104	128	153	156	164	163	166	161	156	131	117	121	117	113
25	107	101	96	92	99	84	81	74	79	80	88	91	93	94	95	109	110	87	81	61	39	21	8	16
26	15	7	-8	-7	-24	-17	-31	-28	1	35	55	69	88	86	95	96	101	98	79	61	61	55	55	51
27	48	46	43	43	45	43	38	26	54	68	92	104	109	119	121	131	112	113	70	55	42	40	18	
28	11	7	-14	-14	-13	1	-3	0	18	46	63	85	99	115	124	132	135	131	121	90	73	66	61	61
29	57	53	50	48	50	48	51	53	66	87	120	138	163	180	180	170	147	117	110	105	101	96	97	97
30	91	81	70	60	54	53	52	46	66	83	98	108	121	126	131	138	137	123	107	100	89	83	83	92

Note/avis: 1. Climatological Day/Journee climatologique 0001 C.S.T. - 0000 C.S.T.
 2. Hours are C.S.T./Les heures sont a 1'heure normale de la localite C.S.T.
 3. Unit/Unite = 0.1°C

BOULEVARD DU POLE TEMPERATURES AT: WINNIPEG INTERNATIONAL AIRPORT
 TEMPERATURE DE ROSSER NORMALES A: AEROPORT INTERNATIONAL DE WINNIPEG

MOIS: SEPTEMBER 1991
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Date	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	106	104	104	105	103	101	99	99	103	107	114	127	129	132	135	129	135	130	125	134	138	141	147	150
2	153	153	153	155	156	158	162	164	169	172	175	166	168	166	166	169	166	166	166	166	166	166	166	166
3	78	68	68	64	64	59	62	73	81	94	79	71	74	61	53	43	57	52	48	41	44	29	27	29
4	59	54	52	51	56	46	49	53	58	42	33	25	18	20	16	20	20	23	29	30	36	42	60	62
5	56	62	67	56	46	45	37	53	58	46	21	21	16	8	18	12	12	-14	-8	-2	-7	3	10	20
6	20	7	1	-3	7	14	16	21	32	38	53	65	67	77	88	81	79	81	81	78	73	72	85	81
7	83	85	88	89	80	80	85	92	97	107	108	121	148	139	125	128	141	154	165	165	167	168	176	179
8	175	175	169	167	164	162	160	160	161	163	164	164	172	175	174	177	178	180	180	182	180	181	180	178
9	177	174	173	170	169	164	160	160	158	140	127	119	116	112	107	100	99	92	89	87	87	65	61	58
10	52	55	44	43	38	38	33	51	46	38	44	43	38	45	44	47	50	51	49	55	64	67	71	77
11	88	94	90	89	85	89	87	88	92	95	103	111	107	110	123	131	129	129	132	131	130	130	132	136
12	142	152	154	155	156	159	145	136	134	137	134	131	136	137	131	128	121	117	115	112	110	116	104	102
13	104	100	94	91	93	89	83	94	106	128	138	135	112	122	107	95	108	99	112	112	110	102	98	102
14	106	116	121	127	131	123	122	120	123	134	133	132	126	120	120	127	123	118	121	115	115	97	104	108
15	97	106	98	95	107	115	109	113	119	142	141	143	139	141	142	139	137	120	119	109	104	93	84	82
16	78	74	68	66	70	68	71	73	74	76	64	54	52	45	45	41	40	31	38	54	49	42	47	52
17	53	52	56	30	43	50	47	47	41	61	70	73	45	45	43	40	41	30	36	41	29	27	10	-7
18	-16	-13	-13	-11	-27	-4	-5	-2	-2	6	15	15	12	24	22	17	-6	12	-1	3	-1	-2	-7	-6
19	-4	-4	-4	6	9	10	11	-5	-4	-14	-17	-13	-12	-9	-15	-15	-20	-12	-11	-6	-2	4	4	4
20	0	-2	-4	-6	-9	-12	-15	-16	-9	-3	7	10	16	30	47	57	64	66	67	71	73	70	62	54
21	53	52	51	51	50	50	49	49	58	64	71	76	77	79	85	89	74	83	56	59	53	78	79	76
22	74	71	71	64	69	71	67	64	63	62	63	58	54	58	62	37	30	24	29	29	23	17	12	17
23	14	13	20	17	7	0	-5	-6	16	37	47	45	17	9	-2	2	-2	7	30	26	20	17	15	19
24	16	12	3	0	-2	-1	-6	2	17	35	46	60	43	40	44	44	50	56	63	84	97	103	97	91
25	76	71	69	68	45	39	31	26	27	32	37	29	34	27	38	-1	-5	21	11	7	9	-5	-15	-20
26	-23	-26	-31	-33	-44	-37	-49	-46	-28	-22	-18	-14	-10	-14	-20	-32	-35	-36	1	5	-2	-6	-12	-6
27	-5	-9	-6	-2	-5	-1	-1	3	9	15	15	19	25	29	33	21	35	34	27	18	12	10	4	3
28	-5	-4	-29	-25	-23	-11	-15	-15	-2	1	10	23	25	34	29	28	27	27	24	11	7	4	3	3
29	6	4	4	11	13	9	7	9	16	24	40	46	64	73	66	62	77	89	94	98	99	92	88	87
30	78	61	45	41	34	26	23	17	23	26	26	21	19	0	4	3	-4	8	15	14	26	28	23	19

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CLIMATOLOGICAL SUMMARY FOR SEPTEMBER 1991 - WINNIPEG, MANITOBA

Windy and wet is the best way to describe the month of September. The total precipitation of 89.4 mm was 169% of normal while the average wind speed was almost 5 km/h above normal.

Two of the wettest and windiest days were the 17th and 22nd. Total precipitation and peak wind gusts for those dates were 24.4 and 29.4 mm, and 89 and 83 km/h respectively. Winds gusted to over 35 km/h on every day of the month and gusted to over 50 km/h on 19 days out of 30.

Temperatures and sunshine were close to long term normals. The mean temperature was 0.4 degrees below normal. Total sunshine was within 1 hour of the normal.

This is the time of year for stubble burning. Asthma sufferers will remember the 6th to the 15th of the month when the visibility was reduced because of smoke on 6 of those 10 days.