

1984 INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER

ABSTRACT OF THE WIND AT WINNIPEG
ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR.

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	PEAK GUSTS	TIMES (CST)
1	SE 4	NNW 4	N 7	NNE 6	N 6	ENE 7	ENE 6	E 13	E 13	E 17	E 11	ESE 9	SE 6	ENE 6	E 6	ENE 13	NNE 17	NNE 22	NE 13	NE 9	NE 9	NE 7	NE 4			
2	N 4	NNE 4	N 4	N 4	C 4	NW 0	N 6	N 7	NNE 6	NE 2	NNW 4	N 4	N 4	N 2	WNW 7	WNW 4	WNW 6	WNW 6	WNW 6	WNW 4	WNW 6	WNW 4	WNW 7			
3	NW 4	C 0	WSW 6	SW 9	C 6	W 0	WNW 7	C 6	W 7	WNW 0	C 7	W 7	WSW 6	NW 13	N 24	ENE 17	ENE 11	NE 9	NNW 6	NNW 7	NNW 7	NNW 9	NNW 9	NNW 43	J334	
4	WNW 9	W 7	W 11	W 11	W 13	WNW 13	WNW 13	WNW 13	WNW 13	W 17	N 17	N 17	N 13	N 13	N 6	NNE 13	N 13	N 9	NNW 9	NNW 9	NNE 4	C 0				
5	S 4	SE 6	S 7	C 0	S 4	SSE 4	S 6	S 9	S 7	S 11	S 11	SSW 13	SSE 9	SSE 13	S 19	SSE 17	SSE 20	SE 13	SE 17	SE 13	SE 15	SSE 19	SSE 28	SSE 33	2329	
6	SSE 28	SSE 26	SSE 26	SSE 28	SSE 28	SSE 28	SSE 28	SSE 28	SSE 28	SSE 33	SSE 39	SSE 44	SSE 44	SSE 44	SSE 44	SSE 44	SSE 41	SSE 24	SSE 33	SSE 35	SSE 39	SSE 41	SSE 33	SSE 33	1514	
7	SSE 30	SE 30	SE 28	S 30	S 26	S 15	NE 2	SSW 6	SSW 7	SSW 17	SSW 20	SSW 11	SSW 19	SSW 13	SSW 13	SSW 11	SSW 9	SSW 9	SSW 7	SSW 4	SSE 6	SSE 6	SSE 7	SSE 6	0202	
8	S 11	SSW 13	SSW 9	S 13	S 11	S 11	S 7	S 11	S 7	S 9	SSW 11	SSW 4	SSW 4	SSW 6	SSW 4	SSW 4	SSW 4	WNW 4	WNW 13	WNW 17	WNW 13	WNW 19	WNW 15	WNW 15		
9	NNW 15	NNW 13	NNW 17	NNW 19	NNW 20	NNW 19	NNW 17	NNW 17	NNW 17	NNW 20	NNW 15	NNW 17	NNW 13	NNW 15	NNW 13	NNW 13	NNW 9	NNW 9	NNW 13	NNW 11	NNW 11	NNW 9	NNW 7	NNW 4		
10	N 6	NNW 7	NNW 9	NNW 7	NNW 9	NNW 11	NNW 9	NNW 11	NNW 13	NNW 13	NNW 11	NNW 11	NNW 9	NNW 15	NNW 13	NNW 7	NNW 6	NNW 6	NNW 9	NNW 11	NNW 7	NNW 9	NNW 7	NNW 6		
11	W 6	WSW 6	WSW 9	WSW 4	WSW 0	WSW 2	WSW 0	WSW 4	WSW 4	WSW 4	WSW 0	WSW 7	WSW 7	WSW 4	WSW 0	WSW 4	SSE 7	ESE 11	ESE 7	ESE 7	ESE 11	ESE 11	ESE 13	ESE 17		
12	SE 17	ESE 19	ESE 22	ESE 24	ESE 20	ESE 26	ESE 13	ESE 22	ESE 24	ESE 28	ESE 24	ESE 28	ESE 20	ESE 17	ESE 11	ESE 6	WSW 7	WSW 11	WSW 15	WSW 7	WSW 11	WSW 11	WSW 7	WSW 11	1029	
13	W 7	NNW 11	NNW 15	NNW 19	NNW 15	NNW 17	NNW 15	NNW 17	NNW 22	NNW 24	NNW 28	NNW 28	NNW 22	NNW 24	NNW 22	NNW 20	NNW 11	NNW 11	NNW 6	NNW 11	NNW 11	NNW 7	NNW 6	NNW 7	0402	
14	NW 7	NW 9	NW 11	NW 11	WSW 9	WSW 7	WSW 7	WSW 7	WSW 17	WSW 17	WSW 17	WSW 17	WSW 17	WSW 13	WSW 13	WSW 35	NNW 20	NNW 11	NNW 0	NNW 4	NNW 0	SSW 7	SSW 7	SSW 11	1337	
15	WSW 9	WSW 9	WSW 7	WSW 7	WSW 6	WSW 11	WSW 13	WSW 13	WSW 9	WSW 13	WSW 13	WSW 13	WSW 19	WSW 19	WSW 9	WSW 11	WSW 13	WSW 4	WSW 6	WSW 4	SSW 4	SSW 4	SSW 0	SSW 15	6	

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF

LOCAL STANDARD TIME

ALL TEMPERATURES IN DEGREES CELSIUS

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.	9.2	6.7	4.0	6.8	7.2	7.2	8.5	10.2	11.2	13.8	14.6	15.4	16.2	16.0	16.4	17.3	16.2	16.0	15.3	14.7	14.0	13.5	13.0	11.2
2.	10.8	11.0	10.2	10.4	9.8	9.8	9.0	9.3	10.3	11.3	12.1	12.8	14.2	15.2	15.7	16.0	16.3	15.1	14.2	13.2	12.6	12.6	12.2	11.2
3.	10.0	9.0	8.2	7.8	7.4	6.1	6.9	8.3	11.7	14.5	16.0	16.5	16.0	14.5	11.4	11.3	11.5	11.4	11.8	9.9	8.6	7.7	7.3	6.4
4.	6.3	7.6	6.3	7.1	6.5	5.5	4.6	6.5	10.0	13.2	15.5	17.0	17.0	18.5	19.5	18.7	17.7	18.0	16.8	15.4	14.8	11.5	8.8	8.5
5.	7.5	8.2	7.2	5.9	5.6	5.2	6.0	7.4	10.8	14.0	17.0	19.5	19.0	21.2	21.7	21.9	21.3	20.8	20.1	17.7	16.2	15.4	15.0	14.7
6.	14.1	14.2	13.8	13.4	13.2	15.0	12.6	13.1	15.7	17.8	20.6	22.5	23.6	25.0	26.2	26.6	25.6	24.7	23.8	22.1	21.3	19.0	17.6	17.0
7.	16.7	16.6	16.4	16.4	15.6	14.8	13.7	13.7	13.6	14.9	16.8	18.2	17.8	19.3	19.6	21.6	20.0	21.0	18.7	16.2	15.6	15.3	14.5	14.2
8.	13.3	12.2	12.2	10.8	10.2	10.0	10.1	10.4	11.2	13.9	14.4	14.9	14.3	14.5	12.9	13.9	14.3	12.9	11.9	12.0	12.0	12.2	11.0	10.2
9.	10.3	10.4	10.3	10.0	9.5	9.3	9.0	8.8	9.0	10.3	11.7	12.0	12.0	12.7	12.9	13.0	12.2	12.3	11.6	9.8	9.5	9.0	8.5	8.0
10.	7.6	7.7	7.0	6.8	6.6	6.5	6.4	6.5	7.3	9.3	10.7	12.1	13.5	14.0	12.5	12.7	12.4	12.0	11.1	9.5	9.0	8.5	6.3	6.1
11.	6.7	5.8	4.7	3.2	3.0	4.0	3.3	3.8	7.0	9.5	11.7	13.5	13.0	14.2	15.2	15.9	15.5	15.2	14.3	12.0	13.0	12.8	13.2	13.4
12.	12.1	12.0	11.8	11.8	11.9	12.0	11.4	10.2	10.2	10.2	10.5	11.0	11.0	11.5	12.0	12.5	12.7	13.0	12.7	11.2	11.0	11.3	11.3	11.4
13.	10.4	10.9	10.6	10.2	9.1	7.9	7.6	7.9	9.4	9.0	10.8	10.8	12.4	13.2	13.3	14.3	14.2	12.0	10.9	10.0	9.1	8.4	7.1	6.6
14.	5.4	3.9	3.4	2.9	3.9	4.6	5.6	6.7	8.6	9.2	11.0	12.0	13.3	12.4	11.2	11.6	12.3	10.8	11.6	9.2	7.2	7.0	5.5	5.8
15.	5.1	4.6	6.3	6.7	5.3	5.9	4.7	5.1	6.9	10.4	13.5	15.4	16.0	17.3	16.4	17.3	17.1	17.0	15.1	10.5	7.6	8.1	7.1	7.1
16.	5.6	5.7	6.2	6.2	5.5	4.3	4.9	5.3	8.1	11.5	15.5	17.5	20.7	22.0	22.2	22.1	21.7	21.3	20.0	18.0	16.8	16.2	15.6	16.0
17.	15.7	14.8	14.2	13.2	11.6	10.4	10.2	10.3	11.8	13.9	16.8	19.3	22.4	24.5	25.1	26.3	26.7	26.4	23.8	20.2	19.2	18.3	18.7	17.8
18.	17.0	17.5	17.0	16.2	16.0	14.4	13.2	13.0	15.8	17.6	19.7	21.2	21.8	22.2	22.5	22.1	22.1	21.3	19.2	15.0	13.8	12.7	12.5	12.4
19.	10.8	10.0	11.2	12.6	13.4	13.8	12.8	13.4	15.2	17.3	17.8	19.5	21.0	20.5	21.5	22.0	21.5	20.7	19.0	16.0	13.6	11.4	11.1	10.2
20.	9.8	8.1	7.2	6.8	6.7	5.5	4.8	6.5	8.8	12.8	15.0	17.3	17.9	18.8	19.4	18.7	18.3	17.5	16.7	15.1	13.8	14.5	13.2	12.9
21.	10.8	10.0	9.8	9.9	9.8	10.1	9.8	9.4	9.8	10.0	10.4	11.2	11.3	11.2	11.5	11.0	11.4	11.4	11.4	11.9	11.9	12.4	13.9	15.1
22.	16.9	15.9	11.0	10.5	10.6	11.0	10.7	11.0	11.1	11.5	10.7	11.4	13.3	13.8	14.5	14.0	11.6	9.4	8.4	7.0	5.3	3.8	2.8	2.0
23.	1.9	2.3	2.5	2.4	2.3	1.7	1.2	1.6	2.2	2.7	3.8	4.4	5.2	5.8	6.5	6.1	6.4	5.8	5.1	3.7	3.6	2.8	2.4	2.8
24.	1.0	1.1	.9	1.2	1.2	.7	.3	-.3	0.0	.4	1.3	3.1	3.3	4.1	4.1	3.2	3.5	2.6	1.3	.2	.1	.2	-.1	-.1
25.	-.3	-.3	-.4	-.4	-.5	-.4	-.4	-.4	-.4	0.0	.7	1.8	3.3	4.1	4.9	3.9	4.6	4.6	3.2	1.3	0.0	0.0	0.0	.2
26.	1.0	-.6	1.7	2.1	1.2	1.1	.2	.5	1.5	3.0	4.8	6.3	6.7	5.4	6.7	6.6	7.3	7.9	5.1	2.5	1.7	.8	.6	.1
27.	-.9	.8	.3	.8	.8	.2	-.8	-.7	1.7	3.0	4.8	3.8	5.2	4.8	5.5	5.4	5.5	4.3	4.3	1.7	1.0	-.8	.2	.8
28.	.9	1.0	.2	-.4	-.9	-1.4	-1.6	-1.2	.8	3.0	6.0	8.5	9.8	11.0	11.6	11.6	11.4	10.7	7.6	5.0	2.3	3.5	2.5	2.7
29.	1.2	1.2	.7	1.6	.3	-.1	.2	.2	2.5	5.9	9.0	12.4	14.5	14.8	15.0	15.0	15.0	14.2	11.6	9.9	8.1	5.5	3.7	2.7
30.	1.8	1.0	-1.0	-.4	-.2	-.7	-1.3	-1.3	1.6	6.2	9.2	10.9	11.5	10.7	12.8	12.8	13.0	12.5	9.4	5.8	4.0	3.3	5.0	3.8

MEAN	8.0	7.7	7.1	7.1	6.8	6.5	6.1	6.5	8.1	9.9	11.7	13.1	13.9	14.4	14.7	14.8	14.6	14.2	12.9	10.9	9.9	9.2	8.7	8.4
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MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	12.3	12.4	10.4	12.1	14.1	19.1	16.7	12.3	10.5	9.3	10.2	11.5	10.3	8.1	10.3	13.7

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MEAN	18.0	17.3	15.7	12.8	11.1	10.3	3.6	1.4	1.2	3.1	2.2	4.4	6.9	5.4

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		SEPTEMBER / SEPTEMBRE								19 84					
Temperature/Température Precipitation/Précipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	°Celsius - Millimetres (mm) - Millimetres (mm) - Centimetres (cm) - Kilometres per hour (km/h) - Kilopascals (kPa)	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS				
		VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU							
						VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE						
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE		27.1	17	38.8	2	29.3	38.8	2	1983	21.7	1	1884	113				
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		-1.7	27 28	-1.2	22	-2.5	2.8	20 27,28	1948	-8.3	29	1899	113				
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		10.6		12.9		12.4	16.8		1948	8.0		1965	113				
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		55.4		52.8		53.0	149.6		1941	1.3		1948	113				
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE		6.6		Tr.		0.2	18.3		1872	N11		(SEV)	113				
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		62.0		52.8		53.3	156.2		1872	1.3		1948	113				
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		11		13		11	17		1941 1953	3		1879 1948	113				
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		38.8	12*	24.0	30		81.5	6	1972 1886				113				
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE		5.8	24*	Tr.	30		18.3	25	1872				113				
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		38.8	12*	24.0	30		81.5	6	1886				113				
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:																	
5 MINUTES		2.0	12	2.7	30		11.2	20	1970				26				
10 MINUTES		4.4	12	3.4	30		20.8	20	1970				26				
15 MINUTES		4.9	12	3.9	30		29.0	20	1970				26				
30 MINUTES		7.1	12	4.4	30		37.9	20	1970				26				
60 MINUTES		11.5	12	7.3	30		41.1	20	1970				26				
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		39.4	12-13	24.2	29-30		81.5	6	1886				113				
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		14.3		16.9		18.5	24.6		1943	13.2		1925	64				
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SSE 44	6	WSW 52	10	55	N 72	23	1942					46				
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	SW 69	22	W 74	18	79	S105	16	1946					40				
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		180.6		161.6		184.6	251.9		1940	113.0		1912	89				
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.71		98.42		98.51	98.87		1940	98.25		1970	46				
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.96	15	100.17	29	100.07	101.11	25	1940				46				
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.05	22	99.69	5	96.67				95.64	26	1959	46				
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES												TEN / DIX		YEARS DERNIÈRE ANNÉES		(10)	
YEAR ANNÉE	MAXIMUM TEMP. MAXIMALE	MINIMUM TEMP. MINIMALE	MEAN TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE						
1975	27.2	-2.2	10.9	41.8	Tr.	41.8	18.7	NNW 51	180.3	213.4	180.5						
1976	34.5	-3.6	13.3	9.9		9.9	18.5	NW 54	227.5	159.8	251.3						
1977	25.4	0.1	12.4	148.2		148.2	16.1	NNW 52	136.3	170.5	220.5						
1978	36.2	1.8	14.6	82.6		82.6	17.8	E 54 S 54	202.4	132.1	288.7						
1979	32.8	1.3	13.0	24.9		24.9	17.6	WNW 52	189.9	158.0	239.7						
1980	33.3	-4.3	11.2	85.6		85.6	18.6	NW 52	171.7	210.2	194.6						
1981	29.5	-2.7	12.4	72.1	0.4	72.5	17.3	NW 63	210.6	172.9	228.8						
1982	34.5	-3.3	12.2	58.2		58.2	19.8	NW 61	201.1	193.6	216.5						
1983	38.8	-1.2	12.9	52.8	Tr.	52.8	16.9	W 52 WSW 52	161.6	180.6	239.4						
1984	27.1	-1.7	10.6	55.4	6.6	62.0	14.3	SSE 44	180.6	223.8	178.1						

24 hour period rain and precipitation - September 12-13 - 39.4
 24 hour period snowfall - September 24-25 - 6.6