

INTERNATIONAL AIRPORT FOR THE MONTH OF JULY

ABSTRACT OF THE WIND AT WINNIPEG  
VELOCITY IN KILOMETERS PER HOUR

ALL TIMES ARE C.S.T.	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	TIME (CST)
1	E 6	ESE 6	SSE 7	SE 9	ESE 7	ESE 13	SE 9	SE 15	SE 13	SE 22	SSE 22	SE 26	SSE 26	SSE 26	S 20	SSE 26	SSE 26	SSE 28	SSE 28	SSE 19	SE 19	SE 17	SE 19	SSE 28	SSE 50	1137
2	SE 19	SSE 20	SSE 22	SE 19	SE 17	SE 20	SE 30	SE 30	SE 30	SE 28	SSE 19	SSE 30	SE 31	E 31	E 31	E 33	E 37	E 28	E 30	ESE 28	ESE 20	ESE 22	E 22	E 22	E 52	1532
3	ESE 24	ESE 9	E 7	NE 6	NE 17	C 0	N 7	ENE 7	ENE 2	SSE 2	ENE 2	SSE 6	ESE 4	ESE 15	ESE 13	ESE 17	E 20	E 22	E 24	E 24	ESE 20	ESE 20	ESE 19	ESE 19	ESE 33	2236
4	SE 13	SE 11	SE 13	SE 13	SSE 15	S 15	S 9	WSW 20	NW 15	NNE 7	SE 19	SE 20	SSE 20	SSE 17	SSE 19	SSE 28	SSE 28	S 24	S 24	SE 13	SE 17	SE 17	SE 11	ESE 19	S 48	1707
5	E 13	SSE 22	SE 17	SE 19	SSE 20	SSE 24	WNW 13	WSW 9	WSW 19	SSW 13	ESE 19	ESE 26	SSE 24	SSW 11	SSW 13	WNW 20	WNW 7	W 9	W 6	W 4	SW 4	S 4	S 9	SW 11	E 43	0933
6	WSW 15	WSW 19	WSW 17	WSW 13	WSW 15	WSW 13	WSW 15	WSW 17	WSW 20	WSW 20	WSW 22	WSW 26	WSW 19	WSW 20	WSW 28	WSW 31	WSW 24	WSW 30	WSW 17	WSW 20	WSW 15	WSW 20	WSW 17	WSW 37	WSW 50	1524
7	WNW 35	WNW 28	WNW 31	NW 31	NW 26	NW 31	NW 22	WNW 20	WNW 31	WNW 28	WNW 22	WNW 24	WNW 37	WNW 43	WNW 31	WNW 26	WNW 17	W 11	W 13	W 6	C 0	S 4	S 7	SSW 9	WNW 63	1221
8	WNW 7	WSW 13	WSW 15	WSW 13	WSW 15	WSW 13	WSW 17	WSW 13	WSW 17	WNW 20	WNW 17	WNW 20	WSW 13	WSW 17	WSW 13	WSW 11	WSW 15	WSW 11	WSW 13	WSW 9	WSW 11	WSW 9	WSW 6	WSW 9	WSW 50	1524
9	WNW 9	C 0	NNW 6	NNW 9	NNE 4	NNE 4	WSW 4	NNW 6	NNW 9	C 0	SE 6	E 6	NNE 13	NNE 17	NNE 13	N 2	E 6	SSE 9	SSE 9	S 15	SSE 11	SSE 9	S 7	SSE 6	WNW 37	1544
10	S 6	S 17	S 7	SW 2	SW 6	SW 6	SSE 6	SSW 9	SSW 13	S 13	SSE 9	SSE 7	WNW 6	WNW 6	E 4	WSW 9	NNW 28	NW 15	NW 6	W 9	WSW 2	W 13	W 13	W 7	NW 37	1544
11	W 9	W 13	W 9	W 11	W 9	W 4	W 6	W 4	NNW 4	NNW 6	NNW 6	NNW 11	NNW 9	NNW 15	NNW 19	NNW 15	NNW 20	NNW 13	NNW 11	W 6	W 6	W 13	W 11	WSW 11	NW 33	1411
12	W 11	WSW 9	WSW 2	WSW 4	WSW 0	WSW 7	WSW 9	WSW 11	WSW 6	WSW 13	WSW 13	WSW 13	WSW 17	WSW 15	WSW 13	WSW 17	WSW 24	WSW 11	WSW 24	WSW 17	WSW 19	WSW 17	WSW 13	WSW 9	NNW 46	1601
13	NE 11	NNE 20	NNW 11	NNW 9	NNW 15	NNW 19	NNW 9	NNW 11	NNW 9	NE 17	NE 22	NE 17	NNE 19	NNE 15	NNE 13	ENE 15	N 17	NNE 11	NNE 17	NNE 17	NNE 17	NNE 9	NNE 13	N 9	NNE 33	1113
14	NNE 6	NNE 4	NNW 2	NNW 0	NNW 0	NNW 6	NNW 7	NNW 2	NNW 6	SE 6	SE 6	SE 6	SE 11	SSE 15	SSE 2	SSE 15	SSE 15	SE 15	SE 15	SE 11	SE 15	ESE 11	ESE 11	ESE 17	SSE 37	1520
15	SE 19	ESE 19	ESE 15	SE 17	SE 20	ESE 9	SE 11	SE 22	SE 17	SSE 22	SSE 22	SSE 19	SSE 11	SSE 17	SSE 22	SSE 19	SSE 20	SSE 22	SSE 17	SSE 20	SSE 17	SSE 7	SSE 19	SSE 13	SSE 37	1520

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JULY 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.	13.6	14.0	12.7	11.8	12.2	10.7	13.3	17.6	19.9	22.3	23.4	23.7	24.4	25.0	25.5	25.8	25.5	25.5	25.2	24.2	22.7	21.4	20.5	19.8
2.	19.6	18.8	18.8	19.2	19.6	19.3	19.2	20.6	19.8	17.6	20.0	22.8	21.2	18.3	17.9	17.8	17.5	17.5	17.5	17.3	17.2	17.0	17.1	17.3
3.	17.7	17.7	17.5	17.0	16.6	16.7	16.8	16.8	17.2	17.8	18.0	18.7	19.7	21.7	23.6	24.2	24.5	24.3	24.0	23.8	23.0	21.3	20.0	18.6
4.	18.0	17.3	17.0	16.7	16.7	16.7	17.0	18.5	18.8	19.5	24.0	24.8	26.6	28.3	29.0	30.6	30.7	29.5	27.4	25.5	24.3	23.6	22.2	22.0
5.	20.8	22.2	20.3	20.5	19.7	19.2	17.8	18.0	17.7	17.3	17.9	20.1	22.3	25.3	26.0	25.7	25.6	25.8	25.7	25.5	24.0	22.8	22.0	20.8
6.	19.8	18.1	17.6	16.0	15.4	15.2	16.3	17.1	19.1	19.8	21.0	21.6	22.1	23.3	23.1	24.2	23.6	23.4	22.1	21.8	21.5	18.8	16.9	15.9
7.	14.0	12.3	12.2	12.2	12.4	11.0	10.8	11.8	14.3	16.2	16.4	18.3	19.5	19.9	20.3	20.9	21.1	20.7	20.0	19.8	17.0	16.4	15.0	
8.	12.4	12.4	13.2	13.0	12.8	10.5	12.0	14.7	17.0	19.8	21.2	22.6	21.9	22.3	23.4	22.7	22.8	22.1	21.9	20.2	18.3	17.0	15.7	
9.	15.4	14.9	14.0	14.8	14.8	15.2	15.2	16.1	17.1	18.8	20.8	23.4	23.4	24.4	25.0	23.8	24.9	24.9	23.7	22.8	21.3	19.3	17.8	
10	17.3	16.3	14.0	14.2	13.8	14.2	14.1	16.7	18.0	19.3	20.7	22.2	23.0	24.0	24.2	25.7	22.5	22.5	24.2	21.7	20.3	18.7	18.3	16.5
11	16.0	14.8	14.2	14.2	13.7	13.8	14.2	16.3	19.6	21.6	23.7	24.0	25.5	26.2	27.2	27.0	27.2	25.8	24.6	24.4	22.8	21.2	19.3	18.5
12	18.2	18.0	17.3	16.3	16.1	14.3	15.8	17.7	21.3	23.2	25.0	25.7	27.0	27.6	28.2	28.8	28.5	27.0	27.5	24.5	23.2	20.8	19.8	18.7
13	18.3	17.8	16.3	15.9	15.7	15.3	15.5	15.7	15.8	15.5	16.4	17.6	19.4	20.0	19.9	19.7	19.5	19.8	19.4	18.8	17.3	15.7	13.3	12.9
14	13.3	11.1	9.7	8.9	8.6	10.0	11.4	15.1	17.9	19.5	20.5	21.8	23.3	23.8	23.6	24.3	24.5	24.5	24.7	24.0	23.2	22.7	22.1	21.4
15	21.1	20.8	20.0	20.4	20.5	20.2	20.2	21.0	21.5	21.8	22.7	24.2	26.6	27.5	28.5	27.5	27.6	27.6	26.9	26.4	25.6	25.3	24.2	23.5
16	22.4	21.4	21.0	20.9	20.2	20.0	20.0	20.1	20.7	22.0	20.9	24.1	24.5	25.6	26.9	28.5	27.6	27.8	28.0	26.0	26.0	20.9	20.7	17.1
17	17.6	18.0	17.8	16.4	14.7	13.5	13.4	14.3	15.8	16.5	17.5	18.9	18.7	18.7	21.0	22.0	20.5	20.0	18.5	16.0	14.7	13.7	13.5	
18	12.4	11.7	11.3	10.8	10.0	10.5	12.7	14.9	17.0	17.8	18.9	19.9	19.9	20.8	20.1	21.2	21.4	20.7	21.1	20.4	19.2	17.8	17.0	17.0
19	16.3	15.0	15.0	15.4	15.0	15.2	15.2	17.1	18.5	20.0	21.0	21.9	21.9	22.1	23.1	23.1	22.9	24.1	23.5	23.0	22.0	20.2	19.8	19.3
20	18.5	18.0	17.5	17.0	17.0	16.5	17.0	18.5	18.0	20.6	23.1	24.1	25.0	27.0	26.9	26.9	27.0	26.6	25.9	24.2	22.2	20.4	18.4	17.0
21	16.0	15.8	15.3	14.6	13.5	13.5	13.3	16.5	17.9	19.1	19.8	22.0	21.5	22.0	22.0	22.4	22.8	22.5	22.2	21.5	19.5	17.6	15.1	14.0
22	13.6	13.2	12.5	13.0	14.0	12.4	15.3	18.0	19.5	20.8	22.2	22.3	22.2	22.4	22.7	21.5	21.1	21.4	22.1	22.3	21.3	20.3	19.5	18.8
23	19.2	19.2	19.4	19.5	19.2	19.0	19.0	19.3	18.9	20.4	21.6	24.2	22.5	22.6	23.6	25.0	25.1	25.6	24.5	23.3	23.3	22.6	23.0	22.4
24	21.2	21.5	21.7	20.8	20.3	20.4	20.1	20.8	22.1	24.1	24.5	26.3	26.6	27.9	27.6	27.6	27.1	26.4	26.0	24.4	22.0	21.2	20.4	19.3
25	19.0	17.2	16.2	15.5	14.1	15.0	15.3	16.1	18.9	20.8	22.0	23.1	22.9	24.0	24.3	24.2	23.8	22.9	23.5	21.5	19.9	17.8	16.1	15.1
26	14.8	14.5	12.8	11.9	12.1	12.9	13.9	15.3	18.9	20.9	22.2	23.8	24.5	25.2	25.5	25.7	26.0	26.7	24.8	23.2	22.0	20.1	19.5	18.9
27	18.6	18.0	16.7	17.0	16.8	16.9	16.6	17.0	18.0	18.6	20.0	22.8	24.4	25.3	25.7	25.3	24.7	24.0	24.3	23.2	22.5	18.8	17.5	15.5
28	15.6	15.5	14.9	14.8	14.2	13.5	15.5	18.5	21.3	22.8	24.8	26.5	26.0	27.0	24.8	21.1	22.7	21.2	18.0	17.9	14.4	15.2	15.1	15.0
29	14.3	14.2	13.0	13.6	13.2	13.8	15.0	15.7	16.2	17.2	18.3	22.0	21.4	21.0	23.0	22.0	23.2	22.2	21.2	21.5	18.8	17.5	16.5	16.5
30	15.8	15.5	14.8	13.8	14.3	13.9	13.7	15.5	18.2	20.8	22.1	23.7	24.4	24.1	25.3	24.8	23.7	23.5	23.0	23.3	22.5	21.0	20.4	20.0
31	18.5	18.2	17.4	16.9	16.9	16.2	16.1	16.1	17.3	19.5	22.8	26.1	28.2	28.4	30.0	27.8	26.9	24.2	22.9	21.2	19.7	19.0	17.8	16.7

MEAN	17.1	16.6	15.9	15.6	15.3	15.0	15.5	16.9	18.5	19.8	21.1	22.6	23.3	23.9	24.4	24.4	24.3	23.9	23.4	22.4	21.1	19.6	18.7	17.8
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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	20.0	18.7	19.9	22.7	21.8	19.7	16.4	17.7	19.6	19.3	20.7	22.1	17.1	18.7	23.8	23.1

MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MEAN	16.9	16.5	19.6	21.7	18.4	18.9	21.8	23.3	19.6	19.8	20.3	19.0	18.0	19.9	21.0

COMPARATIVE RECORDS HELVÉS COMPARATIFS		MONTH MOIS		JULY/JUILLET		19 82							
Temperature/Température	- Celsius	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
Precipitation/Precipitation	- Millimetres (mm)	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
Rainfall/Hauteur de pluie	- Millimetres (mm)					VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR
Snowfall/Hauteur de neige	- Centimetres (cm)												
Wind speed/Vitesse du vent	- Kilometres/par hour (km/h)												
Station pressure/Pression à la station	- Kilopascals (kPa)												
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE		31.1	4	34.0	6	32.9	42.2	11	1936	26.1	22,24	1884	111
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		8.4	14	5.6	25	6.0	11.7	27 30	1943 1935	1.1	3	1972	111
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		20.0		20.0		19.6	24.2		1936	15.4		1884	111
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		106.9		39.0		75.9	197.4		1953	13.5		1875	111
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE													
TOTAL MONTHLY PRECIPITATION PRECIPITATION TOTALE MENSUELLE		106.9		39.0		75.9	197.4		1953	13.5		1875	111
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRECIPITATION MESURABLE		10		11		11	18		1912 1938	5		1939	99
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		34.6	28	12.1	15		133.6	12	1914				111
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE													
GREATEST PRECIPITATION IN ONE DAY PRECIPITATION MAXIMALE EN UNE JOURNÉE		34.6	28*	12.1	15		133.6	12	1914				111
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		8.6	16	4.2	15		17.8	16	1968				24
10 MINUTES		13.0	16	5.4	15		24.6	16	1968				24
15 MINUTES		16.2	16	6.9	30		35.3	16	1968				24
30 MINUTES		22.6	16	10.7	15		39.4	16	1968				24
60 MINUTES		22.6	16	11.1	15		39.4	16	1968				24
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		35.6	28-29	12.1	15		133.6	12	1914				111
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		15.1		15.2		16.0	20.9		1952	10.9		1972	62
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		WNW52	17	S52	2,6	52	NW68	10	1946				44
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		WSW91	16										
		WSW91	17	W76	30	85	SSW127	14	1959				38
		WNW91	28										
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		307.6		332.4		315.6	367.7		1974	178.3		1912	83
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.34		98.47		98.47	98.70		1956	98.20		1975	44
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.56	22	99.56	26	99.55	100.04	4	1972				44
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.68	17	97.13	7	97.14				96.28	1	1968	44
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													
TEN (DIX) 10 YEARS DERNIÈRE ANNÉES													
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 DEGRES JOURS DE CHAUFFE	GROWING DEGREE DAYS DEGRES JOURS DE CHOISSANCE		
1973	29.4	6.1	18.3	122.9		122.9	15.1	WSW56	313.8	23.9	417.2		
1974	33.3	8.3	21.9	32.0		32.0	16.6	NW48	367.7	4.4	527.2		
1975	35.5	7.0	21.5	58.2		58.2	15.0	S 47	357.8	12.0	510.6		
1976	31.5	6.1	19.7	36.9		36.9	16.9	NNW46	348.4	15.7	454.8		
1977	31.6	8.3	19.4	85.3		85.3	16.1	ESE46	340.5	11.1	445.3		
1978	30.4	5.8	18.9	60.6		60.6	14.1	W 59	305.9	30.5	430.1		
1979	32.7	7.0	20.9	23.1		23.1	14.9	WNW50	333.8	12.4	493.4		
1980	34.8	5.5	20.4	23.7		23.7	15.6	N,S41 E 41 NW41 WNW41 SSW41 NNW41	326.1	9.7	478.7		
1981	34.0	5.6	20.3	39.0		39.0	15.2	S 52	332.4	15.3	474.6		
1982	31.1	8.4	20.0	106.9		106.9	15.1	WNW52	307.6	7.7	465.3		