

1980

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JULY  
 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 GUST	HOUR
1	7	11	19	11	11	11	7	7	9	13	15	17	19	17	19	19	22	11	13	4	2	2	0	7	WNW	14 CST
2	13	15	11	13	11	15	13	15	15	20	17	26	30	30	22	20	22	4	13	4	4	9	15	2	W	13 CST
3	4	7	13	6	0	0	2	19	17	11	9	E	ESE	ENE	ENE	NE	ENE	NE	ENE	ENE	NE	ENE	NE	NE	N	22 CST
4	E	E	E	E	E	ENE	NE	ENE	NE	E	NE	N	NNE	NE	ENE	NE	ENE	NE	ENE	NE	NNE	N	NNE	ENE	ENE	01 CST
5	0	0	0	0	0	0	0	0	4	4	4	2	9	13	4	19	15	11	19	11	13	15	11	15	SSE SSE	
6	17	24	19	19	20	15	24	28	35	37	19	24	37	37	35	33	37	33	35	24	24	26	26	22	SSW	12 CST
7	24	24	22	20	19	20	19	28	28	35	33	41	33	37	37	37	28	31	26	17	7	6	9	7	WNW	10 CST
8	9	11	0	0	0	0	2	0	2	13	4	19	24	9	33	17	4	7	4	9	4	15	11	11	W	13 CST
9	15	9	15	7	6	13	22	20	22	22	20	20	24	22	15	19	19	20	6	4	0	0	0	0	W	14 CST
10	7	0	19	13	11	0	7	6	4	4	2	13	19	19	7	11	17	22	19	19	9	9	9	9	W	03 CST
11	9	17	4	0	0	17	28	2	20	31	11	26	28	22	22	26	30	22	17	24	13	19	15	13	WNW	19 CST
12	13	17	17	15	17	19	19	22	20	26	28	22	20	28	13	19	13	13	2	2	2	0	2	7	NW	12 CST
13	9	4	13	2	7	15	19	33	20	28	26	31	31	22	28	19	31	24	28	26	33	24	22	SW	14 CST	
14	26	15	13	19	20	31	22	26	24	15	9	11	22	19	15	17	24	20	19	17	15	19	20	9	N	06 CST
15	2	11	11	15	11	4	6	6	4	9	9	15	4	9	6	13	4	6	0	17	17	11	11	13	NNE	

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JULY 1980

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	14.1	13.7	12.0	9.4	9.2	8.2	10.0	12.2	14.5	15.9	17.5	17.3	17.0	21.0	20.5	20.9	21.0	22.0	22.0	21.3	19.2	16.8	15.6	14.8
2	14.7	14.5	13.3	12.3	12.0	13.0	13.0	15.3	18.9	21.1	23.3	26.1	27.0	28.4	28.4	29.5	30.4	29.7	28.9	28.5	26.7	24.0	22.2	18.4
3	18.1	17.9	17.4	15.0	13.8	15.2	17.0	18.7	21.4	23.1	23.9	24.9	26.0	26.8	27.1	26.8	26.3	25.0	23.9	21.6	20.6	20.2	18.2	15.6
4	15.9	16.3	16.4	15.8	16.8	16.8	15.9	13.4	13.2	15.0	15.1	17.0	17.4	16.1	16.5	18.3	18.0	18.1	18.0	18.6	17.6	15.0	14.4	13.2
5	12.4	10.9	11.2	10.5	10.2	9.2	10.0	12.6	15.6	17.5	19.0	19.7	21.2	22.7	23.1	23.8	24.7	24.7	24.5	23.8	22.2	20.6	20.0	18.9
6	18.3	17.9	17.6	16.6	16.7	17.1	17.6	19.1	19.0	18.2	18.0	19.5	20.8	26.4	27.6	27.5	26.6	24.5	21.4	23.3	22.7	22.4	23.0	23.2
7	23.3	21.8	21.0	19.5	19.4	18.0	17.6	18.9	19.8	20.9	21.1	22.5	22.5	23.1	24.0	24.6	25.0	24.7	24.3	23.5	21.4	18.6	19.0	16.1
8	15.1	15.3	14.0	13.0	11.0	11.5	12.5	15.2	17.8	20.6	24.0	25.0	25.7	27.0	28.0	27.5	28.2	27.8	26.7	25.9	24.8	24.0	22.8	22.0
9	22.9	19.6	20.7	20.0	19.9	19.0	19.9	21.7	24.1	26.4	28.2	29.3	30.4	31.7	32.8	32.3	32.7	31.9	31.2	29.2	27.2	24.0	22.6	21.6
10	21.0	20.2	21.7	21.2	21.0	18.6	19.0	21.7	25.4	27.4	28.8	29.8	29.5	30.5	30.9	30.8	30.6	30.8	29.5	27.7	25.6	23.3	21.6	20.8
11	20.2	20.2	19.2	18.5	17.7	18.3	19.5	17.8	19.0	19.3	21.3	23.6	24.6	24.9	24.3	27.3	28.0	27.9	28.7	24.2	24.0	23.4	21.0	20.6
12	20.0	18.8	18.0	17.7	17.4	16.2	16.8	19.1	21.4	22.4	24.1	25.1	27.0	27.2	28.1	28.7	28.5	28.9	28.6	27.9	27.0	22.9	20.7	21.0
13	19.5	19.0	19.7	18.0	17.7	18.5	20.0	22.3	22.2	25.5	27.1	26.4	28.4	31.0	32.2	33.5	33.0	32.8	29.1	26.2	24.5	23.0	21.4	20.3
14	19.6	18.9	18.1	17.5	18.0	18.0	17.4	17.6	18.7	19.7	20.2	21.8	22.4	22.2	22.5	23.0	22.2	21.7	21.9	20.2	19.0	18.0	17.1	15.9
15	14.5	13.9	13.5	14.0	13.6	12.6	12.6	15.0	17.1	18.7	21.4	22.4	22.3	22.3	23.7	22.5	23.5	24.4	23.5	23.0	22.0	19.7	19.7	18.5
16	17.7	17.3	17.1	17.0	17.2	16.4	15.8	16.5	19.0	20.4	20.8	21.8	23.5	24.8	23.8	25.0	25.0	25.0	24.5	23.8	22.2	19.7	17.4	17.1
17	15.7	16.5	16.1	15.4	14.7	14.7	16.2	19.7	22.9	24.2	26.3	27.0	25.8	29.3	26.0	25.4	26.0	24.7	25.0	23.2	22.5	22.2	21.1	20.1
18	18.4	17.8	17.5	16.7	17.1	16.9	17.5	18.0	17.9	19.0	23.1	25.2	24.5	25.4	25.9	26.0	24.0	25.0	23.7	23.0	21.8	17.9	16.9	16.0
19	15.6	15.3	15.0	14.2	14.0	13.5	15.0	17.8	20.8	22.4	23.1	23.0	24.3	24.0	23.2	22.9	22.7	22.2	21.6	19.9	19.0	18.0	16.8	16.0
20	15.4	14.6	14.5	13.7	14.6	13.5	14.1	16.2	18.5	19.2	20.2	20.8	20.6	18.5	16.9	16.8	17.8	18.1	17.6	16.4	15.8	15.0	15.0	14.7
21	14.6	14.5	14.4	14.3	14.3	13.9	13.6	15.5	15.5	16.7	18.0	18.3	18.2	19.5	19.2	20.5	21.0	22.4	20.3	19.3	17.6	16.6	16.4	15.4
22	15.3	14.8	15.5	14.4	12.8	12.6	13.2	16.3	18.6	20.6	22.0	22.8	24.0	25.2	25.6	26.7	26.4	26.5	26.3	26.7	24.0	22.7	22.4	21.3
23	21.8	19.2	17.8	17.0	16.5	16.5	17.5	19.9	22.4	25.0	26.6	28.1	29.4	30.5	30.5	31.4	31.5	31.2	31.0	30.2	28.8	28.0	27.0	24.5
24	24.6	24.3	22.6	21.7	19.2	19.0	19.5	21.9	22.1	24.9	23.0	26.4	26.3	26.2	24.9	33.9	34.4	32.4	19.4	17.7	16.1	13.9	12.1	9.4
25	9.2	9.9	7.9	6.7	6.1	6.0	7.6	10.5	14.4	16.4	17.3	18.8	19.2	19.4	20.6	20.7	21.4	21.6	21.1	20.2	17.4	14.8	13.1	11.5
26	12.6	12.4	12.6	12.5	11.6	9.1	9.8	12.2	15.8	19.2	21.0	23.4	23.8	24.6	23.3	21.8	24.8	25.4	25.2	24.5	22.4	21.4	20.5	19.9
27	20.1	18.7	17.7	16.7	15.9	15.1	14.7	17.2	20.8	22.0	24.0	25.2	25.3	26.2	26.7	26.8	27.5	26.7	25.5	23.8	22.8	19.0	18.4	20.0
28	19.0	19.0	17.7	16.0	14.6	13.7	14.0	17.2	18.3	20.8	22.4	24.0	24.5	26.0	25.7	26.3	26.3	26.3	25.3	24.2	20.6	17.8	17.2	16.0
29	14.5	14.2	13.7	13.1	12.4	14.2	15.5	18.3	19.7	23.0	25.9	27.5	28.6	29.7	31.1	31.0	31.2	29.9	29.1	28.3	27.6	26.9	25.9	24.4
30	23.2	23.9	19.3	19.0	17.1	15.1	13.7	16.1	18.7	20.0	21.9	23.3	24.8	26.1	26.6	27.6	26.2	27.8	26.8	25.5	22.6	20.2	19.6	18.9
31	16.7	17.6	16.4	14.5	16.0	16.1	16.6	15.1	17.1	19.9	24.0	25.4	26.0	27.0	27.9	27.7	28.0	26.9	26.9	25.3	23.5	20.2	20.8	19.6

MEAN 17.5 17.1 16.4 15.6 15.1 14.7 15.3 17.1 19.1 20.8 22.4 23.6 24.3 25.3 25.4 26.0 25.9 25.7 24.9 23.8 22.2 20.3 19.3 18.2

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		JULY / JUILLET		19 80											
Temperature/Température Precipitation/Precipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	Celsius Millimètres (mm) Millimètres (mm) Centimètres (cm) Kilomètres/par heure (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		34.8	13	32.7	9	32.9	42.2	11	1936	26.1	22, 24	1884	109				
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		5.5	25	7.0	16	6.0	11.7	27 30	1943 1935	1.1	3	1972	109				
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		20.4		20.9		19.7	24.2		1936	15.4		1884	109				
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		23.7		23.1		80.3	197.4		1953	13.5		1875	109				
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE																	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		23.7		23.1		80.3	197.4		1953 1912	13.5		1875	109				
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		8		7		11	18		1938	5		1939	97				
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		12.2	20	10.4	23		133.6	12	1914				109				
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE													109				
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		12.2	20	10.4	23		133.6	12	1914				109				
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:																	
5 MINUTES		3.3	20	2.1	23		17.8	16	1968				22				
10 MINUTES		5.7	20	3.1	23		24.6	16	1968				22				
15 MINUTES		8.3	20	4.5	23		35.3	16	1968				22				
30 MINUTES		8.5	20	4.7	23		39.4	16	1968				22				
60 MINUTES		8.5	20	5.4	23		39.4	16	1968				22				
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		12.2	20	10.4	23		133.6	12	1914				109				
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		15.6		14.9		16.3	20.9		1952	10.9		1972	60				
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		N 41 E 41 NW 41 SSW 41	3 4 7 18	WNW 50	14	52	NW 68	10	1946				42				
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		N 41 NW 41 S 41 SSW 41	29 23 29 28	NW 81	14	86	SSW 127	14	1959				36				
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		326.1		333.8		310.8	367.7		1974	178.3		1912	81				
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.28		98.57		98.47	98.70		1956	98.20		1975	42				
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.37	21	100.02	16	99.55	100.04	4	1972				42				
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		97.32	23	97.56	14	97.15				96.28	1	1968	42				
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES														TEN / DIX (10)		YEARS DERNIÈRE ANNÉES	
YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECI- PITATION 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 CROISSANCE						
1971	30.6	4.4	16.4	115.1		115.1	16.3	NW 55	309.8	60.0	357.2						
1972	32.2	1.1	17.1	60.2		60.2	10.9	W 35	301.5	50.6	380.0						
1973	29.4	6.1	18.3	122.9		122.9	15.1	WSW 56	313.8	23.9	417.2						
1974	33.3	8.3	21.9	32.0		32.0	16.6	NW 48	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	NNW 46	348.4	15.7	454.8						
1977	31.6	8.3	19.4	85.3		85.3	16.1	ESE 46	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	WNW 50	333.8	12.4	493.4						
1980	34.8	5.5	20.4	23.7		23.7	15.6	N 41 E 41 NW 41 WNW 41 SSW 41 NNW 41 S 41	326.1	9.7	478.7						