

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST

ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

STARTING	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TIME (CST)
1	W 7	W 13	W 9	W 11	W 2	W 6	W 0	W 0	W 0	W 7	W 6	W 11	W 0	WSW 9	S 13	S 22	S 15	S 13	SSW 13	S 15	SSE 13	S 15	SSE 15	SSE 13	0804 S 44
2	SSE 17	SSE 20	S 17	S 22	S 26	SSE 22	SSE 19	SE 17	SE 19	SE 17	SSE 19	SSE 26	SSE 20	SSE 20	S 17	S 11	S 9	SSW 9	SSW 9	SE 4	SE 7	S 7	SW 6	0	
3	W 9	W 6	W 6	W 9	W 4	W 0	W 0	W 0	W 2	W 6	W 0	W 4	W 0	E 2	C 0	ENE 7	N 6	C 0	SSW 2	ENE 6	ENE 9	SE 7	SE 9	0	
4	SSE 9	SSE 13	S 15	S 13	S 17	S 19	SSE 19	S 19	S 20	S 19	S 17	SSW 17	SSW 20	SSW 19	S 15	S 24	S 22	S 20	S 26	S 19	S 19	S 22	W 26	2157 WSW 44	
5	SW 13	SW 9	SSW 13	SSW 11	SSW 7	W 11	W 9	W 17	N 17	N 20	N 26	N 22	N 28	N 26	NNE 30	N 20	NNE 22	NNE 17	ENE 20	ENE 15	NE 7	NNE 4	C 0	0	
6	C 0	C 0	C 0	C 0	C 4	C 7	C 0	C 7	S 13	S 15	S 20	S 28	S 17	S 13	S 24	S 28	S 22	SSE 24	SSE 22	S 26	S 19	S 20	S 24	1547 S 43	
7	SSW 20	SSW 19	SSW 15	SSW 13	SSW 13	WSW 9	WSW 11	WSW 15	WSW 17	WSW 17	N 20	N 19	N 20	N 13	NNW 33	NNW 26	NNW 22	NNW 31	NNW 33	NNW 19	NNW 9	NNW 9	NNW 11	1612 NNW 41	
8	NNW 11	NNW 9	NNW 13	NNW 11	NNW 11	W 13	W 9	W 15	W 17	W 17	NNW 17	NNW 13	NNW 19	NNW 9	N 9	N 11	ENE 11	ENE 15	ENE 17	NE 13	NNE 13	NE 7	C 0	1304 NNW 31	
9	E 4	C 0	SSW 7	S 4	S 7	S 7	SSE 7	SSE 9	SSE 11	S 13	S 15	SSW 15	SSW 11	S 9	S 11	S 19	S 13	SSW 17	SSW 17	SSW 31	SSW 20	S 17	S 19	1847 SSW 43	
10	S 9	C 0	ENE 6	ENE 9	SSE 6	C 6	C 0	C 6	W 7	W 24	W 26	W 30	W 30	N 30	N 24	N 28	N 20	N 19	N 15	N 6	N 6	NNE 7	NW 6	1313 NNW 44	
11	WNW 6	WNW 6	WNW 4	WNW 0	W 0	C 0	C 0	C 0	C 7	SSW 7	C 0	W 2	C 0	S 15	WSW 20	SSE 15	SSW 7	SSW 13	S 13	SSE 11	SSE 11	SSE 15	SSE 19	1614 S 31	
12	SSE 19	SSE 19	SSE 20	SSE 22	SSE 22	SSE 24	SSE 24	SSE 24	SSE 24	SSE 35	SSE 28	SSE 35	SSE 46	SSE 41	S 33	S 35	S 30	SSE 20	SSE 20	SSE 20	SSE 17	SSE 13	SSE 22	1325 SSE 61	
13	WSW 13	WSW 22	WSW 20	WSW 22	WSW 15	W 19	W 22	W 24	W 28	W 30	W 30	W 17	W 22	W 19	W 31	W 28	W 24	W 20	W 17	W 7	W 4	W 0	W 7	1258 WNW 43	
14	W 9	C 0	C 0	C 0	C 7	C 11	C 11	C 11	C 17	C 17	C 26	C 26	C 22	C 22	C 22	C 26	C 20	C 24	C 24	C 20	C 20	C 15	C 19	2313 SSE 39	
15	S 24	S 22	S 22	S 20	S 15	S 13	S 13	S 13	S 15	S 17	W 19	W 24	W 30	W 30	W 33	W 30	W 26	W 26	W 20	W 20	W 15	W 19	W 24	1500 WNW 44	
16	N 11	NE 7	NE 9	ENE 13	ENE 17	E 17	E 13	E 9	SE 6	SE 6	SE 6	ESE 7	ESE 7	E 11	E 4	SSE 13	C 6	C 0	SE 6	ESE 11	SE 4	SE 9	SE 11	7	

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST

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.	17.8	17.5	17.5	18.0	16.7	16.7	17.1	20.0	22.0	24.8	26.2	27.5	28.0	27.8	29.4	30.3	29.5	29.0	29.0	26.5	25.1	23.9	22.5	22.2
2.	21.6	21.1	20.4	19.9	20.3	20.3	20.7	21.4	20.8	21.0	22.6	24.7	26.1	27.4	29.2	29.5	29.7	29.6	24.9	25.0	23.2	21.7	20.4	20.1
3.	19.2	19.1	19.3	18.5	18.5	19.2	19.9	22.2	24.0	26.1	27.1	29.2	30.0	30.7	31.5	32.0	32.5	32.7	31.9	30.3	27.6	26.2	24.6	24.3
4.	23.6	23.4	23.1	22.3	22.0	22.2	22.6	24.5	27.0	28.6	30.6	32.6	33.6	34.8	35.7	36.0	35.9	35.7	34.8	32.8	30.1	29.4	29.3	25.9
5.	26.1	25.4	24.0	23.7	21.9	21.4	22.6	23.0	25.8	27.2	28.4	29.1	30.3	31.4	31.5	31.6	30.4	29.9	28.2	26.0	23.5	19.7	17.4	17.0
6.	16.0	14.0	14.4	14.5	15.4	14.8	16.3	18.0	21.5	24.9	27.3	29.6	31.3	29.0	30.8	32.0	32.7	33.0	32.4	32.0	30.0	29.0	28.7	28.0
7.	26.6	25.7	25.3	24.8	22.8	22.0	22.0	24.1	26.9	28.4	29.5	30.0	30.5	30.3	32.1	30.8	30.5	29.3	27.6	26.0	21.3	19.7	18.4	18.0
8.	17.7	16.0	15.1	15.2	14.8	14.7	13.7	17.2	20.8	22.5	24.8	25.0	26.2	25.7	26.2	25.6	26.0	25.5	24.6	22.6	21.6	19.8	18.0	16.8
9.	17.1	17.5	15.9	16.9	16.9	17.3	19.2	21.5	22.6	25.5	25.6	26.0	26.0	26.6	27.3	29.1	26.8	25.5	25.5	21.1	19.2	18.0	17.1	16.8
10	16.2	15.8	15.7	15.7	14.3	14.6	15.5	17.4	21.4	22.8	24.0	24.3	24.3	25.6	25.6	26.2	24.7	24.3	24.2	23.1	20.0	18.9	15.9	13.8
11	13.7	11.9	12.1	11.1	10.2	9.9	11.5	16.3	19.3	21.9	23.5	25.2	26.2	27.5	28.7	28.4	29.2	28.9	28.2	26.8	22.9	23.2	21.9	20.5
12	19.7	19.1	18.7	18.3	17.7	17.4	17.3	18.7	20.4	23.1	25.8	27.5	29.0	30.4	31.5	30.0	29.9	28.2	26.3	26.7	26.0	24.6	24.4	23.1
13	23.1	21.6	20.3	18.6	17.6	17.4	18.7	20.7	22.8	23.7	25.1	25.5	27.1	26.8	27.8	27.4	27.6	27.2	26.4	24.6	20.3	18.6	17.7	16.8
14	17.2	15.0	14.6	14.6	14.0	13.6	14.0	16.8	21.4	24.5	27.4	28.6	29.8	31.4	31.2	31.4	31.5	31.0	30.2	25.0	24.3	25.1	24.2	24.0
15	23.4	22.3	22.7	22.5	21.4	20.3	20.0	21.2	23.3	25.0	26.8	28.7	29.3	29.4	29.3	28.6	28.5	27.8	27.0	25.0	19.8	18.6	17.6	16.9
16	16.6	15.9	15.4	16.6	16.7	16.5	16.5	16.2	17.2	17.6	17.5	18.0	18.0	18.0	19.0	18.5	19.3	21.3	21.5	20.3	18.2	16.8	15.4	15.1
17	15.3	15.0	15.2	15.3	15.9	15.1	14.6	16.7	18.8	22.5	26.5	28.3	30.8	31.2	32.6	33.8	33.0	33.4	30.5	29.2	25.1	23.1	18.7	17.1
18	17.6	15.9	15.7	16.1	15.3	14.8	19.0	21.8	24.0	24.7	26.2	28.9	33.2	34.6	34.3	34.5	25.9	30.7	29.2	29.0	27.7	27.1	26.2	23.0
19	24.2	22.6	23.2	20.4	19.0	17.7	16.2	16.4	16.9	18.1	20.2	21.7	22.7	23.6	23.6	23.7	23.6	22.5	21.4	19.7	17.2	13.7	13.0	9.7
20	11.7	10.6	10.5	10.0	9.9	7.6	10.7	12.7	14.1	16.1	16.4	15.0	14.4	14.7	14.7	14.7	14.2	13.7	11.7	11.9	12.7	13.0	13.3	13.4
21	14.1	14.1	14.2	14.0	13.9	13.8	13.6	14.1	14.4	15.5	16.2	18.4	19.9	21.1	22.6	24.1	24.0	24.1	23.4	20.9	17.6	15.6	13.9	13.3
22	14.1	12.8	12.8	12.9	12.7	12.0	12.0	12.0	15.3	18.7	20.9	21.8	23.1	23.7	24.4	25.1	24.1	24.0	21.9	20.0	19.2	18.2	18.0	17.3
23	17.0	16.5	16.0	16.3	16.1	15.6	16.8	17.7	19.0	20.5	23.9	25.1	25.2	25.2	24.4	23.9	24.0	23.1	20.6	19.1	17.8	17.2	17.1	17.0
24	17.9	17.5	17.3	17.0	17.1	16.5	16.4	17.9	18.7	20.0	20.9	21.5	23.3	24.2	35.6	27.0	27.6	27.9	27.5	25.9	25.1	23.3	22.6	22.1
25	22.2	21.8	21.0	20.8	19.1	18.4	18.3	20.3	22.7	24.7	26.2	27.9	28.3	29.4	30.5	31.7	30.8	30.1	30.6	28.4	24.3	22.5	23.9	21.5
26	23.3	23.4	21.6	19.7	18.4	17.4	17.7	18.0	20.8	23.2	26.0	27.7	28.4	28.5	29.0	29.4	29.3	28.0	25.7	22.7	21.1	19.6	18.3	16.8
27	16.6	17.6	17.8	17.0	18.0	16.7	16.2	18.9	21.8	23.0	23.5	24.6	26.7	28.4	29.2	29.9	31.3	29.8	29.4	25.0	22.6	21.5	21.0	19.3
28	22.6	18.7	18.3	18.3	18.0	17.6	19.2	19.7	21.4	22.0	23.9	25.2	27.1	29.1	29.7	29.9	28.6	28.7	26.9	22.9	20.6	18.3	18.0	17.2
29	16.6	17.0	16.1	15.4	15.6	18.0	18.7	17.9	17.7	19.3	23.1	24.9	25.8	26.7	27.7	28.3	28.2	28.4	28.4	24.4	20.9	22.7	21.1	21.0
30	19.0	18.7	17.0	16.8	16.1	15.0	15.2	17.6	20.2	23.4	25.1	26.5	26.8	27.8	28.5	29.2	29.0	28.9	27.3	24.0	23.3	22.5	21.6	20.2
31	20.5	19.4	19.8	18.7	18.8	19.2	18.7	19.4	21.5	24.2	26.6	28.3	30.2	31.1	32.4	33.2	32.1	31.6	31.5	30.2	28.8	27.9	26.4	25.9

MEAN	19.0	18.2	17.8	17.4	17.0	16.5	17.0	18.6	20.6	22.5	24.3	25.6	26.8	27.5	28.6	28.6	28.1	27.9	26.7	24.7	22.5	21.3	20.2	19.3
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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	23.5	23.4	25.7	29.0	25.6	24.8	25.9	20.7	21.3	19.8	20.8	24.0	22.6	23.4	24.0	17.5

MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MEAN	23.2	24.9	19.5	12.8	17.4	18.2	19.4	22.1	24.8	23.1	22.7	22.6	21.8	22.5	25.7

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS				AUGUST/AOUT							1983
Temperature/Température Precipitation-Précipitation Snowfall-Hauteur de pluie Wind speed/Vitesse du vent Station pressure/Pression à la station	Celsius 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		36.5	4	29.5	14	32.8	40.6	7	1949	27.2	15 20	1885	112
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		8.8	20	0.7	27	3.7	8.8	20	1983	-1.1	31 27 28	1888 1891 1910	112
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		22.5		16.8		18.3	22.5		1983	14.4		1977	112
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		85.2		59.0		75.2	180.6		1876	3.3		1915	112
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE													
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		85.2		59.0		75.2	180.6		1876	3.3		1915	112
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		11		13		11	20		1977	1		1915	100
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		47.2*	20	16.8	18		84.6	16	1884				112
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE													
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		47.2	2	16.8	18		84.6	16	1884				112
MAXIMUM RAINFALL RECORDED IN HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		6.0	2	4.3	1		10.9	5	1981				26
10 MINUTES		7.8	2	6.9	1		19.2	1	1979				26
15 MINUTES		7.8	2	7.6	18		25.7	1	1979				26
30 MINUTES		12.4	20	8.8	18		35.8	15	1972				26
60 MINUTES		21.2	20	11.1	18		39.6	1	1979				26
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		48.4	20- 21	16.8	18		84.6	16	1884				112
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		13.0		16.7		16.4	22.0		1964	12.6		1972	63
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SSE46	12	ESE74	15	52	N 77	30	1944					45
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	SSE61	12	ESE98	14	83	NW122	18	1973					39
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		326.3		312.9		283.3	350.8		1967	160.5		1912	84
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE A LA STATION (kPa)		98.59		98.76		98.49	98.91		1957	98.14		1969	45
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE A LA STATION (kPa)		99.42	6	99.66	10	99.67	100.44	30	1967				45
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE A LA STATION (kPa)		97.42	19	97.32	2	97.04				95.82	4	1980	45
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. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRÉCIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE DAYS DEGRES-JOURS DE CHAUFFE	CROWING DEGREE DAYS DEGRES-JOURS DE CROISSANCE		
1974	31.7	3.3	16.7	109.7		109.7	17.5	NNW51	269.7	67.2	365.6		
1975	30.4	3.3	16.7	132.8		132.8	15.6	NW64	254.3	66.2	362.6		
1976	36.3	3.8	19.3	59.0		59.0	15.5	WNW43	307.9	30.7	442.6		
1977	28.9	2.0	14.4	89.6		89.6	13.9	WNW41	234.6	113.9	291.0		
1978	34.9	1.4	17.4	18.5		18.5	15.5	S44	268.1	65.2	384.6		
1979	29.5	4.0	16.4	76.1		76.1	15.2	SE46	284.7	69.9	352.6		
1980	30.7	3.5	16.9	109.8		109.8	13.8	NW52 SE52	236.1	47.8	370.0		
1981	32.3	7.8	20.1	103.6		103.6	13.4	N46	288.0	11.6	468.6		
1982	29.5	0.7	16.8	59.0		59.0	16.7	ESE74	312.9	74.3	366.6		
1983	36.5	8.8	22.5	85.2		85.2	13.0	SSE46	326.3	5.8	541.8		

48.4 * rain precp. August 20-21