

1982

INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST
 VELOCITY IN KILOMETERS PER HOUR

ALL TIMES ARE C.S.T.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	PEAK GUSTS	TIME (CST)
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		
STARTING	NE	NE	NE	NE	NE	ENE	E	E	E	ESE	E	E	E	E	ESE	ESE	ESE	E	SE	ESE	ESE	ESE	SE	SE	1927
24	17	19	20	20	13	19	13	20	22	19	20	20	15	17	22	20	22	22	20	30	22	19	19	43	
2	ESE	ESE	E	ENE	ESE	ESE	ESE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SE	SSE	ESE	ESE	ESE	SE	SE	SSE	0853
20	17	30	19	33	30	37	26	20	35	28	26	22	28	26	22	17	19	19	13	19	13	9	9	52	
3	S	W	W	W	W	W	W	W	W	W	WNW	W	WSW	W	WSW	W	S	S	S	S	SSE	S	S	S	
9	7	13	13	11	15	15	15	13	17	11	7	15	15	6	11	7	6	13	17	13	13	11	15		
4	SSW	SW	S	SSE	NW	C	SE	S	WSW	W	NNW	NW	NW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	1227
13	17	6	6	9	9	0	4	13	19	20	26	35	33	20	24	20	17	20	13	7	7	6	4	46	
5	NW	NNW	NW	C	C	C	C	SE	SE	C	SW	W	NW	NNE	NE	E	SE	SE	SE	SSE	ESE	SSE	C	C	
4	6	6	4	0	0	0	0	6	6	0	4	9	15	11	11	11	9	7	11	13	9	6	0		
6	ESE	N	SSE	SE	W	NW	WSW	C	C	SSE	SSE	SSW	S	SSE	SE	S	S	SSE	SSW	S	S	SW	SW	SE	0210
13	9	26	13	19	11	6	0	0	0	6	9	9	7	9	11	11	9	11	11	9	6	7	7	56	
7	S	S	S	S	S	S	WSW	SW	W	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	WNW	W	NW	NNW	NNW	NNW	WNW	1621
13	13	11	13	11	15	13	7	15	26	31	41	39	33	33	39	54	46	41	33	26	39	26	22	72	
8	W	NNW	NNW	NNW	NW	NW	NW	NW	NNW	NW	NNW	NW	NNW	N	NNW	NW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	1721
19	30	31	28	28	33	37	35	41	43	46	52	41	37	37	39	41	41	35	33	33	28	28	22	74	
9	NW	NW	NNW	NW	NW	NNW	N	NW	N	NNW	N	N	N	N	N	N	N	N	N	N	NNW	NW	N	N	0927
19	17	20	19	15	24	22	24	22	28	22	28	22	24	20	20	19	20	15	11	9	9	13	48		
10	NW	NNW	NW	NNW	NW	C	NNW	C	NW	NW	NNW	WSW	S	E	NNW	NNW	N	WNW	NE	ENE	E	F	SE	SSE	
11	15	9	4	4	0	4	0	2	6	2	9	2	7	6	2	4	2	6	9	13	9	9	7		
11	SSE	SSE	SSE	SSE	S	S	S	S	S	S	SSE	S	SSE	S	SSE	S	SSE	SSE	SSE	SE	SE	SSE	SSE	S	1555
6	9	7	9	13	11	17	17	24	15	24	26	24	35	37	33	35	35	30	19	20	24	30	33	54	
12	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	SSE	S	S	S	S	S	S	S	S	S	1348
30	30	35	31	33	31	28	30	30	41	37	35	35	48	28	33	31	31	31	31	30	31	28	28	65	
13	S	S	SSW	S	SSW	SSW	W	W	W	W	W	W	W	W	W	W	C	NW	C	SW	SE	ESE	SE	S	0008
30	26	20	17	17	17	11	19	13	13	17	17	19	22	22	9	7	0	6	0	2	11	9	13	41	
14	SE	SSE	SSE	SSE	SSE	WSW	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	S	S	S	SW	NE	ESE	ESE	2358
13	17	17	22	20	24	9	11	13	15	22	31	22	24	41	31	39	44	39	35	31	30	19	24	98	
15	ESE	SE	WSW	S	S	SSW	WSW	W	NNW	W	NNW	NNW	NNW	NNW	NNW	W	NW	NW	NW	NW	NNW	NW	W	ESE	0003
74	11	6	20	15	20	17	17	31	24	31	33	28	24	20	24	22	20	22	9	7	9	9	9	72	
16	W	NNW	W	C	W	C	C	C	N	NNE	SSE	C	NW	N	NE	C	NNE	NE	ENE	NE	ENE	E	F	F	
9	4	4	0	2	0	0	0	7	17	6	0	6	13	0	11	13	13	13	19	11	11	9	7		

WETBULB
HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST 1982

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.	16.2	14.4	13.2	12.2	11.4	10.7	10.5	11.5	12.5	14.1	15.9	16.8	17.8	19.1	20.4	20.1	21.2	21.2	20.8	20.1	19.0	17.6	17.2	16.7
2.	16.4	16.8	17.0	17.5	16.6	18.1	17.9	17.6	18.0	18.2	21.3	22.4	23.9	23.5	23.2	24.1	24.0	23.2	23.2	23.0	22.8	22.3	21.8	21.0
3.	21.7	20.8	19.2	18.0	17.0	15.7	16.0	17.6	20.0	21.6	23.3	24.8	25.5	26.5	27.2	28.1	28.5	28.0	27.8	26.0	23.8	22.3	21.7	20.0
4.	22.6	20.8	19.2	18.0	17.0	16.0	16.8	19.6	21.0	22.1	23.2	24.3	25.0	25.9	26.0	26.3	26.6	26.1	25.3	23.8	20.5	19.6	17.5	16.3
5.	15.5	15.0	13.3	12.3	12.2	12.0	12.0	16.9	20.9	23.0	24.9	25.4	25.2	23.5	25.5	26.0	27.0	27.1	26.5	24.3	24.0	22.5	21.8	22.0
6.	21.6	20.0	20.5	19.3	18.5	18.2	19.2	20.5	22.5	23.0	24.0	24.0	25.5	25.0	25.9	26.9	26.9	26.9	26.9	25.6	23.5	22.2	20.7	21.2
7.	20.8	21.2	20.5	19.8	18.8	19.0	19.3	21.1	22.9	22.1	23.5	24.2	24.7	24.9	24.8	23.9	23.7	21.5	21.3	20.2	18.8	17.3	16.2	15.5
8.	15.7	15.8	15.3	15.6	15.2	15.0	15.4	15.2	16.1	16.7	17.8	18.3	19.4	15.9	16.4	17.9	16.7	16.9	17.3	15.6	13.0	12.2	11.5	10.2
9.	9.4	8.8	9.0	8.9	8.3	8.2	8.4	10.0	11.4	13.2	15.2	16.3	15.1	16.0	16.2	16.9	16.9	17.1	17.0	15.4	11.6	10.9	8.9	8.5
10	7.3	7.9	7.3	6.0	5.0	4.9	4.9	8.0	11.7	14.7	16.5	17.6	18.0	18.6	20.2	20.7	20.5	20.8	19.7	18.5	15.3	14.7	13.2	11.7
11	11.1	10.7	10.0	9.7	9.4	8.9	9.0	10.6	14.2	17.7	20.1	21.1	21.8	22.5	23.1	23.5	23.3	23.2	22.8	20.8	18.8	18.2	18.3	17.0
12	16.5	16.2	16.2	15.8	15.6	15.3	14.8	16.2	17.6	19.6	20.1	20.3	20.3	20.7	20.0	18.0	18.0	18.1	18.0	17.8	17.8	17.6	17.6	16.8
13	17.0	17.0	16.7	16.2	15.8	15.0	14.2	15.3	17.4	19.7	21.3	23.2	23.5	24.5	26.0	26.1	26.4	26.5	26.4	25.4	22.0	20.2	17.4	16.8
14	15.8	17.7	18.2	18.3	19.2	18.7	18.6	18.6	20.0	20.9	21.2	23.0	23.6	25.0	26.5	29.0	29.2	27.4	26.4	24.8	23.4	23.4	23.2	16.8
15	17.1	18.1	16.8	16.9	17.1	17.7	17.8	19.1	20.3	21.0	21.8	22.7	22.3	22.6	22.9	22.9	23.3	22.7	22.0	20.7	17.7	16.2	15.2	15.1
16	14.1	13.1	12.0	11.8	11.2	11.5	11.4	15.4	17.9	20.1	22.1	23.5	24.2	24.3	25.1	25.5	25.4	25.0	24.0	22.8	20.7	19.7	18.1	18.4
17	16.2	14.8	13.1	12.3	12.6	12.9	13.2	16.7	19.2	21.7	23.8	24.5	25.5	26.3	27.2	27.8	28.0	27.9	26.8	24.6	21.9	19.3	19.2	18.6
18	19.2	19.4	19.0	18.9	20.2	19.8	19.1	18.8	20.1	21.5	23.3	24.2	26.7	27.5	28.2	28.5	27.8	27.3	28.0	24.9	22.0	20.9	19.9	18.0
19	16.4	17.0	15.1	15.1	13.9	12.7	13.9	16.3	18.5	21.3	23.0	24.6	25.0	25.1	25.3	24.9	24.6	24.3	23.3	21.0	18.2	17.4	17.0	17.2
20	16.8	15.5	14.8	14.0	13.8	13.4	13.2	15.0	17.8	21.0	23.2	24.5	25.3	25.5	25.4	25.1	24.7	24.4	23.6	21.0	18.0	17.5	16.2	16.3
21	15.9	17.2	16.0	16.0	16.0	16.0	14.7	17.2	17.9	18.2	19.0	18.7	16.8	19.3	21.8	21.8	22.6	21.7	19.7	19.1	18.1	15.1	14.4	13.9
22	13.5	13.0	13.2	12.9	12.0	11.1	13.2	16.2	18.2	20.3	21.6	22.0	22.0	22.5	18.3	16.0	15.0	14.9	15.3	15.1	14.0	12.9	12.0	11.5
23	10.8	10.8	10.2	9.4	9.8	9.5	8.5	11.2	13.7	15.9	17.7	18.9	19.3	20.6	20.8	21.6	21.0	19.9	18.4	17.0	17.0	16.5	15.5	14.9
24	14.5	13.4	12.8	12.0	11.8	11.2	11.5	12.9	13.9	13.9	15.4	15.6	15.5	16.0	17.8	17.1	16.8	16.7	15.9	14.5	12.4	12.2	13.0	12.2
25	12.5	12.0	11.0	11.6	12.3	11.0	8.0	10.5	10.8	10.7	12.2	12.0	12.9	13.2	12.4	12.7	12.3	11.2	10.9	10.0	6.8	7.0	4.5	5.3
26	4.0	3.4	3.5	4.0	4.4	4.2	4.7	6.7	8.3	8.8	9.6	9.5	9.0	11.8	12.9	14.0	12.8	12.9	13.1	11.4	7.2	5.8	5.0	4.1
27	3.0	2.4	1.8	1.9	1.7	1.7	1.7	3.0	6.7	9.9	10.7	11.2	12.5	12.6	13.4	13.6	13.5	13.5	11.9	9.6	7.7	5.8	3.7	3.6
28	3.3	3.7	4.0	6.0	4.9	4.9	3.8	7.0	9.9	12.9	13.1	14.0	16.0	17.7	18.5	18.0	18.6	18.1	18.0	15.4	14.5	14.1	13.8	13.5
29	13.0	12.2	11.8	11.7	11.3	10.6	11.4	11.9	11.5	11.9	14.7	16.1	17.1	17.0	18.1	18.3	18.2	17.9	16.9	14.3	10.2	9.2	7.8	6.5
30	5.9	4.7	4.2	3.7	4.0	4.2	4.9	6.6	9.5	11.3	12.6	13.7	15.0	16.6	16.6	16.4	16.9	16.9	16.1	14.3	12.8	12.2	11.9	11.8
31	12.0	12.1	11.8	12.0	12.2	12.5	12.4	12.8	13.3	13.8	15.1	15.7	16.3	18.2	20.6	21.6	22.5	22.8	20.8	18.3	15.5	11.9	12.1	11.5

MEAN	14.1	13.7	13.1	12.9	12.6	12.3	12.1	13.9	15.8	17.4	18.9	19.8	20.3	20.9	21.5	21.7	21.7	21.4	20.8	19.2	17.1	16.0	15.0	14.3
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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	16.3	20.6	22.5	21.6	20.8	22.7	21.1	15.6	12.4	13.5	16.9	17.7	20.4	22.0	19.6	19.1

MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MEAN	20.6	22.6	19.6	19.4	17.8	15.3	15.5	14.1	10.6	8.0	7.3	11.8	13.3	11.0	15.3

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		AUGUST / AOÛT 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/Précipitation	- 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	YEARS OF RECORD ANNÉES D'OBSERVATIONS	
Snowfall/Hauteur de neige	- Centimetres (cm)												
Wind speed/Vitesse du vent	- Kilometres per hour (km/h)												
Station pressure/Pression à la station	- Kilopascals (kPa)												
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE		29.5	14	32.3	13	32.8	40.6	7	1949	27.2	15 20	1885	111
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		0.7	27	7.8	15	3.6	7.8	12 15	1961 1981	-1.1	31 27 28	1888 1891 1910	111
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		16.8		20.1		18.3	21.6		1961	14.4		1977	111
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		59.0		103.6		75.2	180.6		1876	3.3		1915	111
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE													
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		59.0		103.6		75.2	180.6		1876	3.3		1915	111
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		13		8		11	20		1977	1		1915	99
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		16.8	18	56.6	5		84.6	16	1884				111
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE		--											
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		16.8	18	56.6	5*		84.6	16	1884				111
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		4.3	1	10.9	5		10.9	5	1981				25
10 MINUTES		6.9	1	12.8	5		19.2	1	1979				25
15 MINUTES		7.6	18	16.4	5		25.7	1	1979				25
30 MINUTES		8.8	18	18.9	5		35.8	15	1972				25
60 MINUTES		11.1	18	25.4	5		39.6	1	1979				25
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		16.8	18	58.2	5-6		84.6	16	1884				111
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		16.7		13.4		16.4	22.0		1964	12.6		1972	62
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	ESE74	15	N 46	31	52	N 77	30	1944					44
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	ESE98	14	ENE85	17	84	NW122	18	1973					38
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		312.9		288.0		283.3	350.8		1967	160.5		1912	83
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.76		98.57		98.49	98.91		1957	98.14		1969	44
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.66	10	99.58	16	99.67	100.44	30	1967				44
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		97.32	2	97.10	31	97.03				95.82	4	1980	44
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													
TEN (DIX)							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 DEGREES DAYS DEGRES JOURS DE CHAUFFE	GROWING DEGREES DAYS DEGRES JOURS DE CROISSANCE		
1973	32.8	5.0	19.9	65.5		65.5	13.5	NNW72	303.7	11.1	465.6		
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	W, 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	S 44	268.1	65.2	384.6		
1979	29.5	4.0	16.4	76.1		76.1	15.2	SE 46	284.7	69.9	352.6		
1980	30.7	3.5	16.9	109.8		109.8	13.8	NW52	236.1	47.8	370.0		
								SE52					
1981	32.3	7.8	20.1	103.6		103.6	13.4	N 46	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		