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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS AUGUST / AOUT

19 79

AT/A WINNIPEG INT'L AIRPORT / A L'AEROPORT INTERN. DE WINNIPEG

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: 239.6 METRES (ASL) ALTITUDE: MÈTRES (NMM)		STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE:														
DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT				BRIGHT SUNSHINE INSOLATION EFFECTIVE HEURES			
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION					
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%		mm	cm	mm		km/h		km/h					
1	29.3	13.0	21.2	0.0	16.2	94	49	1	40.8		40.8		25.2	SSW	SE 46	9.4				
2	25.2	11.1	18.2	0.0	13.2	91	56		Tr.		Tr.		22.6	N,WNW	N 37	10.3				
3	18.9	8.3	13.6	4.4	8.6	95	67		6.9		6.9		11.0	ESE	ESE 20	2.8				
4	21.4	10.2	15.8	2.2	10.8	98	55						11.3	N	NE 24*	9.2				
5	23.0	6.9	15.0	3.0	10.0	95	32						5.4	calm	NE 13	12.5				
6	26.2	14.0	20.1	0.0	15.1	78	56		Tr.		Tr.		16.7	WNW	SSE 30*	3.7				
7	23.8	11.1	17.5	0.5	12.5	82	45						16.3	WNW*	NNW 35	14.4				
8	23.2	7.7	15.5	2.5	10.5	90	41		Tr.		Tr.		7.3	S	SE 22	13.2				
9	22.8	13.4	18.1	0.0	13.1	90	59		0.4		0.4		22.6	N	NNE 37	5.4				
10	21.6	8.5	15.1	2.9	10.1	95	36						15.8	N	NNW 28	13.6				
11	24.4	7.1	15.8	2.2	10.8	87	35	1	Tr.		Tr.		17.3	WSW	SW 37	11.4				
12	22.4	11.3	16.9	1.1	11.9	91	48	1	4.0		4.0		20.6	NNW	NW 33	11.8				
13	13.9	5.5	9.7	8.3	4.7	91	64		Tr.		Tr.		27.4	N,NNW	N 44	4.7				
14	17.6	4.6	11.1	6.9	6.1	94	44						10.7	N,NNE	NNE 24	10.5				
15	20.7	4.0	12.4	5.6	7.4	92	40						14.5	S	SSW 31	10.2				
16	21.1	10.6	15.9	2.1	10.9	86	62	1					24.5	SSW	SSW 33	10.2				
17	25.5	14.2	19.9	0.0	14.9	94	58	1	0.2		0.2		13.5	S	S 28	13.3				
18	28.9	13.5	21.2	0.0	16.2	94	35						6.1	NW	NW 15*	12.8				
19	28.9	11.8	20.4	0.0	15.4	90	38						7.0	E	E 19	12.6				
20	29.5	11.0	20.3	0.0	15.3	93	35						8.4	ESE	ESE 17*	12.4				
21	21.2	15.7	18.5	0.0	13.5	96	63		7.4		7.4		11.5	SSE	SSE 17	0.0				
22	21.6	10.8	16.2	1.8	11.2	98	64		3.8		3.8		21.2	N	N 41	2.8				
23	13.1	9.5	11.3	6.7	6.3	98	84		4.8		4.8		25.0	N	N 33*	0.0				
24	21.6	6.9	14.3	3.7	9.3	97	54		Tr.		Tr.		17.3	NNW	NNW 30	9.6				
25	20.2	6.8	13.5	4.5	8.5	95	41						9.4	WNW	W 19	8.3				
26	22.9	10.2	16.6	1.4	11.6	87	37						7.4	calm	WNW 22*	10.1				
27	25.9	9.3	17.6	0.4	12.6	93	34						9.3	S	S 26*	13.1				
28	26.8	13.2	20.0	0.0	15.0	96	49		0.6		0.6		14.6	S,SSW	SSW 28*	8.3				
29	19.8	6.2	13.0	5.0	8.0	92	31						20.3	NNW	NNW 39	10.3				
30	22.0	4.6	13.3	4.7	8.3	89	37						13.1	SSE	SSE 22*	13.3				
31	25.6	13.6	19.6	0.0	14.6	96	59	1	7.2		7.2		18.5	E	SSE 28*	4.5				
MEAN MOYENNE	22.9	9.8	16.4	TOTAL 69.9	TOTAL 352.6	92	49	TOTAL 6	TOTAL 76.1	TOTAL	TOTAL 76.1		15.2	PREVAILING DOMINANTE N	MAXIMUM SE 46	TOTAL 284.7				
NORMAL NORMALE	25.0	12.2	18.7	37.5	423.4			6.0	73.7		73.7		17.1	S	51	276.2				
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS											DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÔTE DE NEIGE: cm				
BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMALE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE			
TOTAL FOR MONTH TOTAL DU MOIS	69.9	65.2	37.5	TOTAL FOR MONTH TOTAL DU MOIS	352.6	384.6	423.4	10	7	7	1	0	0	0	0	0	0			
ACCUMULATED SINCE JULY 1 DEPUIS LE 1 <sup>ER</sup> JUILLET	82.3	95.7	58.4	ACCUMULATED SINCE APRIL 1 DEPUIS LE 1 <sup>ER</sup> AVRIL	1297.7	1490.9	1462.4													

UDC 551.506.1 ( )

Aug. 7 - Prevailing Direction: NNW  
also.

Subscription Price: \$1.00 monthly; \$10.00 per calendar year (January to December)  
Prix d'abonnement: mensuel \$1.00; annuel \$10.00 (janvier à décembre)

Aug. 1 - Tornado at St. Francis-Xavier, also hail.

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		AUGUST / AOÛT		19 79									
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/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		29.5	20	34.9	11	33.3	40.6	7	1949	27.2	15	1885	108		
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		4.0	15	1.4	30	4.4	7.8	12	1961	-1.1	20	1888	108		
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		16.4		17.4		18.7	21.6		1961	14.4	27	1891	108		
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		76.1		18.5		73.7	180.6		1876	3.3		1915	108		
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE															
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		76.1		18.5		73.7	180.6		1876	3.3		1915	108		
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		10		8		10	20		1977	1		1915	96		
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		40.8	1	11.8	27		84.6	16	1884				108		
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE															
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		40.8	1	11.8	27		84.6	16	1884				108		
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:															
5 MINUTES		10.7	1	0.9	2		10.7	11	1962				22		
10 MINUTES		19.2	1	1.3	27		19.2	1	1979				22		
15 MINUTES		25.7	1	1.7	27		25.7	1	1979				22		
30 MINUTES		35.3	1	3.2	27		35.8	15	1972				22		
60 MINUTES		39.6	1	5.4	27		39.6	1	1979				22		
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		40.8	1	11.8	27		84.6	16	1884				108		
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		15.2		15.5		17.1	22.0		1964	12.6		1972	59		
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SE 46	1	S 44	6	51	N 77	30	1944					41		
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	WSW93	1	WNW70	27	84	NW122	18	1973					35		
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		284.7		268.1		276.2	350.8		1967	160.5		1912	80		
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.48		98.34		98.49	98.91		1957	98.14		1969	41		
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		100.22	14	99.41	22	99.68	100.44	30	1967				41		
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.69	31	97.04	11	97.05				96.08	25	1975	41		
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES										YEARS DERNIÈRE ANNÉES					
	TEN / DIX (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				
1970	35.6	3.9	18.9	74.9		74.9	16.3	S 48	343.9	37.8	433.9				
1971	33.9	3.3	18.8	17.0		17.0	15.1	SW43	314.2	32.2	430.6				
1972	36.1	3.3	18.5	103.1		103.1	12.6	WNW39	284.5	51.1	422.2				
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	SE46	284.7	69.9	352.6				

August mean temperature of 16.4 was below the normal of 18.7. The high for the month was 29.5 on the 20th and the low was 4.0 on the 15th which tied the record set in 1894. 76.1 MM of rain fell, mostly in showers and this compares closely to the normal of 73.7. There was one day of hail, some as large as golf balls reported in the vicinity of the city on August 1st. Six thunderstorms were recorded and 10 days with measurable precipitation.

284.7 hours of sunshine was recorded, the normal is 276.2. The mean wind speed was 15.2 as compared to the normal 17.1 Km/h.

## DAILY WEATHER SUMMARY FOR AUGUST 1979

## AT WINNIPEG, MANITOBA

1. Tornadoes in St. Francis-Xavier 6:35 p.m. Golfers were stunned by lightning. Some property damage. Some basements flooded. Sunny, clouding over in the late afternoon with thundershowers: 3:45 p.m. to 9:10 p.m. Showers 2:28 p.m. to 8:40 p.m. Hail: 6:46 p.m. to 7:05 p.m. Gusty winds to 93 Kms. Above normal temperatures and total precipitation of 40.8 MM.
2. Sunny with afternoon cloudiness. Near normal temperatures and moderate winds. Showers 2:49 p.m. to 4:27 p.m.
3. Mostly cloudy with showers 9:33 a.m. to 12:41 p.m., 2:00 p.m. to 11:33 p.m. Temperatures much below normal. Precipitation total 6.9 MM. Light winds.
4. Cloudy with light winds. Below normal temperatures. Heavy fog in the morning.
5. Sunny with below normal temperatures and mostly light winds.
6. Cloudy. Brisk winds in the morning becoming light. Above normal temperatures. Showers 8:19 a.m. to 8:33 a.m.
7. Sunny. Brisk NNW winds. Below normal temperatures.
8. Sunny. Light winds. Temperatures below normal. Showers 11:50 p.m. continued.
9. Cloudy with rain or showers to 7:15 a.m., 3:00 p.m. to 3:05 p.m. Brisk NNE winds. Temperatures near normal.
10. Sunny. Brisk NNW winds and temperatures below normal.
11. Clear overnight becoming cloudy in the afternoon. Thunder 9:40 p.m. to 11:01 p.m. Brisk SW winds gusting to 74 Kms. Showers 10:00 p.m. continued.
12. Cloudy with showers to 2:05 a.m., 6:13 p.m. to 8:40 p.m. Thunder 8:32 p.m. to 8:45 p.m. Below normal temperatures. Strong gusty winds.
13. Cloudy. Strong gusty north winds. Temperatures very much below normal. Drizzle or light rain 4:46 a.m. to 11:06 a.m. Showers 1:50 p.m. to 3:38 p.m.
14. Below normal temperatures. Partly cloudy. Mostly light winds. Smoke over city in evening.
15. Below normal temperatures. Partly cloudy. Mostly light winds. Smoke over city in morning.
16. Below normal temperatures. Partly cloudy. Thunder 10:32 p.m. to 11:20 p.m. Moderate winds with SSW gusts.
17. Above normal temperatures. Partly cloudy. Thunder 00:06 a.m. to 02:12 a.m. Showers 00:52 a.m. to 01:47 a.m. Smoke and light fog in morning. Mostly light winds. Severe lightning; house hit.
18. Above normal temperatures. Mostly sunny. Light winds.
19. Above normal temperatures. Mostly sunny. Light winds.
20. Above normal temperatures. Mostly sunny. Light winds.
21. Near normal temperatures. Cloudy. Showers, light rain, or drizzle 10:36 a.m. continued. Visibility restricted late morning, afternoon and evening. Light fog. Light winds.
22. Below normal temperatures. Mostly cloudy. Showers, light rain or drizzle to 12:04 p.m., 7:45 p.m. to 11:27 p.m. Visibility restricted in light fog. Moderate winds. Gusty north winds late evening.
23. Cool. Cloudy. Drizzle or light rain 5:26 a.m. to 10:42 a.m. Rain, drizzle or showers 1:36 p.m. continued. Moderate winds. Visibility reduced in morning and late evening.
24. Below normal temperatures. Drizzle to 00:11 a.m. Partly cloudy. Mostly light winds.
25. Below normal temperatures. Partly cloudy. Light winds.
26. Near normal temperatures. Mostly sunny. Light winds.
27. Near normal temperatures. Mostly sunny. Mostly light winds.
28. Above normal temperatures. Partly cloudy. Rain 2:16 a.m. to 3:37 a.m.
29. Below normal temperatures. Cloudy late morning and early afternoon. Moderate winds. Gusty NW winds late morning and early afternoon.
30. Below normal temperatures. Sunny. Mostly light winds. Lightning late evening.
31. Above normal temperatures. Partly cloudy. Thunder 01:24 a.m. to 3:45 a.m., 10:30 a.m. to 12:10 p.m., 7:30 p.m. to 9:14 p.m., 10:49 p.m. to 11:45 p.m. Showers 01:28 a.m. to 12:10 p.m., 7:56 p.m. to 9:25 p.m. Mostly light winds but strong SSE wind gusting to 81 in early morning.

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST 1979  
 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.	16.6	15.0	14.1	13.8	13.8	13.1	13.3	15.0	18.0	20.1	22.9	25.1	25.4	27.8	28.7	26.6	25.0	27.3	26.5	18.4	19.5	15.0	13.4	12.3
2.	17.0	16.9	16.6	16.6	15.5	15.2	15.6	16.7	19.1	21.2	22.6	23.1	23.8	23.5	24.0	20.9	21.8	21.3	20.1	17.7	16.1	13.5	12.0	12.1
3.	11.1	11.0	10.4	9.5	9.1	8.3	9.6	12.3	15.7	17.1	15.8	14.6	15.8	17.2	18.6	16.0	16.3	16.5	16.4	16.5	16.2	15.8	15.7	15.6
4.	14.8	13.6	13.1	13.4	13.5	11.9	12.1	14.6	15.6	17.2	18.5	19.9	19.8	19.6	19.1	19.9	20.1	20.7	20.0	18.7	17.0	13.2	11.6	11.5
5.	10.4	9.4	8.1	8.2	7.7	7.2	7.6	11.4	14.7	17.6	19.3	19.8	21.0	21.4	21.4	21.8	22.0	21.4	20.9	20.0	18.6	16.8	16.1	15.7
6.	15.7	15.1	14.8	15.1	15.7	15.1	15.2	16.4	18.5	19.6	20.5	20.8	21.5	21.8	22.5	23.3	23.5	25.0	25.6	24.8	22.0	22.0	19.1	17.6
7.	17.4	15.1	14.8	14.9	15.4	14.1	14.2	16.0	18.2	20.0	21.3	22.3	22.8	22.9	22.3	23.0	22.8	22.5	21.8	19.9	16.7	14.7	13.3	12.4
8.	11.1	9.5	9.3	8.7	8.3	7.8	8.3	14.0	16.7	18.5	19.5	20.2	20.6	21.8	22.0	22.9	22.4	22.6	22.3	21.8	20.4	20.0	19.6	19.4
9.	18.6	17.9	15.0	15.3	15.8	16.7	17.1	18.0	18.3	20.2	20.8	18.1	19.2	20.7	20.9	20.1	21.2	19.8	19.2	18.7	17.6	15.7	13.8	13.8
10.	13.4	12.4	11.9	11.7	10.3	9.8	9.3	12.0	15.1	18.0	19.3	19.2	20.1	20.6	20.4	20.0	19.7	19.7	19.4	17.6	13.9	13.3	13.3	10.2
11.	8.5	8.9	7.9	7.2	8.2	8.8	10.2	11.8	14.0	16.0	19.8	21.7	23.3	23.2	23.2	23.8	24.1	22.5	22.4	20.9	20.4	20.1	20.0	18.4
12.	17.8	16.5	15.8	15.6	15.2	16.4	15.4	17.0	18.3	19.2	20.8	20.8	20.2	21.2	21.0	21.5	20.8	21.4	19.5	14.8	14.4	12.8	11.7	11.3
13.	11.5	10.3	10.0	9.4	8.9	8.1	7.9	8.4	9.6	10.3	11.8	11.2	12.3	11.8	11.7	11.8	12.3	12.0	11.7	10.2	7.2	6.1	5.8	6.1
14.	6.2	6.2	5.8	5.3	4.8	5.5	5.7	6.2	6.5	11.2	11.9	12.8	13.8	15.7	15.4	15.0	16.4	16.5	16.0	14.8	12.7	9.2	7.6	6.8
15.	5.6	4.8	4.2	5.6	5.8	5.2	6.1	7.5	9.6	12.3	15.3	17.1	18.1	19.0	19.6	19.4	19.6	19.6	18.4	17.3	17.6	16.3	14.7	
16.	14.0	14.1	13.1	12.0	11.2	11.2	10.6	10.6	12.8	14.7	16.6	16.4	17.1	19.3	19.3	20.1	20.8	19.9	19.8	18.7	17.2	16.7	15.8	15.2
17.	15.2	15.2	15.4	14.8	14.4	14.5	14.5	15.5	18.3	17.2	19.4	20.9	22.8	23.9	22.6	23.7	24.7	25.0	24.6	23.1	20.1	19.1	16.5	16.4
18.	16.5	16.4	15.7	15.7	15.7	13.9	13.5	15.0	19.0	21.8	23.8	25.8	26.8	27.1	28.0	28.4	28.1	28.1	27.3	24.7	22.6	20.4	21.4	19.9
19.	18.5	18.8	17.4	16.3	12.8	11.8	12.5	16.2	20.5	22.8	24.9	26.4	26.6	27.0	27.4	27.9	27.3	27.5	26.7	24.6	23.3	19.2	16.3	16.5
20.	14.3	14.6	14.2	12.4	12.8	11.4	11.2	16.9	20.0	22.3	24.1	26.7	27.3	28.3	28.5	28.1	28.9	28.3	27.4	25.5	22.2	20.8	20.4	20.2
21.	18.9	18.9	17.2	17.2	16.6	15.8	17.6	18.0	19.1	19.3	20.2	20.8	20.1	19.9	20.2	19.4	19.5	19.1	19.1	18.9	18.6	18.3	17.9	17.9
22.	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	18.4	18.6	15.5	16.6	18.8	19.9	19.5	19.8	19.8	20.4	18.3	16.3	14.4	13.5	12.6	11.0
23.	10.8	10.4	10.3	10.3	10.3	10.4	10.0	10.0	10.0	10.0	10.9	11.0	11.9	12.4	11.9	11.9	11.7	11.7	11.5	11.0	10.5	10.3	10.5	10.0
24.	10.0	10.4	10.5	10.5	10.4	8.4	6.9	8.8	12.6	14.5	16.2	17.5	18.2	19.8	20.5	21.1	19.5	19.0	18.9	17.7	16.0	14.4	13.2	12.0
25.	9.8	9.4	9.5	8.3	7.9	7.0	6.8	8.0	11.6	14.5	16.6	17.4	18.0	17.8	18.6	19.3	19.2	19.1	19.3	16.8	15.2	13.9	10.6	11.1
26.	10.2	13.1	13.0	12.8	12.5	11.7	11.9	12.4	13.0	16.5	20.0	21.0	21.3	21.5	21.5	22.2	22.2	20.9	21.1	19.6	15.8	15.8	16.0	15.2
27.	14.4	10.3	9.3	9.8	10.0	10.1	9.6	11.2	13.7	16.7	19.5	22.0	23.2	24.1	24.5	25.5	25.0	24.6	23.4	20.9	20.8	18.6	18.5	18.2
28.	18.6	17.9	17.1	16.0	15.2	15.0	15.4	16.2	17.1	19.0	21.6	23.1	24.0	24.5	24.6	23.3	24.6	23.3	20.1	16.4	15.2	13.6	13.6	13.9
29.	13.2	14.0	13.4	13.8	14.4	13.2	13.2	14.8	15.9	17.1	17.5	17.1	18.7	18.0	18.4	18.1	18.5	18.1	16.6	13.1	10.6	7.1	6.4	7.1
30.	7.5	6.5	5.2	5.4	4.6	5.8	4.7	7.2	10.3	12.5	14.8	16.5	18.4	20.3	20.9	21.7	21.1	20.9	20.0	18.1	16.9	15.4	15.1	14.0
31.	14.4	15.5	14.8	13.6	15.3	14.2	14.6	14.3	16.1	16.5	17.9	18.6	19.0	21.6	22.4	23.7	24.9	24.7	24.8	24.0	23.4	21.1	20.4	20.3
MEAN	13.5	13.1	12.4	12.2	11.9	11.5	11.6	13.2	15.5	17.1	18.7	19.5	20.3	21.1	21.3	21.4	21.4	21.3	20.7	18.9	17.2	15.7	14.8	14.3

INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG

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.	13.5	12.5	12.0	11.7	11.5	11.1	11.3	12.5	14.3	15.6	17.1	18.7	19.6	20.5	20.8	20.2	21.0	21.7	20.5	17.8	18.7	17.2	17.3	16.7
2.	16.0	16.0	15.2	14.0	13.3	12.9	13.3	14.2	15.9	17.1	17.9	18.1	18.2	17.9	18.0	17.4	16.9	17.0	16.0	14.6	13.9	12.3	11.3	11.2
3.	10.4	10.3	9.8	9.1	8.8	8.0	9.2	12.0	13.1	14.2	14.2	13.5	13.5	14.0	14.8	15.0	14.9	15.0	14.9	15.1	14.6	14.5	14.5	14.2
4.	14.2	13.2	12.9	13.3	13.2	11.6	11.9	14.2	14.6	14.8	15.6	16.3	16.1	16.0	15.6	15.8	15.6	15.2	15.1	13.7	12.5	11.9	10.6	10.3
5.	9.4	8.7	7.7	7.5	7.1	6.8	7.0	9.9	12.5	12.4	13.1	12.4	13.1	13.1	12.8	12.5	13.8	13.2	12.9	13.4	13.4	12.8	12.6	12.4
6.	12.1	11.4	10.5	10.6	11.1	11.7	12.4	13.9	15.5	16.6	17.5	17.8	18.5	18.9	19.8	20.5	20.5	21.0	21.4	20.3	19.2	18.0	14.8	13.6
7.	12.9	11.8	11.1	11.6	12.1	11.3	11.3	12.6	14.0	15.5	15.4	15.8	15.2	15.5	15.6	15.9	15.8	15.7	15.4	15.1	13.6	12.3	11.4	10.5
8.	9.5	8.5	8.3	7.8	7.4	7.1	7.5	11.1	12.1	11.9	12.8	13.7	13.7	14.7	14.2	15.1	14.4	15.3	15.0	14.6	14.4	14.0	13.5	13.0
9.	13.6	13.7	13.6	13.4	13.2	14.0	15.2	16.5	16.9	17.9	18.1	15.8	16.8	16.0	16.0	15.2	16.6	15.4	14.8	14.9	14.1	12.5	12.9	12.8
10.	12.3	11.9	11.2	10.9	9.8	9.2	8.9	11.0	12.2	13.2	12.8	12.6	12.1	13.5	13.0	12.0	12.4	12.2	12.3	11.7	9.9	9.8	9.8	8.2
11.	7.3	7.5	6.9	6.3	7.3	7.5	8.1	8.8	10.5	12.4	14.1	14.5	14.6	14.5	14.2	14.5	15.1	14.2	14.4	14.7	14.2	14.1	14.4	14.4
12.	14.6	14.8	14.7	14.5	14.2	14.8	14.4	15.0	15.5	16.2	16.2	16.5	15.4	15.2	15.3	15.0	14.9	14.6	14.1	12.7	12.9	11.6	10.7	10.5
13.	10.6	9.5	8.7	7.6	6.9	6.7	6.8	6.3	7.4	7.8	8.8	8.4	8.9	8.5	8.9	8.5	9.0	8.9	8.7	7.7	6.1	5.1	5.0	5.3
14.	5.8	5.9	5.5	5.0	4.5	5.1	5.3	5.7	8.2	9.0	8.8	9.2	9.3	10.2	10.1	9.8	10.1	10.3	9.8	9.9	8.9	7.3	6.4	5.9
15.	4.6	4.2	3.6	5.1	5.0	4.5	5.1	6.5	7.8	9.3	10.6	11.0	11.6	11.9	12.0	12.4	12.1	12.6	12.4	12.3	11.9	12.1	11.6	10.8
16.	10.5	10.7	10.4	9.9	9.5	9.6	9.4	9.1	10.5	11.8	13.0	13.1	13.6	15.1	15.1	15.5	16.3	15.8	15.8	15.4	14.8	14.4	14.0	13.8
17.	13.9	14.0	14.2	13.9	13.7	13.8	13.9	14.6	15.2	15.8	17.1	17.3	18.8	19.2	18.7	19.6	19.7	19.2	19.4	19.2	17.9	17.1	15.1	15.8
18.	15.5	15.2	14.7	14.5	13.2	12.9	14.2	14.2	16.6	17.6	17.3	18.3	18.1	17.6	18.1	18.8	17.8	18.0	17.1	17.3	16.1	15.3	16.4	14.9
19.	14.3	14.5	13.9	13.2	11.6	10.8	11.5	14.0	15.6	16.2	16.8	18.0	17.5	17.4	17.7	18.4	18.0	18.0	17.9	18.0	17.7	16.4	15.0	15.2
20.	13.5	13.6	13.5	11.8	12.1	10.8	11.2	14.4	15.7	16.4	17.4	18.3	18.1	17.8	18.5	18.6	18.5	18.5	18.1	16.9	16.0	15.6	15.0	15.0
21.	14.4	14.6	14.3	14.8	15.1	14.5	15.8	16.1	16.8	17.0	17.7	18.3	18.8	18.2	18.4	18.3	18.5	18.6	18.6	18.3	18.1	17.9	17.5	17.5
22.	17.4	17.4	17.5	17.5	17.5	17.6	17.6	17.6	18.0	17.9	18.1	17.4	17.8	17.8	17.1	16.5	16.1	16.1	14.9	13.7	12.6	12.0	11.3	10.5
23.	10.4	9.8	9.5	9.5	9.5	9.5	9.6	9.6	9.6	9.8	9.7	10.1	9.9	10.7	11.0	11.1	10.8	10.8	10.2	10.2	9.7	9.9	10.1	9.8
24.	9.7	10.1	10.1	10.0	10.0	8.0	6.7	8.4	11.3	11.3	11.5	12.5	12.8	14.4	14.8	16.7	17.5	17.2	16.5	15.3	14.0	13.6	11.8	11.2
25.	9.2	8.9	9.0	8.0	7.5	6.6	6.5	7.5	10.8	12.5	12.0	11.2	12.0	12.2	12.6	13.3	12.1	12.0	11.9	11.6	11.5	10.7	8.6	9.2
26.	9.2	10.3	10.4	10.6	10.6	10.5	10.8	11.2	12.2	12.5	13.4	13.4	13.7	13.2	13.2	13.7	13.7	13.6	13.8	13.7	12.8	12.4	12.8	12.1
27.	11.6	9.6	8.6	9.0	9.2	9.3	9.0	10.3	11.7	13.4	14.5	15.0	15.0	15.0	15.3	15.5	15.2	14.8	15.4	15.4	15.2	13.1	14.7	14.6
28.	14.6	14.5	14.4	14.6	14.5	14.5	14.5	15.0	15.6	16.1	17.0	18.2	18.5	18.6	18.8	19.0	16.8	17.4	16.3	15.7	14.6	13.9	12.8	13.0
29.	12.7	13.2	12.7	12.8	12.4	11.9	12.4	13.4	12.9	13.1	12.7	12.0	12.5	12.0	12.4	12.1	11.1	9.8	10.6	8.4	6.6	5.4	4.5	5.2
30.	5.7	5.2	4.2	4.4	3.6	5.0	4.0	6.2	7.1	8.5	8.8	10.6	11.3	12.3	12.5	13.5	13.0	13.5	13.4	12.8	12.0	10.4	10.0	9.8
31.	10.4	11.2	11.8	12.6	14.7	13.7	14.3	14.0	15.4	15.7	16.5	16.4	18.0	18.8	19.2	19.9	20.6	20.8	20.9	20.6	20.1	19.5	17.6	17.6

MEAN	11.6	11.4	11.0	10.8	10.7	10.4	10.6	11.8	13.1	13.9	14.4	14.7	15.0	15.2	15.3	15.5	15.4	15.4	15.1	14.6	13.8	13.1	12.5	12.1
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ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST  
 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		
1	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	S	SSW	S	SSW	S	SSW	SSW	SSW	SE	S	SSW	S	SSW	
2	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	N	N	N	N	N	N	N	N	NNE	NNE	N	NNW
3	NNW	NNW	NW	NNW	NW	NNW	S	SE	SSW	S	SE	SSW	S	SSE	SSE	ESE	E	ESE	SE	SE	SE	SE	ESE	ESE	E	
4	E	E	ENE	NE	NW	N	NE	E	N	N	N	N	NNE	NNE	NE	NNE	N	N	ENE	N	ENE	N	ENE	N	NNW	
5	NNW	NNW	N	C	NE	C	C	C	C	NE	S	ESE	WNW	C	NE	E	S	S	SE	SSE	SSE	SSE	SE	SE	SSE	
6	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	
7	NW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	
8	ENE	ENE	C	NE	C	C	C	C	C	S	S	W	SSW	WSW	SE	S	S	SSW	SSE	S	ESE	SE	SE	SE	SE	
9	SSE	C	E	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
10	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	
11	W	C	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	
12	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
13	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	
14	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
15	C	C	C	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
16	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	

WSW93

19 CST

NNW59

15 CST

NNE31

15 CST

SSE50

09 CST

NNW50

13 CST

SSE35

00 CST

NNE50

12 CST

NNW39

15 CST

SW 74

23 CST

NNW52

17 CST

N 61

09 CST

NNE37

13 CST

S 44

14 CST

SSW52

14 CST

17	S	S	ESE	S	S	SSW	SSW	SSW	WSW	SSW	NNE	NE	NNE	N	N	NNE	NNE	C	W																S 44	01	CST		
28	26	15	22	20	22	24	22	17	13	4	2	4	7	22	6	9	15	15	11	4	11	0	6																
18	W	NW	NW	NW	NW	NW	W	NW	C	WSW	S	SSE	N	W	ESE	C	N	N	SSE	SSE	SSE	S	3																
4	7	11	13	15	6	6	2	2	0	2	2	2	9	4	2	0	13	9	6	15	7	6	4																
19	SSE	S	SE	SW	NW	ENE	ENE	E	ESE	SE	SE	SSE	SSE	ESE	E	E	ESE	E	E	E	ENE	ENE	SE																
2	6	7	7	4	4	2	2	6	4	4	4	6	4	6	7	13	9	19	17	13	9	6	7																
20	NE	NNE	E	ENE	NE	E	ESE	ESE	ESE	ESE	SE	ESE	SE	ESE	SE	SE	ESE	SE	SE	SSE	SSE	SSE	SSE																
9	2	4	4	2	6	4	7	9	4	4	7	17	9	9	11	17	13	9	11	11	11	11	13																
21	SSE	SSE	S	SSE	SE	SE	SE	SE	SE	SSE	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	S																
11	13	11	11	9	7	9	7	7	7	15	11	13	11	15	15	17	13	9	11	15	15	13	11																
22	SSE	SSE	S	C	N	NE	N	NNE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N																
9	7	6	6	0	7	9	7	6	17	24	19	20	22	33	41	30	39	37	39	37	33	30	30																
23	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NE	NNE	NNE	N	N	ENE																
28	26	26	24	26	26	26	28	31	30	31	33	33	30	28	24	22	22	24	22	22	19	19	17	2															
24	NE	NNE	NNE	NNE	N	NNE	NW	NNE	NW	NNE	NW	NNE	NW	NNE	NW	NNE	NW	NNE	NW	NNE	NW	NNE	NW																
3	17	11	15	11	4	7	13	15	13	22	19	22	20	20	24	30	20	13	26	26	26	15	11																
25	NNE	NW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W																
9	9	11	13	13	13	13	9	9	13	13	13	13	19	17	9	11	17	9	2	4	0	0	0																
26	C	S	S	C	S	SSW	SSW	C	W	NNE	W	NNE	W	NW	W	NW	NW	W	NW	W	C	C	E																
0	6	9	6	0	2	2	0	6	9	9	22	22	19	15	19	17	4	0	0	0	0	0	2	7															
27	C	ENE	E	E	SSE	C	S	S	SSW	SSW	WSW	W	W	SSW	SW	SSW	S	S	SSE	S	S	S																	
0	2	2	2	2	0	2	6	6	4	11	11	13	7	7	17	17	17	17	9	22	11	26	26																
28	SSW	SW	S	S	S	S	S	SSW	SSW	SSW	SW	S	SSW	SSW	WNW	NW	N	NW	NNE	C	N	C																	
28	20	11	22	17	17	13	17	15	13	15	15	19	19	11	19	11	19	28	15	6	9	0	4	0															
29	C	C	WSW	WSW	W	WNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE																
0	0	6	11	20	19	19	19	31	39	37	33	33	31	30	30	35	24	24	15	17	7	6	2																
30	ESE	C	C	C	S	C	S	S	SSE	SSE	SSE	S	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE																
6	0	0	0	0	6	0	4	6	7	19	20	22	22	20	22	22	17	13	19	19	19	22																	
31	SSE	SE	SE	SSE	SSE	C	E	N	SE	E	E	ESE	E	ESE	E	ESE	E	ESE	E	ESE	N	E	ESE																
24	26	19	28	28	0	11	11	19	17	15	9	24	26	26	22	24	20	9	20	9	20	9	28	7															
SUM																																							

MEAN 11.811.411.512.612.311.910.911.314.515.917.517.921.020.821.018.620.220.217.215.113.512.712.912.5

