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# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS AUGUST / AOÛT

19 78

AT/A WINNIPEG INTERNATIONAL AIRPORT / A L'AEROPORT INTERN. DE WINNIPEG, MAN

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: 239.6		METRES (ASL) MÈTRES (NMM)		STANDARD TIME USED: HEURE NORMALE UTILISÉE: CENTRAL											
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 DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION				
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%		mm	cm	mm	cm	km/h		km/h	HOURS HEURES			
1	21.5	10.1	15.8	2.2	10.8	82	40		0.4		0.4		16.2	NNW	N 28	11.2			
2	17.1	8.0	12.6	5.4	7.6	91	44		3.0		3.0		23.0	WNW	NW 43	9.0			
3	20.5	7.2	13.9	4.1	8.9	92	37		Tr.		Tr.		17.8	WNW	NW 33	12.4			
4	28.1	9.8	19.0	0.0	14.0	84	25						20.5	W	W 43	14.4			
5	21.5	9.5	15.5	2.5	10.5	90	41						12.6	NNE	NNE 24*	14.3			
6	32.4	10.0	21.2	0.0	16.2	90	34	1	1.8		1.8		20.2	S	S 44	11.1			
7	30.9	11.0	21.0	0.0	16.0	100	31						8.8	calm	W 26	11.7			
8	20.9	10.2	15.6	2.4	10.6	93	50						19.0	NW	NW 37*	5.4			
9	26.1	9.0	17.6	0.4	12.6	90	28		0.2		0.2		11.1	WNW	S 20	14.4			
10	28.8	16.0	22.4	0.0	17.4	73	44						15.5	S	S 31	8.3			
11	34.9	17.0	26.0	0.0	21.0	80	27						23.7	S	SSW 33*	12.2			
12	30.8	15.2	23.0	0.0	18.0	83	33						12.9	N	ENE 28*	13.9			
13	27.0	16.9	22.0	0.0	17.0	87	61	1	0.6		0.6		21.7	ESE	E 33	3.6			
14	25.3	15.2	20.3	0.0	15.3	95	78		Tr.		Tr.		14.2	NW	N 33	2.0			
15	19.8	9.0	14.4	3.6	9.4	95	65						15.1	N	NNE 28	0.9			
16	24.0	7.2	15.6	2.4	10.6	97	42						6.8	NNW	ENE 15	12.0			
17	28.5	14.1	21.3	0.0	16.3	85	34		Tr.		Tr.		18.8	SE	SE 30	7.9			
18	17.6	7.1	12.4	5.6	7.4	85	52						22.8	W	W 37	2.5			
19	23.1	8.0	15.6	2.4	10.6	88	35						13.6	S	S 30	13.1			
20	21.8	9.5	15.7	2.3	10.7	81	52						18.0	N,S	NE 28	7.8			
21	16.8	7.2	12.0	6.0	7.0	92	65		Tr.		Tr.		19.7	NNE	NE 37	4.5			
22	14.0	3.4	8.7	9.3	3.7	97	67		Tr.		Tr.		14.2	ESE	ESE 26	0.6			
23	17.2	11.7	14.5	3.5	9.5	96	80		0.3		0.3		15.4	ESE	ESE 26	0.5			
24	29.0	14.6	21.8	0.0	16.8	96	38						10.3	S	S 19	8.2			
25	28.7	13.3	21.0	0.0	16.0	96	47		Tr.		Tr.		9.2	ENE	NE 24	9.9			
26	29.0	17.5	23.3	0.0	18.3	93	42		0.4		0.4		8.7	SE	S 24	9.5			
27	23.3	13.2	18.3	0.0	13.3	98	45	1	11.8		11.8		11.3	N	W 37	4.3			
28	24.1	11.7	17.9	0.1	12.9	92	41		Tr.		Tr.		14.4	WNW	NNW 28	8.3			
29	18.7	4.8	11.8	6.2	6.8	91	36						22.2	NNW	NNW 37*	11.9			
30	21.0	1.4	11.2	6.8	6.2	97	35						5.8	calm	WSW 17	13.0			
31	26.4	9.9	18.2	0.0	13.2	88	30						17.0	SSW	SSE 26	9.3			
MEAN MOYENNE	24.2	10.6	17.4	TOTAL 65.2	TOTAL 384.6	90	44	TOTAL 3	TOTAL 18.5	TOTAL 18.5			15.5	PREVAILING DOMINANTE S	MAXIMUM S 44	TOTAL 268.1			
NORMAL NORMALE	25.0	12.2	18.7	37.5	423.4			6.0	73.7	73.7			17.1	S	52	276.2			
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS										DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:					DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE:				
BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	mm					cm						
								0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	50.0 OR MORE OU PLUS	0.2 OR MORE OU PLUS	1.0 OR MORE OU PLUS	2.0 OR MORE OU PLUS	10.0 OR MORE OU PLUS	50.0 OR MORE OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	65.2	113.9	37.5	TOTAL FOR MONTH TOTAL DU MOIS	384.6	291.0	423.4	8	3	2	1	0	-	-	-	-	-		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>ER</sup> JUILLET	95.7	125.0	58.4	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>ER</sup> AVRIL	1490.9	1606.8	1462.4	8	3	2	1	0	-	-	-	-	-		

UDC 551.506.1 ( ) \*Indicates more than one occurrence of same speed but not necessarily the same direction. 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)

\*July 13 - tornado at St. Laurent now confirmed.

COMPARATIVE RECORDS RELÈVÉS COMPARATIFS		MONTH AUGUST / AOÛT										19 78	
Temperature/Température — °Celsius Precipitation/Précipitation — Millimetres (mm) Rainfall/Hauteur de pluie — Millimetres (mm) Snowfall/Hauteur de neige — Centimetres (cm) Wind speed/Vitesse du vent — Kilometres/par heure (km/h) Station pressure/Pression à la station — Kilopascals	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	34.9	11	28.9	9	33.3	40.6	7	1949	27.2	15	1885	107	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	1.4	30	2.0	23	4.4	7.8	12	1961	-1.1	20	1888	107	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	17.4		14.4		18.7	21.6		1961	14.4	27	1891	107	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	18.5		89.6		73.7	180.6		1876	3.3		1915	107	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE													
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	18.5		89.6		73.7	180.6		1876	3.3		1915	107	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	8		20		10	20		1977	1	1	1915	95	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	11.8	27	18.6	29		84.6	16	1884				107	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE													
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	11.8	27	18.6	29		84.6	16	1884				107	
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES	0.9	2	7.4	6		10.7	11	1962				21	
10 MINUTES	1.3	27	7.9	6		16.5	15	1972				21	
15 MINUTES	1.7	27	8.9	25		20.3	15	1972				21	
30 MINUTES	3.2	27	9.4	25		35.8	15	1972				21	
60 MINUTES	5.4	27	9.9	6		35.8	15, 11	1962				21	
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	11.8	27	18.6	29		84.6	16	1884				107	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	15.5		13.9		17.1	22.0		1964	12.6		1972	58	
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	S 44	6	WNW41	10	52	N 77	30	1944				40	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	WNW70	27	NNW69	9	83	NW122	18	1973				34	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	268.1		234.6		276.2	350.8		1967	160.5		1912	79	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.34		98.35		98.49	98.91		1957	98.14		1969	40	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.41	22	99.52	17	99.67	100.44	30	1967				40	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	97.04	11	97.14	25	97.06				96.08	25	1975	40	
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													YEARS DERNIÈRE ANNÉES
YEAR ANNÉE	MAXIMUM TEMP. MAXIMALE	MINIMUM TEMP. MINIMALE	MEAN TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIPI. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREES-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREES-DAYS DEGRÉS-JOURS DE CROISSANCE		
1969	36.7	6.7	20.9	57.2		57.2	18.0	W 60	304.4	9.4	496.1		
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	SW 43	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	NW 64	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	WNW 41	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		

CLIMATOLOGICAL SUMMARY FOR AUGUST 1978AT WINNIPEG, MANITOBA

August weather was drier and slightly cooler than usual. Rainfall was 55 mm below normal with a monthly total of 18.5 mm. There were only three thunderstorms compared to the normal number of six during August.

Daily mean temperatures averaged 1.3 degrees below normal with a monthly mean of 17.4 degrees. The month began with a cool spell, but there was a change to hot weather at mid-month. Heating sent the maximum up to 34.9 degrees, August 11 to make it the hottest on record. Cooling came back, and August 22 afternoon was coolest on record for that date. The month ended on a cool note with the minimum of 1.4 August 30 the lowest on record for that date.

Sunshine was just 8.1 hours less than normal and wind speeds averaged 15.5 km/h compared to normal of 17.1 Km/h.

DAILY WEATHER SUMMARY FOR AUGUST 1978AT WINNIPEG, MANITOBA

1. Below normal temperatures. Partly cloudy. Showers 4:00 a.m. to 5:15 a.m. Mostly light winds but gusty NNW wind in the afternoon.
2. Below normal temperatures. Partly cloudy. Showers 4:33 a.m. to 12:20 p.m., 3:33 p.m. to 4:18 p.m., 8:04 p.m. to 8:26 p.m. Moderate winds. Gusty NNW winds in the afternoon.
3. Below normal temperatures. Partly cloudy. Light showers 4:20 a.m. to 4:23 a.m. Light winds except gusty NW wind in the afternoon.
4. Normal temperatures. Mostly sunny. Moderate winds. Gusty west wind in the afternoon.
5. Below normal temperatures. Mostly sunny. Light winds.
6. Near normal temperatures. Partly cloudy. Thunder: 6:15 p.m. to 10:41 p.m. Showers 5:25 p.m. to 8:01 p.m., 9:45 p.m. to 11:20 p.m. Moderate winds. Gusty south winds in the afternoon. Unofficial reports of heavy thunder-showers north of the city.
7. Above normal temperatures. Mostly sunny. Light winds except gusty NNW winds in the evening.
8. Below normal temperatures. Mostly cloudy. Light winds except gusty NNW winds in the afternoon.
9. Below normal temperatures. Mostly sunny. Showers 11:17 p.m. to 11:29 p.m. Light winds except gusty south winds late evening.
10. Warm. Partly cloudy. Light winds except gusty SSE wind early morning and gusty west in afternoon. Lightning early morning and late evening.
11. Warm. Record breaking high temperature. Mostly sunny. Moderate winds. Gusty south wind afternoon and evening. Lightning late evening.
12. Warm. Sunny. Mostly light winds. Lightning late evening.
13. Above normal temperatures. Mostly cloudy. Thunder 5:40 a.m. to 6:04 a.m., 8:18 p.m. to 9:45 p.m. Showers 05:16 a.m. to 6:31 a.m., 10:55 a.m. to 11:15 a.m., 2:55 p.m. to 5:40 p.m., 8:12 p.m. to 9:45 p.m. Moderate winds. Gusty SSE winds late evening.
14. Above normal temperatures. Mostly cloudy. Light winds. Rain 7:45 a.m. to 12:15 p.m.
15. Below normal temperatures. Cloudy. Light winds.
16. Below normal temperatures. Mostly sunny. Light winds.
17. Above normal temperatures. Partly cloudy. Showers 4:10 p.m. to 5:42 p.m., 11:50 p.m. to 11:56 p.m. Mostly light winds but gusty WNW in evening. Lightning in morning.
18. Below normal temperatures. Mostly cloudy. Moderate winds. Gusty west winds morning and afternoon.
19. Below normal temperatures. Mostly sunny. Light winds except gusty south wind in afternoon.
20. Below normal temperatures. Partly cloudy. Light winds except gusty north wind in the afternoon.
21. Below normal temperatures. Partly cloudy. Moderate winds. Gusty northeast winds in the morning. Light showers 9:32 a.m. to 9:35 a.m., 12:56 p.m. to 1:41 p.m.
22. Cool. Partly cloudy. Mostly light winds. Showers 10:54 a.m. to 11:10 a.m., 1:14 p.m. to 4:06 p.m. Mostly light winds. Record low maximum temperature.
23. Below normal temperatures. Cloudy. Light rain 5:40 a.m. to 6:05 a.m., 9:46 a.m. to 10:20 a.m. Drizzle 11:17 a.m. to 2:40 p.m., 7:45 p.m. to 10:20 p.m. Light fog. Visibility restricted in the morning and afternoon. Mostly light winds.
24. Above normal temperatures. Partly cloudy. Light winds. Lightning late evening.
25. Above normal temperatures. Sunny till late afternoon. Mostly light winds. Showers 11:58 p.m. continued. Lightning late evening.
26. Warm. Mostly light winds. Partly cloudy. Lightning in the morning. Showers to 3:38 a.m. Smoke over the city late evening.
27. Above normal temperatures. Cloudy till late afternoon. Thunder 5:47 a.m. to 9:45 a.m. Showers 5:27 a.m. to 10:01 a.m. Mostly light winds but gusty WNW wind during storm. Visibility restricted in morning due to showers and light fog. Precipitation variable from least at Airport of 11.8 MM to 66 MM in Transcona. Some power outages and flooded basements.
28. Above normal temperatures. Partly cloudy. Mostly light winds. Showers 2:20 p.m. to 2:39 p.m.
29. Below normal temperatures. Sunny. Moderate winds. Gusty north winds in the morning.
30. Cool. Record low temperatures. Sunny. Light winds.
31. Above normal temperatures. Partly cloudy. Mostly light winds but moderate winds late evening.

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.	16.8	16.9	16.6	16.2	15.9	15.5	14.1	17.5	17.5	18.3	19.7	18.0	19.3	19.6	20.0	20.6	19.6	19.9	19.3	17.6	14.8	11.7	11.0	12.0
2.	11.7	9.4	8.6	10.1	9.4	9.8	9.4	8.9	10.6	11.9	12.4	13.6	12.4	14.5	159.0	15.3	14.9	14.9	14.3	13.3	11.6	9.4	9.1	8.9
3.	8.0	8.3	8.6	7.5	7.6	8.6	9.0	10.6	12.8	13.4	14.4	17.1	17.3	18.0	18.5	19.6	20.3	19.8	19.9	19.2	16.7	14.6	13.2	13.3
4.	12.8	12.2	11.4	11.0	10.3	9.8	11.4	14.0	16.5	20.0	22.6	24.7	26.1	26.2	27.4	27.6	27.7	27.7	27.0	25.1	22.7	21.4	20.0	19.3
5.	16.0	16.2	13.8	12.0	10.8	9.5	10.0	13.6	15.4	16.7	17.9	18.7	19.7	19.8	20.5	20.2	21.0	20.1	19.9	18.8	16.1	15.1	13.6	12.3
6.	12.0	10.8	10.8	11.0	10.0	10.4	11.0	14.0	16.6	20.1	22.6	24.8	26.8	28.6	28.8	31.0	31.6	31.2	29.8	29.5	23.1	21.3	20.5	19.1
7.	17.0	16.0	14.5	14.0	12.5	11.0	11.2	14.0	17.6	21.4	24.2	25.9	27.1	28.6	30.0	29.7	30.1	30.5	30.0	25.9	21.5	20.0	18.8	16.5
8.	15.5	15.0	15.5	13.4	12.3	12.7	13.0	14.2	16.1	17.2	17.6	17.3	18.2	19.3	19.3	20.7	18.7	19.8	19.5	18.2	15.0	13.0	11.8	12.5
9.	10.4	11.2	10.0	10.2	9.2	10.0	11.0	12.8	16.7	19.3	21.2	21.9	23.1	23.6	24.6	25.0	25.7	24.8	24.1	22.6	19.7	18.8	19.3	18.9
10	17.2	15.3	17.9	16.6	16.0	15.0	16.5	17.1	19.5	21.0	22.5	24.4	25.9	27.0	28.0	27.7	26.6	25.6	25.8	23.9	20.5	18.8	19.8	21.3
11	21.5	20.5	19.5	19.4	17.5	17.3	17.6	19.1	21.8	24.3	26.1	27.1	30.0	32.8	33.3	34.3	34.2	33.3	32.0	30.6	28.1	26.1	24.2	24.0
12	22.9	20.2	18.4	17.8	16.1	15.7	16.5	18.4	21.8	24.1	26.1	28.3	28.6	29.8	29.7	30.1	30.0	29.2	28.6	25.7	20.4	19.0	18.3	17.7
13	17.1	17.2	16.9	17.2	18.1	18.6	19.4	18.6	20.3	22.5	25.1	24.1	25.2	25.1	25.3	26.2	26.1	26.0	25.8	25.8	26.0	24.5	25.7	25.5
14	25.1	23.3	18.8	18.9	18.6	18.2	17.9	18.1	18.1	18.4	18.3	17.7	18.3	19.7	19.8	19.6	20.0	19.8	19.8	19.4	18.0	17.7	17.2	16.5
15	15.2	14.5	14.5	15.2	14.9	14.5	13.9	14.9	15.5	16.0	17.5	18.2	18.0	18.3	18.1	19.0	18.6	18.4	18.0	17.0	15.2	11.6	10.2	10.5
16	9.0	8.3	8.4	8.1	7.5	7.3	7.8	10.5	14.6	16.8	18.2	19.2	21.0	22.0	23.0	22.0	21.6	22.0	22.3	20.3	18.0	16.2	15.6	15.6
17	16.3	15.9	15.4	14.9	14.6	15.1	15.8	16.8	18.6	20.7	21.5	21.5	24.3	25.5	26.5	26.7	24.7	22.2	19.8	19.5	16.7	15.0	14.2	16.2
18	16.1	14.6	14.1	13.8	12.8	12.6	12.9	13.3	13.7	14.1	14.4	14.8	15.6	16.0	16.0	16.6	16.9	16.7	16.8	14.6	10.6	9.1	8.9	7.9
19	8.3	10.1	10.1	10.0	8.3	9.6	9.6	11.2	12.3	13.7	14.7	15.2	17.5	19.0	19.7	21.8	21.8	22.5	22.4	20.5	19.0	17.9	18.5	17.7
20	17.6	18.1	18.1	17.5	16.3	15.5	16.2	15.9	16.6	17.4	17.8	19.2	19.4	19.6	20.2	19.6	20.0	20.2	18.8	16.2	14.3	12.5	11.5	10.8
21	9.5	9.5	8.1	8.2	8.3	6.3	8.5	10.0	11.4	12.4	12.0	14.0	14.7	15.0	15.1	15.8	16.0	14.8	14.0	12.0	11.5	11.3	11.2	11.0
22	9.9	9.1	7.0	6.1	3.5	3.5	3.8	7.5	9.2	10.7	11.3	11.6	11.9	12.4	12.4	12.7	13.2	13.7	13.8	13.5	13.0	12.4	12.2	12.0
23	11.7	12.0	12.0	12.3	12.2	12.2	12.1	11.8	14.0	14.9	15.2	15.7	15.2	15.2	15.9	16.0	16.5	16.5	16.7	17.0	15.7	15.7	16.0	15.7
24	15.8	15.8	15.8	15.8	15.3	15.0	14.7	14.6	15.0	15.8	17.4	20.7	22.8	25.2	25.5	28.0	28.3	28.3	27.9	25.3	22.7	21.2	21.9	20.9
25	19.0	16.6	16.8	14.8	13.3	14.4	13.3	16.2	18.0	20.5	23.0	24.5	25.8	26.5	28.0	28.2	26.7	24.6	23.7	21.9	20.4	19.3	19.1	19.3
26	19.0	17.7	19.0	18.2	17.8	18.4	18.2	18.3	21.4	23.1	24.5	24.7	26.7	26.1	26.9	28.1	27.6	28.4	27.6	25.2	22.9	22.2	20.1	19.7
27	19.5	19.0	18.3	18.5	19.1	18.8	18.7	17.5	17.1	16.7	17.1	18.7	19.5	20.0	21.3	21.4	23.2	22.1	22.0	20.0	16.5	14.2	14.5	14.2
28	14.2	11.7	12.8	12.5	12.3	13.2	12.8	13.6	15.6	18.0	19.6	20.7	22.3	22.6	21.6	19.6	21.0	21.5	19.5	17.7	16.5	15.0	14.2	12.9
29	13.2	12.4	12.2	12.0	11.4	11.7	12.0	13.0	15.1	16.6	17.6	16.6	17.5	18.4	17.6	17.6	17.6	16.8	15.6	12.9	10.3	8.8	7.2	6.6
30	4.8	3.2	3.0	2.8	1.8	1.6	1.8	4.2	9.4	11.1	13.1	14.8	16.4	17.8	18.6	19.4	20.1	20.4	20.0	18.3	14.9	14.1	13.5	12.4
31	12.8	12.5	11.9	11.6	10.8	10.1	10.4	12.0	14.4	17.1	19.6	22.1	24.3	24.8	25.8	25.1	24.1	23.9	23.7	21.5	20.6	20.0	19.5	19.0
MEAN	14.7	14.1	13.5	13.1	12.4	12.4	12.6	13.9	15.9	17.6	18.9	19.9	20.7	21.8	21.0	22.7	22.7	22.4	21.9	20.3	17.8	16.4	15.8	15.5

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF AUGUST 1978 PAGE 5

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	13.0	12.6	12.5	12.7	12.2	14.0	14.5	14.8	16.3	14.7	14.7	14.3	13.5	13.6	13.2	12.3	12.5	12.1	11.0	10.0	10.0	9.4	10.3
2.	9.8	8.4	7.8	8.5	8.1	8.6	8.1	9.3	8.8	9.6	9.4	9.1	9.8	9.8	9.3	9.5	10.0	9.6	9.0	8.5	8.1	8.1	8.1	7.5
3.	6.9	7.4	7.8	7.4	7.5	8.2	9.0	10.5	10.8	11.3	11.8	11.3	11.5	11.5	12.4	12.1	12.0	12.1	12.2	11.6	11.0	10.5	10.4	10.4
4.	10.0	9.2	9.3	9.0	8.7	8.5	9.2	10.7	12.1	13.9	15.3	15.5	16.0	14.9	15.4	15.6	15.3	15.4	15.8	15.2	14.4	13.9	13.4	13.4
5.	12.2	13.0	11.8	10.6	9.8	8.7	9.0	11.6	10.8	11.0	11.4	11.6	12.5	12.5	13.2	13.0	13.6	13.0	12.8	11.6	10.9	10.1	9.1	9.1
6.	9.0	8.4	8.8	8.8	8.5	8.9	9.5	11.3	12.4	16.2	15.0	16.2	17.0	18.0	18.4	19.6	20.2	20.3	20.2	18.7	19.1	16.8	17.0	17.0
7.	16.0	15.5	14.1	14.0	12.3	11.0	11.0	13.6	16.6	17.5	15.8	16.7	17.4	18.1	18.3	18.4	19.5	19.5	19.4	17.5	16.6	15.9	14.1	12.7
8.	12.2	12.5	13.2	11.4	11.8	10.9	11.5	12.4	12.3	13.2	13.1	13.7	13.8	14.0	14.0	13.4	13.4	13.1	12.8	10.5	9.8	10.1	10.1	10.1
9.	8.6	9.2	8.8	9.2	8.4	9.0	9.7	10.8	13.3	13.8	13.8	13.8	14.0	14.7	14.2	14.6	14.0	14.0	14.3	13.3	12.8	12.5	12.4	12.4
10	13.2	13.0	12.9	12.8	12.6	13.4	14.2	15.8	16.1	17.1	17.8	18.4	19.3	19.3	19.4	19.3	19.6	19.6	18.1	17.2	16.4	16.7	16.8	16.8
11	17.0	16.4	15.9	15.8	15.0	14.8	15.4	16.5	18.0	19.4	19.8	20.3	20.9	20.6	19.8	20.4	20.8	21.9	21.2	20.9	20.2	20.0	19.2	19.6
12	19.4	18.2	16.0	15.0	13.8	12.9	13.1	14.8	17.2	17.7	18.6	18.5	19.3	18.6	18.9	19.0	18.7	19.0	18.0	17.2	16.0	15.7	15.4	15.4
13	15.2	15.2	13.9	14.0	15.0	15.8	16.3	16.7	17.6	16.4	19.8	19.3	19.9	19.8	20.3	21.7	22.4	22.3	22.6	22.8	23.0	23.0	22.7	23.0
14	22.6	22.2	18.3	18.0	17.3	17.1	17.3	17.5	17.2	17.1	16.9	17.0	17.7	17.5	17.3	17.4	17.4	17.4	17.2	17.0	16.3	16.4	15.8	15.3
15	14.6	14.0	14.0	14.4	14.0	13.6	13.0	13.7	14.1	14.2	15.2	14.7	14.3	14.8	14.8	15.0	14.6	14.4	14.2	14.0	12.2	10.8	9.5	10.2
16	8.6	8.1	8.1	7.8	7.2	7.0	7.6	10.0	13.5	13.8	14.4	14.7	15.5	15.4	15.5	15.2	14.6	14.2	14.8	15.7	15.0	14.2	13.8	13.8
17	14.3	14.3	13.8	13.1	13.4	14.0	14.5	15.6	17.0	18.0	18.3	19.4	18.6	17.7	16.5	15.7	15.3	14.5	14.5	13.0	12.3	12.0	12.5	12.5
18	12.4	11.7	11.0	10.8	10.4	10.3	10.3	10.5	10.7	10.8	10.9	11.0	11.5	11.5	11.2	11.5	12.0	11.5	11.5	10.3	9.2	7.4	7.3	6.6
19	7.1	8.4	8.4	8.4	7.4	8.4	8.5	9.5	9.6	10.4	11.0	10.6	11.8	12.4	1.7	13.1	13.0	13.5	13.6	13.1	12.8	12.3	12.5	12.2
20	12.1	12.5	12.5	11.7	11.3	11.4	11.5	12.2	13.2	14.3	15.2	14.9	15.2	14.9	14.5	14.4	14.4	14.7	14.2	13.0	11.6	10.5	9.4	8.8
21	8.0	8.0	7.1	7.4	7.5	7.7	7.8	8.7	9.5	10.2	10.0	11.0	11.3	11.4	11.5	12.0	12.4	11.5	11.0	10.0	9.5	9.5	9.4	9.2
22	8.2	7.6	6.4	5.5	3.2	3.3	3.4	6.9	8.3	8.9	8.3	8.6	9.0	9.8	9.8	10.1	10.5	10.8	10.9	10.7	10.4	10.2	10.1	10.1
23	10.0	10.3	10.4	10.6	10.5	10.5	10.6	10.5	12.0	13.1	13.7	14.1	14.8	14.8	15.4	15.1	15.2	15.0	15.0	15.0	15.3	15.3	15.4	15.2
24	15.2	15.2	15.2	15.4	15.0	14.5	14.3	14.3	14.3	15.0	16.0	17.4	18.0	18.5	18.2	18.5	18.7	18.3	18.3	17.6	16.9	16.1	16.1	16.2
25	15.6	14.8	15.2	13.8	12.5	13.9	12.9	15.5	16.7	17.5	18.7	18.5	19.3	19.0	20.2	20.0	19.7	17.2	16.3	15.2	15.4	15.4	14.9	15.6
26	15.4	15.7	15.8	17.1	17.0	17.5	17.4	17.3	18.5	19.2	20.4	19.4	20.5	19.5	18.9	19.7	18.7	19.5	19.3	19.2	18.5	18.4	17.5	17.9
27	18.3	18.0	17.7	18.0	18.6	18.4	18.2	17.3	16.1	16.0	16.9	18.0	17.8	17.9	17.9	17.6	16.4	14.8	15.7	16.3	14.6	13.2	13.3	12.7
28	12.2	10.7	11.8	11.5	11.5	12.0	11.8	12.8	14.1	15.4	14.5	14.6	14.7	14.6	14.0	14.4	13.7	14.8	13.4	12.2	13.3	12.8	12.7	11.7
29	11.4	10.9	11.0	10.7	10.3	10.7	11.2	12.0	13.0	13.1	12.4	11.1	10.9	10.8	10.4	10.1	9.5	9.1	8.7	7.5	6.6	5.6	5.6	5.6
30	4.2	2.7	2.5	2.5	1.5	1.4	1.5	3.6	7.3	8.0	9.1	9.6	10.5	11.0	11.0	11.3	11.7	12.1	12.4	12.2	10.8	10.5	10.5	10.0
31	10.5	10.5	10.2	9.9	9.4	9.0	9.5	10.5	12.3	13.9	15.1	16.3	15.1	15.4	15.1	14.5	14.9	14.6	15.4	15.5	15.9	16.0	16.2	16.0
MEAN	12.4	12.1	11.7	11.5	11.1	11.1	11.2	12.3	13.4	14.1	14.6	14.8	15.2	15.3	14.9	15.4	15.4	15.3	15.2	14.7	14.0	13.3	13.0	12.8

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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 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	PEAK GUSTS	HOUR	
1	SW 11	WSW 19	WSW 17	WSW 13	WSW 9	WSW 6	WSW 7	WSW 15	WSW 22	NNW 19	NNW 19	NNW 19	NNW 22	NNW 26	NNW 22	NNW 28	NW 19	NW 22	NNW 19	NNW 11	NW 4	NW 7	NNW 7	NNW 17	CST	37	17
2	NNW 9	NNW 11	NNW 7	NNW 11	NNW 20	NNW 24	NNW 11	NNW 17	NNW 33	NNW 39	NNW 37	NNW 30	NNW 43	NNW 41	NNW 39	NNW 31	NNW 35	NNW 20	NNW 13	NNW 11	NNW 9	NNW 13	NNW 13	NNW 13	CST	63	12
3	NNW 7	NNW 15	NNW 13	NNW 20	NNW 11	NNW 17	NNW 15	NNW 20	NNW 22	NNW 30	NNW 30	NNW 33	NNW 30	NNW 28	NNW 24	NNW 24	NNW 19	NNW 7	NNW 7	NNW 4	NNW 11	NNW 13	NNW 13	NNW 13	CST	44	12
4	W 13	W 13	W 15	W 13	W 15	W 20	W 19	W 15	W 17	W 20	W 24	W 24	W 35	W 43	W 31	W 33	W 31	W 19	W 17	W 13	W 19	W 15	W 15	W 15	CST	56	14
5	NNW 15	NE 9	N 9	N 11	N 13	N 11	N 19	NNE 22	NNE 24	NNE 24	NNE 24	NNE 20	NNE 11	NNE 11	NNE 11	NNE 13	NNE 9	NNE 13	NNE 9	NNE 7	NNE 2	NNE 2	NNE 2	NNE 2	CST	59	15
6	SE 7	SE 9	SSE 13	SSE 7	S 6	S 11	S 13	S 19	S 19	S 30	S 39	S 35	S 31	S 41	S 37	S 44	S 30	S 20	S 24	S 4	S 7	S 6	S 4	S 4	CST	61	19
7	NNW 9	NNW 13	NNW 15	NNW 11	NNW 9	NNW 6	NNW 12	NNW 26	NNW 24	NNW 26	NNW 30	NNW 33	NNW 37	NNW 31	NNW 28	NNW 26	NNW 19	NNW 6	NNW 11	NNW 11	NNW 7	NNW 7	NNW 7	NNW 7	CST	50	15
8	NNW 9	NNW 13	NNW 15	NNW 11	NNW 9	NNW 6	NNW 12	NNW 26	NNW 24	NNW 26	NNW 30	NNW 33	NNW 37	NNW 31	NNW 28	NNW 26	NNW 19	NNW 6	NNW 11	NNW 11	NNW 7	NNW 7	NNW 7	NNW 7	CST	43	00
9	W 9	W 13	W 15	W 13	W 15	W 20	W 19	W 15	W 17	W 20	W 24	W 24	W 35	W 43	W 31	W 33	W 31	W 19	W 17	W 13	W 19	W 15	W 15	W 15	CST	44	02
10	S 24	S 31	SSE 26	SSE 20	S 19	S 19	S 15	S 19	S 22	SSW 22	SSW 17	SSW 7	SSW 11	SSW 11	SSW 17	SSW 7	SSW 4	SSW 7	SSW 4	SSW 6	SSW 6	SSW 6	SSW 6	SSW 6	CST	56	20
11	SSW 19	SSW 19	S 15	S 19	S 15	S 9	SSW 15	SSW 19	SSW 24	SSW 30	SSW 31	SSW 30	SSW 33	SSW 28	SSW 31	SSW 28	SSW 33	SSW 22	SSW 33	SSW 22	SSW 30	SSW 24	SSW 20	SSW 20	CST	37	20
12	SSW 17	SSW 7	SSW 4	SSW 2	SSW 4	SSW 9	SSW 9	SSW 9	SSW 6	SSW 4	SSW 9	SSW 9	SSW 11	SSW 15	SSW 19	SSW 17	SSW 15	SSW 22	SSW 28	SSW 26	SSW 28	SSW 22	SSW 22	SSW 22	CST	54	22
13	ENE 20	ENE 19	E 29	E 20	ESE 26	ESE 33	ESE 31	ESE 7	ESE 2	ESE 6	ESE 22	ESE 26	ESE 19	ESE 28	ESE 20	ESE 17	ESE 31	ESE 24	ESE 22	ESE 24	ESE 24	ESE 24	ESE 19	ESE 19	CST	37	08
14	SW 9	C 0	NW 11	NW 13	NW 11	NW 15	NW 15	NW 33	NW 17	NNW 19	NNW 17	NNW 19	NNW 20	NNW 15	NNW 22	NNW 22	NNW 15	NNW 19	NNW 17	NNW 6	NNW 0	NNW 6	NNW 6	NNW 6	CST	54	22
15	N 4	NW 2	NNW 11	NNE 13	NNE 13	NNE 11	NNE 11	NNE 11	NNE 11	NNE 11	NNE 22	NNE 24	NNE 26	NNE 28	NNE 24	NNE 22	NNE 24	NNE 22	NNE 19	NNE 11	NNE 6	NNE 7	NNE 7	NNE 7	CST	37	08



