

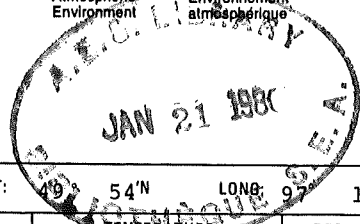


# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS DECEMBER / DECEMBRE

19 79

AT/A WINNIPEG INT'L AIRPORT / A L'AEROPORT INTER, DE WINNIPEG



LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: ALTITUDE: 239.6 M		STANDARD TIME USED: CENTRAL														
DATE	TEMPERATURE			DEGREE-DAYS		REL. HUMIDITY		PRECIPITATION			SNOW ON GROUND	WIND			BRIGHT SUNSHINE					
	MAXIMUM	MINIMUM	MEAN	HEATING	GROWING	MAXIMUM	MINIMUM	RAINFALL	SNOWFALL	TOTAL PRECIP.		AVERAGE SPEED	PREVAILING DIRECTION	MAXIMUM SPEED		BRIGHT SUNSHINE				
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm		cm	km/h	AND DIRECTION		HOURS				
1	-10.1	-17.0	-13.6	31.6	0.0	89	72		Tr.	Tr.	5	16.9	S	S 33*	7.6					
2	-1.3	-13.6	-7.5	25.5	0.0	87	76		Tr.	Tr.	4	42.3	S	S 56*	5.6					
3	2.0	-8.3	-3.2	21.2	0.0	87	68				3	28.3	W,WNW	NW54	7.9					
4	1.3	-8.8	-3.8	21.8	0.0	91	79	0.6	Tr.	0.6	2	15.5	SSE	SSE26	0.0					
5	0.0	-5.9	-3.0	21.0	0.0	95	80	Tr.	1.5	1.5	3	22.0	NNW	NNW46	3.2					
6	-0.6	-8.1	-4.4	22.4	0.0	94	79		Tr.	Tr.	3	15.8	NNE*	NNE30*	4.1					
7	-5.0	-18.3	-11.7	29.7	0.0	87	66		0.2	0.2	3	25.0	NNW	NNW48	5.1					
8	-8.0	-19.0	-13.5	31.5	0.0	88	53		2.0	2.0	3	13.9	ENE	SW 22	0.0					
9	-6.0	-10.9	-8.5	26.5	0.0	88	79		Tr.	Tr.	5	8.9	S	S 17	0.0					
10	-5.0	-15.3	-10.2	28.2	0.0	92	81	0.4	3.8	4.2	8	34.0	N	N 48	0.0					
11	-15.1	-27.8	-21.5	39.5	0.0	82	62		0.8	0.6	9	23.0	N	N 44	7.7					
12	-8.2	-27.1	-17.7	35.7	0.0	87	67		Tr.	Tr.	9	39.2	S	S 56*	0.0					
13	-6.8	-24.2	-15.5	33.5	0.0	91	61		1.6	1.6	10	25.0	W	NW 48	6.8					
14	-1.8	-24.9	-13.4	31.4	0.0	86	62		0.2	0.2	10	23.8	S	NW 43	0.0					
15	-13.9	-27.8	-20.9	38.9	0.0	80	67		0.2	0.2	10	33.9	NNW	NNW48	2.5					
16	-19.2	-28.4	-23.8	41.8	0.0	86	61				10	21.3	W	SW 30*	7.9					
17	-11.8	-27.0	-19.4	37.4	0.0	87	71				10	8.5	SE	SE 19*	2.3					
18	-4.5	-13.5	-9.0	27.0	0.0	85	71				10	21.9	SE	SSE31	0.0					
19	0.0	-14.0	-7.0	25.0	0.0	98	67				10	22.8	S	S 41	1.6					
20	1.3	-3.0	-0.9	18.9	0.0	92	77				10	24.3	S	SSW31	5.3					
21	-2.3	-8.9	-5.6	23.6	0.0	96	88				9	6.0	N, calm	N 15	3.9					
22	-2.8	-4.5	-3.7	21.7	0.0	97	94		Tr.	Tr.	9	1.4	calm	NNE 6	0.0					
23	-3.8	-5.7	-4.8	22.8	0.0	96	93		Tr.	Tr.	9	3.2	calm	NW 7*	0.0					
24	-5.6	-6.5	-6.1	24.1	0.0	94	92		Tr.	0.2	9	5.4	SSE	S 11	0.0					
25	-4.0	-7.0	-5.5	23.5	0.0	94	90		Tr.	Tr.	9	21.1	S	S 50	0.0					
26	-4.0	-12.9	-8.5	26.5	0.0	94	85				9	5.6	SSW	S 15	4.8					
27	-3.2	-14.8	-9.0	27.0	0.0	92	79				9	13.5	S	S 22	6.9					
28	-1.0	-10.1	-5.6	23.6	0.0	89	77				9	13.1	SW	SW 19*	7.6					
29	-3.2	-12.8	-8.0	26.0	0.0	92	74				7	14.8	S	SSW22	6.7					
30	-3.0	-14.6	-8.8	26.8	0.0	90	72				7	14.4	SSW	S 19*	6.8					
31	-7.8	-13.5	-10.7	28.7	0.0	95	88		Tr.	Tr.	7	4.3	NW	NW 13	0.0					
MEAN MOYENNE	-4.9	-14.7	-9.8	862.8	0.0	90	75	TOTAL	TOTAL	TOTAL		18.4	PREVAILING DOMINANTE	MAXIMUM S 56	TOTAL 104.3					
NORMAL NORMALE	-9.2	-18.2	-13.7	983.0	0.0	90	72		0.8	23.9	22.9	19.5	S	55	86.2					
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	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C		THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL 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		862.8	1109.1	983.0	TOTAL FOR MONTH TOTAL DU MOIS		0.0	0.0	0.0	10	4	2	0	0	9	4	2	0	0	
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET		2215.7	2491.7	2246.0	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL		1574.6	1857.9	1787.8	10	4	2	0	0	9	4	2	0	0	

UDC 551.506.1 ( ) Dec. 6th - \*NE, E, WSW, W

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

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Prix d'abonnement: mensuel \$1.00; annuel \$10.00 (janvier à décembre)

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		DECEMBER / DECEMBRE		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 -- Millimetros (mm) -- Millimetros (mm) -- Centimetros (cm) -- Kilometros/par hour (km/h) -- 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		2.0	3	0.3	4	2.6	11.7	6	1939	-5.0	4	1927	108	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		-28.4	16	-34.7	27	-32.7	-18.3	10	1877	-47.8	24	1879	108	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		-9.8		-17.8		-13.7	-3.4		1877	-25.9		1879	108	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		1.0		Tr.		0.8	23.4		1877	Nil	(Several)		108	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE		10.5		20.4		23.9	101.3		1909	0.5		1877	108	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		11.3		20.9		22.9	101.3		1909	2.5		1892	108	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		10		9		11	17		1955	2	(several)		96	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		0.6	4	Tr.	12		15.2	22	1877				108	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE		3.8	10	9.7*	28		30.5	26	1916				108	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		4.2	10	10.0*	28		30.5	26	1916				108	
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:														
5 MINUTES														
10 MINUTES														
15 MINUTES														
30 MINUTES														
60 MINUTES														
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		0.6	4	Tr.	12		15.2	22	1877				108	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		18.4		12.5		19.5	24.6		1943	12.5		1978	59	
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		S56	2,12	S 57	29		NW74	(several)					41	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		S85	2	S 85	29	75	NW100	11	1946				33	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		104.3		139.5		86.2	139.5		1978	31.7		1920	80	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.62		98.35		98.77	99.12		1936	98.29		1953	41	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		100.61	16	100.12	31	100.65	101.22	10	1957				41	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		95.50	4	95.14	4	96.39				94.71	17	1967	41	
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													TEN (10) 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 DE CHAUFFE	GROWING DEGREES-DAYS DE CROISSANCE			
1970	0.0	-33.9	-17.3	2.5	27.7	23.4	19.5	WNW56	106.1	1092.8				
1971	0.6	-30.0	-15.2	0.3	7.1	5.8	19.2	NW 42	79.9	1028.9				
1972	-3.9	-32.8	-19.2	0.3	27.7	25.4	16.6	S 51	121.3	1155.0				
1973	1.1	-37.8	-15.8	6.4	15.7	19.1	16.7	NNW51	87.9	1046.7				
1974	4.4	-21.1	-8.6	Tr.	18.5	13.0	16.1	N 45	94.6	822.8				
1975	5.9	-33.7	-14.1	Tr.	18.9	17.1	17.9	ESE47	96.0	995.4				
1976	3.0	-34.7	-18.5	Nil	20.6	18.2	19.1	S 52	106.4	1131.3				
1977	1.8	-33.8	-17.4	1.6	18.3	18.8	16.9	NNW41	84.8	1098.7				
								N 41						
1978	0.3	-34.7	-17.8	Tr.	20.4	20.9	12.5	S 57	139.5	1109.1				
1979	2.0	-28.4	-9.8	1.0	10.5	11.3	18.4	S 56	104.3	862.8				
NOTE: Corrections from previous Monthlies: July 7, 1979 - Maximum: 24.4 not 24.7														
January 16 - Minimum: -33.6 not -36.6														

## CLIMATOLOGICAL SUMMARY FOR DECEMBER 1979

AT WINNIPEG, MANITOBA

December was very mild and dry. The temperature averaged 3.9 degrees above normal while half the normal amount of precipitation fell on the city. Temperatures were above normalevery day during the last two weeks of the month. A new high minimum temperature was established at -3.0 degrees on the 20th, breaking the old record of -4.4 degrees set in 1891 and tied again in 1911. The highest temperature recorded during December was 2.0 degrees on the 3rd and the lowest -28.4 degrees on the 16th. Sunshine was abundant, 104.3 hours compared to the usual 86.2. This, combined with lighter than usual winds made December a very pleasant month.

## DAILY WEATHER SUMMARY FOR DECEMBER 1979

AT WINNIPEG, MANITOBA

1. Below normal temperatures. Mostly sunny. Light snow 00:05 to 03:20 a.m. Ice crystals 4:55 a.m. to 5:50 a.m. Mostly light winds but gusty south winds in the evening.
2. Above normal temperatures. Sunny becoming cloudy late afternoon. Ice pellets 6:50 p.m. to 7:45 p.m. Strong south winds gusting to 85 Km/h. Blowing snow 3:20 p.m. to 8:45 p.m. Drifting snow. Visibility reduced in afternoon and evening.
3. Mild. Sunny. Moderate west to northwest winds gusting to 69 Km/h.
4. Mild. Cloudy. Ice pellets 11:33 a.m. to 11:45 a.m., 2:23 p.m. to 3:31 p.m. Freezing rain 11:48 a.m. to 12:26 p.m., 2:34 p.m. to 8:10 p.m. Snow 12:26 p.m. to 2:27 p.m. Rain 2:23 p.m. to 2:34 p.m., 8:10 p.m. to 9:25 p.m. Roads icy, numerous accidents, some power outages. Mostly light winds.
5. Still mild. Partly cloudy. Snow or snow pellets 01:15 a.m. to 6:25 a.m., 1:12 p.m. to 5:40 p.m. Freezing drizzle 2:00 a.m. to 2:53 a.m. Blowing snow 2:35 a.m. to 7:10 a.m. Visibility reduced in morning. Moderate NNW winds gusting to 72 Km/h. Airport closed for awhile, power outages.
6. Mild. Partly cloudy. Light snow 6:22 p.m. to 6:35 p.m. Smoke 11:40 a.m. to 12:10 p.m. Mostly light winds.
7. Near normal temperatures. Partly cloudy. Snow or flurries 1:35 a.m. to 10:57 a.m. Visibility reduced. Moderate NNW winds gusting to 56 Km/h. Drifting snow.
8. Slightly below normal temperatures. Cloudy. Snow or ice crystals 6:15 p.m. continued. Mostly light winds. Visibility reduced in the evening.
9. Above normal temperatures. Cloudy. Snow to 3:35 a.m., 10:24 p.m. continued. Light winds. Visibility reduced late evening.
10. Above normal temperatures. Cloudy. Ice pellets 2:37 a.m. to 5:00 a.m. Freezing drizzle 2:42 a.m. to 2:52 a.m., 9:50 a.m. to 11:50 a.m. Freezing rain 2:52 a.m. to 5:13 a.m. Snow to 8:15 a.m., 10:05 a.m. continued. Blowing snow 2:40 p.m. to 6:50 p.m., 8:25 p.m. continued. Visibility severely reduced most of the day. Moderate north to NE winds gusting to 61 Km/h. Roads dangerous especially in the country. Airport closed for awhile. Drifting snow.
11. Cold. Mostly sunny. Snow or ice crystals to 7:41 a.m. Blowing snow to 7:40 a.m. Visibility severely reduced in morning. Moderate north winds gusting to 59 Km/h. Drifting snow.
12. Below normal temperatures. Cloudy. Ice crystals 2:00 a.m. to 5:45 a.m. Snow 8:50 p.m. continued. Blowing snow 10:28 p.m. continued. Moderate south winds gusting to 81 Km/h. Drifting snow. Visibility restricted especially late evening.
13. Below normal temperatures. Mostly sunny. Snow to 4:13 a.m. Ice crystals 4:13 a.m. to 4:55 a.m. Blowing snow to 5:40 a.m. Moderate west to NW winds gusting to 74 Km/h. Visibility severely restricted in morning. Drifting snow.
14. Above normal temperatures. Cloudy. Snow 5:30 a.m. to 7:45 a.m. Moderate winds gusting to 63 Km/h. Visibility restricted in morning. Leishman plane missing somewhere from Sandy Lake to Thunder Bay.
15. Cold. Mostly cloudy. Snow 4:14 a.m. to 1:24 p.m. Blowing snow 5:45 a.m. to 2:40 p.m. Visibility severely restricted in morning. Moderate northwest winds gusting to 69 Km/h. Drifting snow.
16. Cold. Sunny. Moderate winds gusting to 48 Km/h.
17. Below normal temperatures. Partly cloudy. Fog in the morning. Visibility slightly restricted. Light winds.
18. Above normal temperatures. Cloudy. Moderate south winds.
19. Mild. Mostly cloudy. Moderate south winds gusting to 56 Km/h. Light fog in late evening. Visibility restricted.
20. Mild. Mostly sunny. Moderate SSW winds gusty in early morning. Drifting snow. -3.0 was the highest minimum ever recorded for that day.
21. Mild. Partly cloudy. Light fog in morning. Heavy fog 4:03 p.m. continued. Visibility severely restricted. Light snow or ice crystals 7:50 p.m. to 9:00 p.m. Light winds.
22. Mild. Cloudy. Heavy fog to 3:43 a.m., 6:09 a.m. to 9:30 p.m. Light fog the rest of the day. Visibility severely restricted. Freezing drizzle 01:10 a.m. to 7:46 a.m., 8:00 p.m. to 11:49 p.m. Snow 4:09 a.m. to 4:21 a.m., 11:33 a.m. to 12:45 p.m., 6:40 p.m. continued. Snow grains 4:21 a.m. to 5:05 a.m. Light winds.
23. Travelling dangerous 21st, 22nd, 23rd due to fog and freezing drizzle; some flights delayed. Mild. Cloudy. Heavy fog 2:25 a.m. to 2:51 a.m. Light fog rest of the day. Visibility restricted. Freezing drizzle 00:45 a.m. to 12:13 p.m., 6:55 p.m. continued. Snow to 00:15 a.m. Snow grains 3:55 a.m. to 3:15 p.m. Light winds.
24. Mild. Cloudy. Freezing drizzle to 5:50 a.m. Snow grains 8:45 a.m. to 2:20 p.m. Light fog. Visibility slightly restricted. Light winds.
25. Mild. Cloudy. Freezing drizzle 9:00 a.m. to 9:49 a.m. Moderate south wind gusting to 61 Km/h. Blowing snow 8:50 a.m. to 9:08 a.m. Light fog in the afternoon and evening. Visibility restricted. Drifting snow in the morning.
26. Mild. Mostly sunny. Light winds. Heavy fog 8:13 p.m. to 9:09 p.m., 11:05 p.m. to 11:52 p.m. Light fog most of the day. Visibility restricted.
27. Mild. Sunny. Light winds.
28. Mild. Sunny. Light winds.
29. Mild. Sunny. Light winds.
30. Mild. Sunny. Light winds.
31. Mild. Cloudy. Light winds. Fog all day. Visibility severely restricted most of the day. Light snow 5:20 a.m. to 5:35 a.m. Snow grains 6:41 p.m. to 9:39 p.m. Ice crystals 10:50 p.m. continued.

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF DECEMBER 1979

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	-13.4	-13.1	-13.1	-13.3	-14.4	-14.8	-16.3	-17.0	-14.9	-14.0	-13.8	-13.4	-13.1	-12.8	-12.9	-13.4	-13.6	-13.7	-13.7	-13.7	-13.7	-13.9	-13.7	-13.8
2	-2.5	-2.0	0.0	0.0	-1.5	-2.7	-3.8	-3.6	-3.7	-3.2	-2.7	-2.1	-1.8	-1.2	-1.5	-2.1	-3.3	-4.0	-5.0	-6.5	-6.8	-6.7	-6.7	-7.2
3	-8.6	-8.8	-9.0	-8.0	-8.6	-8.8	-7.7	-6.1	-6.2	-5.5	-4.8	-3.9	-2.6	-1.3	-1.8	-1.7	-1.5	-1.5	-1.5	0.0	0.0	0.0	0.0	1.1
4	-1.5	-1.8	-1.3	-1.9	-2.0	-1.9	-3.6	-5.0	-5.4	-5.9	-5.9	-5.8	-6.0	-5.0	-4.5	-4.1	-4.0	-4.0	-3.6	-4.1	-4.3	-4.0	-3.9	-3.7
5	-3.3	-3.8	-3.6	-4.3	-4.4	-4.5	-5.1	-5.5	-6.7	-7.0	-6.5	-3.8	-3.1	-3.5	-3.2	-3.5	-4.0	-4.2	-5.1	-5.6	-5.0	-5.1	-7.6	-7.2
6	-5.6	-5.5	-7.6	-7.5	-7.7	-8.2	-8.7	-9.7	-10.3	-9.5	-9.7	-10.5	-11.2	-12.2	-12.6	-12.8	-13.2	-15.1	-16.0	-16.3	-17.3	-17.7	-17.8	-17.6
7	-18.5	-18.7	-18.7	-19.2	-19.2	-16.5	-15.3	-13.0	-11.9	-11.4	-10.4	-9.8	-9.3	-9.6	-9.7	-9.6	-9.9	-9.6	-10.3	-10.6	-10.2	-10.1	-10.5	-10.6
8	-10.6	-10.5	-10.9	-10.6	-10.8	-10.8	-10.8	-10.8	-10.5	-10.3	-10.0	-9.0	-8.9	-8.5	-8.5	-8.5	-8.4	-8.4	-8.3	-7.9	-7.4	-7.0	-6.9	-6.6
9	-6.5	-6.6	-6.5	-6.1	-5.8	-5.5	-5.5	-5.8	-6.2	-6.4	-6.2	-7.6	-8.3	-8.3	-9.0	-9.6	-9.9	-10.7	-11.4	-11.7	-12.1	-13.0	-14.3	-15.0
10	-15.3	-15.9	-16.9	-17.5	-18.0	-18.5	-18.9	-19.3	-20.2	-21.0	-21.0	-20.9	-21.0	-21.0	-21.0	-22.3	-23.4	-24.3	-24.7	-26.2	-26.2	-26.2	-26.7	-26.7
11	-26.7	-26.5	-25.6	-24.9	-24.1	-23.3	-22.2	-21.9	-20.1	-18.7	-17.2	-15.4	-14.4	-13.6	-12.5	-11.0	-10.0	-9.7	-9.7	-9.4	-9.0	-9.0	-9.1	-9.1
12	-8.6	-7.7	-7.5	-9.2	-11.0	-12.0	-14.1	-15.0	-15.8	-17.7	-18.5	-18.7	-18.4	-18.5	-18.5	-18.8	-19.2	-20.2	-20.6	-21.5	-21.9	-22.4	-22.8	-23.5
13	-24.2	-23.8	-24.4	-23.3	-21.3	-19.9	-19.5	-18.9	-18.0	-17.1	-15.8	-14.5	-12.3	-10.2	-8.5	-7.2	-5.6	-5.0	-4.8	-4.8	-3.3	-2.7	-4.9	-10.9
14	-14.7	-16.7	-17.2	-17.8	-18.3	-18.5	-18.7	-19.3	-20.5	-20.9	-22.4	-22.7	-22.8	-23.1	-23.6	-24.2	-24.6	-24.6	-24.8	-25.5	-25.5	-25.7	-26.6	-27.5
15	-27.5	-27.3	-27.5	-27.8	-28.0	-27.7	-28.3	-28.3	-28.3	-28.1	-26.6	-25.3	-24.2	-22.5	-21.4	-20.6	-20.5	-20.5	-20.4	-20.4	-20.7	-20.4	-20.4	-20.4
16	-20.1	-20.4	-21.0	-20.7	-20.9	-21.9	-22.2	-22.0	-22.7	-23.1	-23.8	-24.5	-25.0	-25.3	-25.7	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1	-26.1
17	-12.3	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0
18	-13.3	-13.0	-13.6	-12.9	-14.2	-14.2	-13.8	-13.5	-12.7	-11.4	-9.5	-7.8	-6.3	-4.4	-2.7	-2.0	-1.2	-1.3	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0
19	-1.6	-2.3	-2.5	-2.0	-1.8	-2.1	-2.9	-2.6	-2.5	-2.7	-1.6	-1.7	-1.6	-1.7	-1.3	0.0	-1.3	-1.2	-1.2	-1.4	-1.7	-1.0	-1.3	-1.8
20	-3.0	-4.6	-4.1	-3.4	-4.0	-4.4	-4.0	-4.4	-6.0	-7.4	-7.3	-5.7	-5.3	-5.3	-4.9	-5.6	-6.7	-8.2	-8.5	-5.3	-4.6	-4.5	-4.0	-4.0
21	-4.2	-4.3	-4.1	-3.9	-3.8	-3.7	-3.6	-4.0	-3.9	-3.9	-3.7	-3.8	-3.5	-3.5	-3.5	-3.3	-3.4	-3.5	-3.4	-3.5	-3.5	-3.5	-3.5	-3.7
22	-3.8	-3.9	-4.2	-4.4	-4.4	-4.8	-4.9	-4.9	-5.9	-4.8	-4.7	-4.6	-4.7	-4.7	-4.7	-5.1	-5.4	-5.5	-5.6	-5.7	-5.5	-5.5	-5.5	-5.5
23	-5.7	-6.1	-6.2	-6.5	-6.5	-6.5	-6.5	-6.4	-6.5	-6.4	-6.3	-6.2	-6.3	-6.3	-6.3	-6.3	-6.4	-6.4	-6.4	-6.0	-6.0	-6.0	-6.0	-6.0
24	-6.0	-6.0	-6.0	-6.5	-6.5	-6.0	-6.0	-6.9	-6.0	-5.7	-5.4	-5.0	-4.7	-4.5	-4.4	-4.3	-4.3	-4.3	-4.4	-4.4	-4.7	-5.0	-5.4	-6.1
25	-6.4	-6.9	-7.0	-8.0	-8.7	-8.5	-9.5	-9.7	-9.3	-9.9	-10.2	-8.7	-9.6	-7.3	-5.6	-5.1	-8.5	-8.6	-10.2	-9.3	-9.4	-9.4	-12.7	-12.2
26	-11.4	-11.6	-12.5	-13.6	-14.0	-14.7	-13.2	-11.8	-11.3	-12.2	-10.7	-8.7	-7.8	-6.2	-5.5	-4.3	-4.6	-4.7	-5.8	-5.9	-6.1	-6.1	-7.0	-7.1
27	-7.9	-7.0	-7.7	-8.1	-8.1	-7.9	-7.7	-9.3	-10.1	-8.6	-7.5	-6.7	-4.9	-4.0	-2.7	-2.9	-4.7	-4.3	-4.3	-5.0	-6.0	-7.0	-5.9	-6.7
28	-8.8	-8.5	-8.7	-10.2	-10.4	-12.1	-12.2	-11.5	-10.5	-9.4	-7.8	-6.7	-5.9	-5.2	-4.6	-5.1	-5.3	-6.0	-6.6	-6.6	-5.7	-5.1	-5.1	-4.8
29	-4.4	-4.4	-3.7	-3.8	-4.5	-4.5	-5.8	-6.2	-7.0	-7.8	-7.8	-5.4	-4.4	-5.0	-5.3	-6.2	-7.7	-8.3	-10.1	-9.3	-10.8	-13.5	-13.5	
30	-13.0	-9.6	-8.1	-8.9	-8.7	-8.6	-8.7	-9.4	-9.5	-10.0	-9.4	-8.9	-8.4	-8.2	-8.4	-8.5	-9.0	-9.0	-8.8	-8.8	-9.0	-8.9	-8.9	-9.5

MEAN	-10.3	-10.4	-10.5	-10.7	-10.8	-10.9	-11.1	-11.2	-11.2	-10.6	-9.7	-9.2	-8.6	-8.3	-8.1	-8.4	-8.8	-9.0	-9.1	-9.1	-9.3	-9.8	-10.0
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HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF DECEMBER

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	-12.9	-12.6	-12.7	-12.6	-12.9	-14.3	-14.8	-16.4	-16.3	-17.0	-14.7	-13.7	-13.5	-13.1	-12.7	-12.4	-12.5	-13.0	-13.4	-13.5	-13.5	-13.6	-13.5	-13.5
2	-13.5	-13.3	-13.2	-12.5	-11.9	-12.2	-12.4	-12.0	-11.9	-11.7	-11.0	-10.0	-9.0	-7.8	-6.2	-5.7	-5.4	-5.0	-4.5	-3.6	-3.0	-3.0	-3.0	-3.0
3	-1.3	-1.7	2.0	1.5	-1.6	-2.0	-3.2	-3.0	-3.2	-2.2	-1.5	-1.0	-1.3	0.0	0.0	-1.8	-2.2	-3.0	-4.0	-5.6	-6.0	-6.0	-6.0	-6.8
4	-8.3	-8.6	-8.7	-7.7	-8.3	-8.5	-7.2	-5.4	-4.9	-4.1	-3.1	-2.1	-2.1	-1.5	1.2	1.1	0.0	0.3	0.5	0.0	0.5	0.9	1.3	1.7
5	0.0	-1.5	-1.0	-1.7	-1.7	-1.7	-3.5	-4.7	-5.0	-5.4	-5.5	-5.4	-5.5	-4.2	-3.9	-3.6	-3.5	-3.5	-3.1	-3.8	-4.0	-3.7	-3.6	-2.9
6	-2.4	-3.2	-3.0	-3.6	-3.9	-4.0	-4.7	-5.3	-6.7	-7.0	-6.3	-2.9	-2.1	-2.8	-2.5	-2.9	-3.8	-3.9	-5.0	-5.5	-4.5	-4.7	-7.6	-7.1
7	-5.4	-5.1	-7.0	-7.0	-7.0	-7.7	-8.3	-9.3	-9.3	-9.2	-9.5	-9.9	-8.9	-8.3	-8.7	-9.0	-9.2	-11.6	-15.9	-17.5	-17.5	-17.0	-17.0	-17.5
8	-18.3	-18.5	-19.0	-19.0	-19.0	-16.3	-14.7	-12.0	-11.2	-10.7	-10.0	-9.5	-8.9	-8.4	-8.1	-8.0	-8.1	-8.0	-7.6	-7.1	-6.7	-6.7	-6.5	-6.2
9	0.0	-10.3	-10.7	-10.5	-10.7	-10.6	-10.7	-10.6	-10.6	-10.3	-10.0	-9.8	-8.6	-8.4	-8.1	-8.0	-8.1	-8.1	-8.1	-8.0	-7.6	-7.1	-6.7	-6.5
10	-6.2	-6.5	-6.4	-5.8	-5.5	-5.2	-5.2	-5.5	-6.0	-6.0	-6.0	-6.8	-7.5	-8.0	-8.7	-9.4	-9.7	-10.5	-11.2	-11.5	-11.9	-12.8	-14.2	-14.9
11	-15.2	-15.8	-16.8	-17.4	-17.9	-18.4	-18.8	-19.2	-20.1	-21.0	-21.0	-21.0	-20.8	-20.8	-20.8	-22.0	-23.3	-24.3	-24.7	-26.2	-26.2	-26.2	-26.7	-26.7
12	-26.7	-26.5	-25.6	-25.0	-24.2	-23.2	-22.1	-21.2	-20.0	-19.4	-18.8	-18.5	-18.1	-18.3	-18.2	-18.5	-19.0	-19.8	-20.3	-21.3	-21.7	-22.2	-22.7	-23.5
13	-8.4	-7.6	-7.4	-9.0	-10.8	-11.8	-14.0	-14.9	-15.7	-17.5	-18.3	-18.5	-18.1	-9.8	-8.0	-6.9	-5.0	-4.4	-4.2	-2.5	-2.0	-4.2	-10.6	-12.2
14	-24.2	-23.8	-24.4	-23.2	-21.2	-19.5	-19.2	-18.7	-17.9	-16.9	-15.5	-14.0	-11.8	-9.8	-8.0	-6.9	-5.0	-4.4	-4.2	-2.5	-2.0	-4.2	-10.6	-12.2
15	-14.3	-16.5	-16.8	-17.5	-18.0	-18.2	-18.6	-19.2	-20.3	-20.7	-21.9	-22.4	-22.6	-22.7	-23.0	-23.5	-24.1	-24.6	-24.8	-25.5	-25.5	-25.7	-26.6	-27.5
16	-27.5	-27.4	-27.6	-27.8	-28.0	-27.8	-28.3	-28.3	-28.1	-26.6	-25.2	-24.0	-22.2	-21.1	-20.3	-20.2	-20.2	-20.2	-20.0	-20.4	-20.2	-20.2	-20.2	-20.2
17	-20.0	-20.4	-21.0	-21.4	-21.9	-22.3	-22.7	-23.0	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2
18	-12.0	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4
19	-13.0	-12.7	-13.3	-12.3	-13.6	-13.6	-13.5	-13.3	-12.5	-11.0	-9.0	-7.4	-6.0	-4.1	-2.3	-1.5	-1.5	-1.8	-1.5	-1.6	0.0	-1.2	-1.2	-1.4
20	-1.0	-1.9	-2.0	-1.6	-1.1	-1.5	-2.2	-2.0	-1.9	-1.7	-2.0	-1.6	-1.7	-1.7	-1.3	-1.3	-1.5	-1.5	-1.4	-1.2	-1.2	-1.5	-1.9	-1.4
21	-2.6	-4.4	-4.0	-3.0	-3.7	-4.1	-3.8	-4.2	-5.8	-7.2	-7.2	-5.5	-5.0	-5.0	-4.6	-5.3	-6.5	-8.2	-8.5	-5.1	-4.5	-4.5	-3.9	-4.0
22	-4.2	-4.3	-4.1	-3.9	-3.8	-3.7	-3.6	-3.5	-3.9	-3.9	-3.7	-3.5	-3.5	-3.4	-3.4	-3.3	-3.4	-3.4	-3.3	-3.2	-3.5	-3.5	-3.6	-3.6
23	-3.8	-3.9	-4.1	-4.4	-4.4	-4.4	-4.3	-4.3	-4.3	-4.3	-4.7	-4.7	-4.5	-4.7	-4.7	-5.0	-5.4	-5.5	-5.6	-5.7	-5.5	-5.5	-5.5	-5.5
24	-5.7	-6.1	-6.2	-6.4	-6.5	-6.5	-6.5	-6.4	-6.4	-6.3	-6.3	-6.2	-6.2	-6.2	-6.3	-6.3	-6.4	-6.4	-6.4	-6.4	-6.0	-6.0	-6.0	-6.0
25	-6.0	-6.0	-6.0	-6.5	-6.5	-6.5	-6.4	-6.0	-5.9	-5.6	-5.3	-4.9	-4.5	-4.5	-4.3	-4.2	-4.1	-4.0	-4.0	-4.1	-4.5	-4.5	-5.5	-6.1
26	-6.4	-6.9	-7.0	-8.0	-8.7	-8.5	-9.5	-9.7	-9.3	-9.9	-10.2	-8.6	-9.6	-7.1	-5.2	-4.6	-8.2	-8.6	-10.2	-9.3	-9.5	-9.3	-12.8	-13.3
27	-11.4	-11.6	-12.5	-13.6	-14.0	-14.7	-13.8	-11.7	-11.7	-13.2	-10.5	-8.4	-6.6	-5.5	-4.8	-3.4	-4.0	-4.3	-5.6	-3.7	-5.9	-6.3	-7.0	-6.0
28	-7.6	-6.5	-7.2	-7.2	-7.7	-7.5	-7.3	-9.0	-10.0	-8.4	-7.0	-5.0	-4.2	-3.2	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-4.5	-5.5	-6.7	-6.3
29	-8.6	-8.3	-8.5	-10.0	-10.2	-10.2	-12.0	-12.2	-11.5	-10.3	-9.0	-7.2	-5.8	-4.9	-4.2	-3.5	-4.5	-4.8	-5.6	-6.5	-6.5	-4.8	-4.8	-4.5
30	-4.0	-4.0	-3.5	-3.8	-3.2	-4.1	-4.0	-5.5	-6.0	-6.8	-7.4	-6.4	-4.4	-3.1	-3.9	-4.3	-5.3	-7.4	-8.1	-10.0	-9.6	-10.8	-13.5	-13.5
31	-13.0	-9.5	-8.1	-9.0	-8.8	-8.7	-8.8	-9.5	-9.7	-10.0	-9.5	-9.4	-8.9	-8.4	-8.2	-8.4	-8.5	-9.0	-9.0	-8.8	-8.8	-9.0	-8.9	-9.5

MEAN -9.7 -10.1 -10.4 -10.2 -10.4 -10.5 -10.7 -10.9 -11.0 -10.9 -10.3 -9.4 -8.7 -8.1 -7.8 -7.6 -8.0 -8.4 -8.7 -8.8 -8.6 -9.0 -9.6 -9.6 -9.8

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF DECEMBER  
 ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

STARTING 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	E	ESE	SSE	S	SSE	S	SSE	S	S	SSE	S	S	SSE	S	S	SSE	S	S	SSE	S	S	SSE	S	S
2	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
3	SSW	WSW	WNW	NW	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	
4	W	WSW	WSW	W	WSW	SSW	SSW	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	
5	NNW	N	NNW	NNE	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	
6	SW	WSW	WSW	W	WNW	WNW	WSW	W	SW	SSE	SSE	E	E	ENE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	
7	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
8	W	W	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	
9	ENE	NE	NE	NNE	NNE	N	ENE	NNE	N	ENE	NNE	C	SSW	S	S	S	S	S	S	SSE	SSE	SSE	SSE	
10	ESE	ESE	ESE	E	E	E	E	E	ENE	NE	NE	NNE	N	NNE	N	N	NNE	N	N	NNE	N	N	N	
11	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
12	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
13	S	SSW	W	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	
14	S	S	SSW	S	SSE	SE	SE	SE	SSE	SE	S	S	SSE	SE	S	S	SSE	SE	S	SSE	SE	S	S	
15	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	

PEAK GUSTS

HOUR

20 CST  
 16 CST  
 14 CST  
 15 CST  
 06 CST  
 20 CST  
 15 CST  
 07 CST  
 15 CST  
 03 CST  
 13 CST  
 03 CST  
 22 CST  
 12 CST

S 48  
 S 85  
 NW 69  
 SSE 37  
 NNW 72  
 NNE 44  
 NNW 56  
 SW 33  
 NNE 61  
 N 59  
 S 81  
 NW 74  
 NW 63  
 NNW 69



