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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS JANUARY / JANVIER

1977

AT/À WINNIPEG INT'L AIRPORT / AÉROPORT INTERN. DE WINNIPEG

LAT: 49° 54' N		LONG: 97° 14' W		ELEVATION: 786 FEET (ASL) ALTITUDE: PIEDS (MER)		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	cm	km/h		km/h						
1	-13.9	-20.7	-17.3	35.3	0.0	85	69			0.2	Tr.	10	10.5	NW	NW	22*	0.0			
2	-13.6	-24.4	-19.0	37.0	0.0	93	62			Tr.	Tr.	10	8.8	S	S	15	0.3			
3	-13.7	-24.6	-19.2	37.2	0.0	93	70			0.3	0.3	10	2.9	Cal m	NNE	9*	6.4			
4	-18.3	-26.5	-22.4	40.4	0.0	87	68					10	4.4	S	S	11*	4.9			
5	-15.1	-26.3	-20.7	38.7	0.0	87	67			Tr.	Tr.	10	14.7	WSW	S	28	2.9			
6	-16.3	-28.9	-22.6	40.6	0.0	87	69			Tr.	Tr.	10	16.2	NW	N	30	7.4			
7	-23.4	-32.4	-27.9	45.9	0.0	87	76			Tr.	Tr.	10	8.2	Cal m	NW	20*	5.7			
8	-24.6	-33.1	-28.9	46.9	0.0	88	69					10	13.0	SSW	NW	19*	6.8			
9	-23.9	-34.4	-29.2	47.2	0.0	90	71			Tr.	Tr.	10	16.5	S	S	31	0.0			
10	-26.6	-36.1	-31.4	49.4	0.0	99	67			Tr.	Tr.	10	10.0	SSW	WNW	15	7.2			
11	-23.2	-32.2	-27.7	45.7	0.0	87	76			0.3	0.3	10	11.2	WNW	NW	17*	5.2			
12	-22.4	-35.4	-28.9	46.9	0.0	90	67			Tr.	Tr.	10	12.3	S	S	28	6.3			
13	-18.9	-31.0	-25.0	43.0	0.0	87	74			1.8	1.8	11	8.8	N, ESE	S	17	5.4			
14	-25.4	-30.9	-28.2	46.2	0.0	87	76			0.7	0.7	12	6.5	WNW, NW	WNW	15	3.6			
15	-28.7	-34.7	-31.7	49.7	0.0	89	73			Tr.	Tr.	13	12.0	NW	NW	17	6.3			
16	-25.5	-35.0	-30.3	48.3	0.0	90	59			Tr.	Tr.	13	7.5	SSW	WSW	11*	6.1			
17	-19.3	-38.0	-28.7	46.7	0.0	94	73			Tr.	Tr.	13	20.4	NW	NW	33*	2.5			
18	-12.5	-21.5	-17.0	35.0	0.0	88	76			0.2	Tr.	13	16.6	S	S	31	0.2			
19	- 3.4	-13.2	- 8.3	26.3	0.0	91	79		Tr.	5.5	5.5	19	16.7	S, WNW,	S	33*	0.9			
20	- 8.1	-18.3	-13.2	31.2	0.0	93	68			Tr.	Tr.	19	9.3	NW	WNW	24	0.6			
21	- 7.4	-17.0	-12.2	30.2	0.0	91	76			Tr.	Tr.	19	11.5	S	S	30*	5.8			
22	- 1.2	-11.5	- 6.4	24.4	0.0	93	81			1.5	1.5	19	28.5	S	S	48	0.0			
23	- 2.4	- 5.5	- 4.0	22.0	0.0	95	82		Tr.	0.9	0.9	22	11.0	W	NNW	22	0.0			
24	- 3.5	-12.2	- 7.9	25.9	0.0	93	81		Tr.	Tr.	Tr.	22	21.8	NW	NNW	30*	1.0			
25	- 4.8	-20.3	-12.6	30.6	0.0	90	76			0.4	0.5	22	21.3	SW	N	57	0.0			
26	-20.3	-28.9	-24.6	42.6	0.0	86	70			Tr.	Tr.	22	23.2	NNW	NNW	48	8.6			
27	-21.1	-31.1	-26.1	44.1	0.0	81	59			0.7	0.6	22	33.0	NNW	N	48	3.5			
28	-17.6	-32.2	-24.9	42.9	0.0	89	68			0.2	0.2	23	35.2	NW	NW	52	3.6			
29	-15.6	-19.5	-17.6	35.6	0.0	85	73			0.2	0.2	23	35.6	NW	NW	44	0.4			
30	-16.4	-22.0	-19.2	37.2	0.0	85	71			Tr.	Tr.	23	26.2	WNW	NW	35	8.6			
31	-10.7	-23.9	-17.3	35.3	0.0	87	77			Tr.	Tr.	23	21.7	WNW, NW	NW	33	6.1			
MEAN MOYENNE	-16.1	-25.9	-21.0	TOTAL 1208.4	TOTAL 0.0	89	72	TOTAL	TOTAL	Tr.	TOTAL 12.9	TOTAL 12.5	16.0	PREVAILING NW DOMINANTE	MAXIMUM N 57	TOTAL 116.3				
NORMAL NORMALE	-13.4	-23.2	-18.3	1125.6	0.0			0.0	0.3	24.9	23.6	19.5	NW			112.5				
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS										DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:					DAYS WITH SNOWFALL: JOURS AVEC CHÔTE 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	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		1208.4	1120.3	1125.6	TOTAL FOR MONTH TOTAL DU MOIS		0.0	Nil	Nil											
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET		3730.7	3351.4	3361.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL		1886.4	1794.0	1802.9	11	3	1	0	0	13	3	1	0	0	0

UDC 561.506.1 ()

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

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\$2.00 per year - annual only ; \$1.00 individual copies of monthly

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS JANUARY / JANVIER											1977
Temperature/Température — °Celsius Precipitation/Précipitation — Millimètres (mm) Rainfall/Hauteur de pluie — Millimètres (mm) Snowfall/Hauteur de neige — Centimètres (cm) Wind speed/Vitesse du vent — Kilomètres/par heure (km/h) Station pressure/Pression à la station — 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 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	-1.2	22	3.3	28	0.0	7.8	23	1942	-11.7	11	1950	106	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	-38.0	17	-35.8	6	-35.6	-25.0	14	1931	-44.4	15	1877	106	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	-21.0		-18.1		-18.3	-10.6		1944	-26.9		1875	106	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	Tr.		Tr.		.3	3.8	20	1944	N11	(Most years)	1973	106	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	12.9		37.2		24.9	85.3		1916	2.8		1881 1902	106	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	12.5		29.8		23.6	85.3		1916	2.5		1973 1903	106	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	11		14		12	20		1954	3		1973	94	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	Tr.	19, 23 24	Tr.	18, 22		3.8	20	1944				106	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	5.5	19	9.1	12		31.8	2	1907				106	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	5.5	19	8.1	12		31.8	2	1907				106	
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES	Tr.	19, 23 24											
10 MINUTES	Tr.	19, 23 24											
15 MINUTES	Tr.	19, 23 24											
30 MINUTES	Tr.	19, 23 24											
60 MINUTES	Tr.	19, 23 24											
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	Tr.	19, 23 24	Tr.	18, 22		3.8	20	1944				106	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	16.0		19.6		19.5	22.9		1947 1948	13.7		1930 & 1936	57	
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	N 57	25	S 60	27	56	N 79	13	1942				39	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	N 76	25	S 79	27	76	NW 93*	11	1975				32	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	116.3		108.7		112.5	160.3		1959	63.5		1931	78	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.86		98.75		98.96	99.72		1966	98.21		1947	39	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	100.53	17	100.19	7	100.83	102.07	10	1949				39	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.56	25	96.62	27	96.61				94.81	14	1947	39	
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 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		
1968	3.3	-40.6	-18.4	1.5	23.9	21.3	18.8	S 56	139.1	1127.8			
1969	-2.2	-37.8	-21.9	Tr.	54.4	47.5	19.3	NW 48	92.5	1240.0			
1970	-1.7	-38.3	-19.9	Tr.	32.3	22.9	16.6	S 43	108.9	1178.3			
1971	-3.3	-36.1	-22.5	N11	15.2	10.7	17.5	S, SSE 56	149.2	1257.8			
1972	1.1	-38.9	-22.0	N11	18.8	16.0	16.7	S 58	144.1	1242.2			
1973	5.6	-38.9	-14.0	1.8	2.8	2.5	15.8	NNW 43	141.2	990.0			
1974	-2.2	-41.7	-22.4	0.5	40.4	39.1	15.3	SSE 48	123.2	1255.6			
1975	-2.1	-33.0	-15.9	0.3	51.7	45.9	17.5	NW 66	101.9	1055.1			
1976	3.3	-35.8	-18.1	Tr.	37.2	29.8	19.6	S 60	108.7	1120.3			
1977	-1.2	-38.0	-21.0	Tr.	12.9	12.5	16.0	N 57	116.3	1208.4			

* Tower wind NW 106 1975 11th

CLIMATOLOGICAL SUMMARY FOR JANUARY 1977AT WINNIPEG, MANITOBA

January was the seventh consecutive month with below normal precipitation in Winnipeg. Snowfall amounted to 12.9 cm compared to the long-term normal of 24.9 cm. Major blizzards missed Winnipeg during January, but stormy conditions came in on January 27, 28 and 29. Strong winds blew the small amount of fresh snow and reduced the visibility, which restricted highway travel.

January was slightly colder than usual with temperatures averaging -21.0C compared to normal of -18.3C. Extremes varied from the coldest day, January 17 with a minimum of -38C to the warmest day, January 22 with a maximum of -1.2C. January 23 had a record high minimum of -5.5C for that date.

January sunshine totalled 3.8 hours more than usual and the wind averaged 3.5 kmh per hour less than usual.

DAILY WEATHER SUMMARY FOR JANUARY 1977AT WINNIPEG, MANITOBA

1. Near normal temperatures. Cloudy. Snow 00:05 a.m. to 11:45 p.m. Light winds. Visibility slightly reduced.
2. Near normal temperatures. Cloudy. Snow to 00:48 a.m. 9:29 p.m. continued. Light winds.
3. Near normal temperatures. Cloudy, clearing early morning. Snow to 3:18 a.m. Ice crystals 3:18 a.m. to 8:45 a.m. Light winds.
4. Below normal temperatures. Partly cloudy. Smoke 8:30 to 10:00 a.m. Visibility slightly reduced. Light winds.
5. Below normal temperatures. Mostly cloudy. Snow 8:15 p.m. continued. Gusty south wind in afternoon otherwise light.
6. Cold. Cloudy clearing mid-morning. Snow to 3:40 a.m. Ice crystals 7:15 a.m. to 3:45 p.m. Gusty north wind in morning otherwise light.
7. Very cold. Mostly sunny. Ice crystals 10:25 p.m. to 11:00 p.m. Ice fog in morning. Visibility reduced. Light winds.
8. Very cold. Sunny. Light winds.
9. Very cold. Cloudy. Ice crystals 6:42 p.m. continued. Blowing snow 10:15 a.m. to 11:15 a.m. Drifting snow otherwise. Ice fog in morning. Visibility reduced. Gusty SSE wind mid-day.
10. Very cold. Mostly sunny. Ice crystals to 12:37 p.m. 8:55 p.m. continued. Ice fog in morning at airport, over the city all day. Visibility reduced. Light winds.
11. Very cold. Partly cloudy. Ice crystals to 7:28 a.m. 8:09 a.m. to 10:18 a.m. 1:00 p.m. to 5:20 p.m. Snow 7:28 to 1:11 p.m. Light winds. Ice fog in morning. Visibility restricted.
12. Very cold. Mostly sunny. Ice crystals 2:55 a.m. to 12:35 p.m. Snow 11:09 p.m. continued. Light winds. Ice fog in morning. Visibility severely restricted.
13. Cold. Cloudy clearing by afternoon. Snow to 11:45 a.m. Ice crystals 11:33 a.m. to 5:41 p.m. 11:49 p.m. continued. Light winds. Visibility severely reduced in morning.
14. Cold. Mostly cloudy. Ice crystals to 3:33 a.m. 9:17 p.m. continued. Snow 3:33 a.m. to 9:00 p.m. 9:40 p.m. continued. Light winds. Ice fog in evening. Visibility reduced.
15. Very cold. Mostly sunny. Ice crystals to 7:00 p.m. 8:46 p.m. to 10:00 p.m. Snow to 0:33 a.m. Ice fog in morning. Visibility reduced in morning.
16. Very cold. Mostly sunny. Ice crystals 4:54 a.m. to 9:00 a.m. Light winds.
17. Very cold. Partly cloudy. Ice crystals 00:28 a.m. to 1:19 p.m. Snow 2:16 p.m. to 8:22 p.m. Ice fog in morning. Visibility reduced. Gusty NW wind in afternoon. Drifting snow.
18. Above normal temperatures. Cloudy. Snow grains 9:45 a.m. to 10:06 a.m. Snow 10:12 a.m. to 10:42 a.m. 11:30 p.m. continued. Visibility reduced late evening. Gusty south wind late evening. Drifting snow.
19. Mild. Mostly cloudy. Snow or snow pellets to 8:20 a.m. Ice pellets 0041-0135 a.m. Snow 10:45 a.m. to 1:15 p.m. 4:17 p.m. to 7:04 p.m. Freezing rain 0041 a.m. to 2:15 a.m. Gusty south wind in morning. Slippery roads.
20. Mild. Cloudy. Snow 12:41 p.m. continued. Light winds.
21. Mild. Partly cloudy. Snow to 1:22 a.m. Ice crystals 9:50 a.m. to noon. 9:24 p.m. continued. Ice fog in morning. Visibility slightly reduced. Mostly light winds.
22. Mild. Cloudy. Ice crystals to 00:45 a.m. Snow 10:50 a.m. to 12:05 p.m. 3:25 p.m. continued. Snow pellets 11:10 p.m. continued. Blowing snow 7:35 a.m. to 10:45 a.m. Visibility severely reduced in morning. Strong south wind in morning. Drifting snow.
23. Mild. Cloudy. Snow to 5:03 a.m. 8:50 a.m. to 5:10 p.m. Snow pellets to 01:50 a.m. Freezing drizzle 4:56 a.m. to 9:51 a.m. Mostly light winds. Visibility reduced. Slippery roads.
24. Mild. Cloudy. Snow 00:52 a.m. to 8:28 p.m. Freezing drizzle 3:54 a.m. to 9:55 a.m. 8:00 p.m. to 9:20 p.m. Freezing rain 8:28 p.m. to 8:46 p.m. Gusty NNW wind in morning. Drifting snow. Visibility reduced. Icy roads.
25. Mild. Cloudy. Snow 10:42 a.m. to 10:51 a.m. 3:40 p.m. to 8:45 p.m. Blowing snow 7:34 p.m. to 10:05 p.m. Drifting snow. Strong gusty north wind in evening. Visibility reduced.
26. Cold. Mostly clear. Ice crystals 10:27 a.m. to 11:36 a.m. Blowing snow 00:24 a.m. to 01:13 a.m. Drifting snow. Gusty NNW wind in morning.
27. Cold. Partly cloudy. Snow 03:51 a.m. to 08:44 a.m. Blowing snow 7:52 a.m. to 10:46 p.m. Drifting snow. Strong northerly winds. Visibility severely reduced. Driving hazardous.
28. Cold. Mostly cloudy. Ice crystals 9:42 a.m. to 12:13 p.m. Snow 11:41 a.m. to 11:56 a.m. Snow grains 11:56 a.m. to 12:13 p.m. Snow 6:30 p.m. continued. Blowing snow 7:10 a.m. to 9:17 a.m., 12:13 p.m. to 3:10 p.m. 6:55 p.m. continued. Visibility severely reduced. Gusty NW winds afternoon and evening. Driving hazardous, cars stranded on highways. Drifting snow.
29. Above normal temperatures. Cloudy. Blowing snow to 00:40 a.m. 02:20 a.m. to 2:15 p.m. 3:20 p.m. to 5:45 p.m. 6:09 p.m. to 7:30 p.m. Snow 2:17 a.m. to 1:45 p.m., 3:41 p.m. to 6:30 p.m. Ice crystals 2:34 p.m. to 3:25 p.m. Drifting snow. Gusty NW wind in morning. Visibility severely reduced. Driving still dangerous.
30. Normal temperatures. Mostly sunny. Ice crystals 8:30 a.m. to 2:45 p.m. Drifting snow. Blowing snow 9:40 a.m. to 11:30 a.m. Visibility reduced in morning. Gusty WNW wind in afternoon.
31. Above normal temperatures. Mostly sunny. Snow 8:30 a.m. to 9:44 a.m. 4:35 p.m. to 5:20 p.m. Visibility reduced in morning. Drifting snow. Gusty WNW wind in afternoon.

DATE	08.	09.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
1	-20.4	-18.0	-17.7	-17.0	-16.4	-15.5	-15.0	-14.3	-13.7	-14.3	-14.4	-14.7	-14.4	-14.7	-14.6	-14.3
2	-18.1	-17.2	-17.0	-16.8	-16.4	-16.0	-15.5	-15.0	-14.3	-13.7	-14.3	-14.4	-14.7	-14.4	-14.7	-14.6
3	-18.7	-17.9	-17.7	-17.5	-17.1	-16.8	-16.4	-16.0	-15.5	-15.0	-14.3	-13.7	-14.3	-14.4	-14.7	-14.6
4	-18.2	-17.5	-17.3	-17.1	-16.7	-16.4	-16.0	-15.5	-15.0	-14.3	-13.7	-14.3	-14.4	-14.7	-14.6	-14.3
5	-21.5	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
6	-18.9	-18.5	-18.7	-18.2	-17.8	-17.4	-17.0	-16.5	-16.0	-15.5	-15.0	-14.3	-13.7	-14.3	-14.4	-14.7
7	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
8	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
9	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
10	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
11	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
12	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
13	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
14	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
15	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
16	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
17	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
18	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
19	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
20	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
21	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
22	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
23	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
24	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
25	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
26	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
27	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
28	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
29	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
30	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0
31	-21.1	-20.3	-20.0	-19.8	-19.4	-19.0	-18.5	-18.0	-17.1	-16.8	-16.8	-16.6	-16.7	-16.0	-16.5	-16.0

MEAN -21.1 -21.3 -21.3 -21.3 -22.1 -22.2 -22.4 -21.6 -20.5 -19.9 -18.4 -18.4 -18.0 -16.1 -13.5 -14.9 -20.0 -20.3 -20.3

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JANUARY 1977

ALL TIMES ARE C.S.T.

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	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW		
2	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
3	C	C	NNE	NNE	NNE	N	N	C	C	N	C	NW	C	NW	C	W	NW	C	W	C	W	C	C	SSE		
4	SSW	SSW	C	SSW	C	S	S	S	S	S	SSW	S	S	W	C	WNW	W	C	W	C	W	W	SSW	SSW		
5	WSW	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	S	16 CST
6	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	N	05 CST
7	WSW	C	WSW	W	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	SSE	12 CST
8	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW		
9	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
10	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW		
11	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
12	WSW	W	WSW	WSW	WSW	S	SSW	S	S	SSW	S	S	S	S	S	SSE	S	S	S	S	S	S	S	S		
13	S	SSE	SE	ESE	ESE	E	E	ENE	NNE	N	NNE	NNE	N	NNE	NNE	N	NNE	NNE	N	NNE	NNE	N	N	N		
14	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW		
15	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW		

