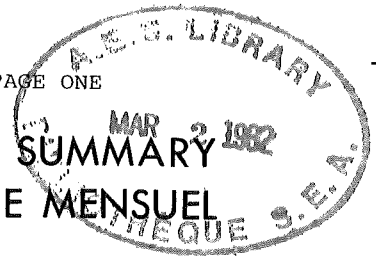




VOL ISS JAN 82
MONTHLY METEOROLOGICAL SUMMARY, WIN
NIFEG, MANITOBA

METEOROLOGICAL SUMMARY
MÉTÉOROLOGIQUE MENSUEL



MONTH/MOIS JANUARY / JANVIER

1982

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

LAT: 49 ° 54' N			LONG: 97 ° 14' W			ELEVATION: ALTITUDE:		METRES (ASL) MÉTRES (NMM) 239.6 M			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. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION						
	°C	°C	°C			%	%		mm	cm	mm		cm	km/h	km/h						
1	-20.0	-29.8	-24.9	42.9	0.0	87	65			0.8	0.8	3	10.7	ESE 28*	4.4						
2	-15.5	-25.8	-20.7	38.7	0.0	85	75			6.7	5.6	7	23.6	WNW	E 35	1.0					
3	-24.2	-31.5	-27.9	45.9	0.0	79	62			0.2	0.2	8	12.6	WNW	WNW 26*	6.3					
4	-16.3	-24.2	-20.3	38.3	0.0	85	72			4.2	0.9	8	11.7	SE	ESE 19	0.1					
5	-15.8	-27.8	-21.8	39.8	0.0	86	57			5.8	4.2	13	29.5	WNW	NW 50*	0.0					
6	-26.1	-31.7	-28.9	46.9	0.0	87	63					13	18.1	W	W 26*	7.9					
7	-22.5	-33.8	-28.2	46.2	0.0	89	56			0.4	0.4	13	17.5	S	NW 41	6.9					
8	-24.5	-35.8	-30.2	48.2	0.0	91	60			0.2	0.2	13	22.2	W	NW 48	6.8					
9	-28.5	-34.6	-31.6	49.6	0.0	75	59			0.4	0.4	12	35.3	NW	NNW 56	1.3					
10	-22.2	-32.0	-27.1	45.1	0.0	87	63			Tr.	Tr.	11	43.2	NW	NW 52*	6.5					
11	-23.1	-27.8	-25.5	43.5	0.0	77	62			Tr.	Tr.	11	21.2	NNW	NNW 30	5.8					
12	-21.3	-30.6	-26.0	44.0	0.0	78	66			Tr.	Tr.	10	10.6	SSE	SSE 24	6.4					
13	-19.7	-27.8	-23.8	41.8	0.0	86	74			0.9	0.9	11	11.4	SSE	SSE 22*	5.3					
14	-16.0	-29.2	-22.6	40.6	0.0	86	71			0.5	0.8	11	30.9	S	S 44*	0.0					
15	-16.1	-30.6	-23.4	41.4	0.0	80	63			0.4	0.4	12	41.7	NW	NW 56	3.5					
16	-28.4	-34.8	-31.6	49.6	0.0	90	40			0.2	0.2	12	18.7	W	NW31	7.4					
17	-23.5	-35.5	-29.5	47.5	0.0	76	60					12	13.8	E	SSE 19	0.2					
18	-17.2	-32.6	-24.9	42.9	0.0	86	63			1.6	1.4	12	13.4	SSE	SSE 24*	2.5					
19	-18.7	-35.9	-27.3	45.3	0.0	90	72			Tr.	Tr.	13	21.5	WNW	NW37	8.1					
20	-23.7	-38.9	-31.3	49.3	0.0	92	71			0.2	0.2	13	13.9	NNE	N 28*	1.5					
21	-23.3	-30.2	-26.8	44.8	0.0	98	68			Tr.	Tr.	13	19.7	NNE	NNE 26*	6.7					
22	-18.5	-25.0	-21.8	39.8	0.0	83	73			4.3	4.3	13	40.0	NNE	N 54*	0.0					
23	-21.2	-32.2	-26.7	44.7	0.0	81	58			0.5	0.5	16	39.1	N	N 56	4.6					
24	-26.0	-35.5	-30.8	48.8	0.0	91	60					15	10.6	NW	NW 20	0.0					
25	-23.3	-31.9	-27.6	45.6	0.0	78	64			Tr.	Tr.	12	13.6	S	S 24*	6.5					
26	- 5.5	-27.1	-16.3	34.3	0.0	91	68			0.2	1.1	12	34.0	SSE	SSE 70	0.0					
27	- 3.6	-20.7	-12.2	30.2	0.0	90	65			Tr.	1.6	14	35.8	WNW	S 50	0.9					
28	-16.4	-22.9	-19.2	37.7	0.0	70	52					13	20.5	WSW	W 35	8.7					
29	-13.2	-23.8	-18.5	36.5	0.0	81	66			1.8	1.6	10	25.1	NW	NW 44	2.9					
30	-24.0	-31.3	-27.7	45.7	0.0	87	63					10	16.5	WNW	NNW 31	8.7					
31	-18.0	-29.8	-23.9	41.9	0.0	87	68					10	29.5	S	S 41*	3.1					
MEAN MOYENNE	-19.9	-30.4	-25.2	1337.5	0.0	85	64			0.2	32.1	25.7	22.8	PREVAILING DIRECTION DOMINANTE NW	MAXIMUM SSE 70	124.0					
NORMAL NORMALE	-13.4	-23.2	-18.3	1125.6	0.0	87	69	0.0	0.3	24.9	23.6	28	19.5	NW	57	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	NORMALE	ABOVE 5°C AU-DESSUS DE 5°C			THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	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			1337.5	994.4	1125.6	TOTAL FOR MONTH TOTAL DU MOIS			0.0	0.0	0.0	19	7	3	0	0	19	8	4	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET			3399.6	3333.2	3371.6	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL			1844.1	1916.3	1787.8	19	7	3	0	0	19	8	4	0	0

UDC 551.506.1 ()

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)

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

YEARLY SUBSCRIPTION RATE \$12.00 per year - includes monthly & annual

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS				JANUARY / JANVIER						19 82	
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 (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	-3.6	27	2.0	22	-0.1	7.8	23	1942	-11.7	11	1950	111	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	-38.9	20	-31.8	3	-37.4	-25.0	14	1931	-44.4	15	1877	111	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	-25.2		-14.1		-18.3	-10.6		1944	-26.9		1875	111	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	0.2		0.4		0.3	3.8		1944	Nil (Most Years)		1881	111	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	32.1		24.4		24.9	85.3		1916	2.8		1902	111	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	25.7		23.2		23.6	85.3		1916	2.5		1973	111	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	19		9		12	20		1954	3		1903	99	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	0.2	26	0.2	5 25		3.8	20	1944				111	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	6.7*	2	17.4*	25		31.8	2	1907				111	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	5.6*	2	17.2*	25		31.8	2	1907				111	
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	0.2	26	0.2	5 25		3.8	20	1944				111	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	22.8		15.4		19.5	22.9		1947	12.6		1979	62	
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SSE70	26	S 44	4	57	N 79	13	1942				44	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	SSE106	26	N 65	25	77	SSE106	26	1982				37	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	124.0		139.6		112.5	160.4		1959	63.5		1931	83	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	99.10		99.15		98.96	99.72		1966	98.21		1947	44	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	101.33	9	100.98	10	100.84	102.11*	10	1949				44	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	95.83	27	96.66	25	96.61				94.81	14	1947	44	
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													
TEN (DIX)							YEARS DERNIÈRE ANNÉES						
YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRÉCIP. 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		
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			
1978	-2.1	-33.3	-21.1	Nil	10.9	10.3	18.6	NNNE 65	144.5	1212.4			
1979	-5.2	-37.7	-22.5	Nil	9.3	9.0	12.6	S 41	123.6	1255.7			
1980	0.0	-32.3	-18.8	Tr.	35.5	34.0	19.4	NW 65	123.8	1140.0			
1981	2.0	-31.8	-14.1	0.4	24.4	23.2	15.4	S 44	139.6	994.4			
1982	-3.6	-38.9	-25.2	0.2	32.1	25.7	22.8	SSE 70	124.0	1337.5			
				7.1 cm snow Jan 1-2)		1982							
				6.0 mm pcprn Jan 1-2)									

Note: 102.11 Kps. is amended maximum pressure.

Highest pressure ever recorded in Winnipeg and it occurred between hours.

1981 * Jan. 25-26 24hr snowfall 17.9 24 hr. precip. 17.9 Tower wind Jan 11, 1975 NW 106

Error last year** Sept 25th 1981 max 20.0 not 10.0

Aug. 29th 1981 mean 20.2 not 20.3

This month with a mean of -25.2 degrees Celsius was the third coldest January this century and the 8th coldest on record. The coldest was -26.9 degrees Celsius in 1875. An average wind of 22.8 KMH made this also the third windiest January since wind records began in 1921. The 26th marked the end of 30 consecutive days where the mean temperature was below normal. This ties the record for the second longest period during the winter season. The longest period was 43 days set in 1936. Total precipitation was slightly above normal while total snowfall was some 7 cms above normal. There were 124.0 hours of sunshine compared to the normal 112.5.

DAILY WEATHER SUMMARY FOR JANUARY 1982AT WINNIPEG, MANITOBA

All Times Central Standard
Not Daylight

1. Very cold. Partly cloudy. Snow to 04.57 AM. Ice crystals 04.57 AM to 2.32 PM. Snow 9.20 PM continued. Ice fog in morning visibility restricted. Smoke over the city. Mostly light winds but E. gust to 39 Km/hr late evening. Drifting snow in evening.
2. Cold. Mostly cloudy. Snow to 4.26 PM. Ice crystals 06.16 AM to 08.47 AM. Moderate winds with E gust to 50 Km/hr in morning. Visibility severely restricted. Drifting snow. Roads icy. Numerous accidents.
3. Very cold. Sunny. Snow 5.51 PM continued. Mostly light winds but WNW gust to 35 Km/hr in morning. Drifting snow in morning. Ice fog in morning. Visibility restricted.
4. Below normal temp. Cloudy. Snow to 11.15 PM. Ice crystals 01.22 AM to 5.33 AM. 1.50 PM to 2.30 PM visibility restricted. Light winds.
5. Cold. Cloudy. Snow 03.23 AM to 1.40 PM. Blowing snow 09.46 AM to 5.15 PM. Visibility severely restricted. Moderate NW winds gusting to 67 Km/hr in afternoon. Drifting snow.
6. Very cold. Sunny. Mostly light winds but W gust to 35 Km/hr in morning. Drifting snow. Power outages in S.E. Manitoba.
7. Very cold. Mostly sunny. Snow 8.31 PM continued. Ice crystals 08.58 PM continued. Blowing snow 11.12 PM continued. Ice fog in morning. Visibility restricted in ice fog in morning. Snow, blowing snow late evening. Mostly light winds but NW gust to 63 Km/hr in late evening.
8. Very cold. Mostly sunny. Snow to 00.24 AM. Ice crystals to 6.45 AM. Blowing snow to 00.55. Drifting snow in morning. Moderate winds with NW gust to 65 Km/hr in morning. Visibility restricted early morning.
9. Very cold. Cloudy. Ice crystals 2.53 AM to 3.47 PM. 8.47 PM continued. Snow 8.36 AM to 9.28 AM. Blowing snow 8.45 AM to 5.05 PM. Ice fog in morning. Visibility restricted most of day. Moderate winds with N gust to 72 Km/hr in morning. Drifting snow.
10. Very cold. Mostly sunny. Ice crystals all day. Snow 8.21 PM to 8.45 PM. Blowing snow 01.30 AM to 2.55 PM. Visibility restricted till late afternoon. Drifting snow. Strong winds with WNW gust to 72 Km/hr in afternoon. Train derailment near Austin, Manitoba - propane tanks exploded early morning.
11. Very cold. Cloudy clearing late morning. Ice crystals to 01.12 AM. Moderate winds with NW gust to 41 Km/hr in morning. Drifting snow.
12. Very cold. Sunny. Ice crystals 05.50 AM to 10.48 AM. Mostly light winds but SSE gust to 31 Km late evening. Ice fog in morning mostly over the city.
13. Cold. Cloudy clearing late morning. Snow 2.30 AM to 11.40 AM. Ice crystals 7.18 AM to 2.33 PM. Light winds.
14. Cold. Cloudy. Snow 11.20 AM continued. Ice crystals 8.30 PM continued. Blowing snow 7.28 AM to 8.20 PM. Drifting snow. Visibility severely restricted. Moderate winds gusting to S 69 Km/hr late afternoon. Baby born in farmhouse when family forced off the highway due to near blizzard conditions.

15. Very cold. Sunny becoming cloudy early afternoon. Snow to 5.21 AM 8.45 PM continued. Ice crystals to 00.02 AM, 5.21 AM to 8.58 AM. Blowing snow 00.10 AM to 5.10 AM, 9.10 AM to 4.40 PM, 10.32 PM to 11.31 PM. Drifting snow, visibility restricted. Strong winds with NW gust to 70 Km/hr morning. Some roads blocked - people stranded.
16. Very cold. Sunny. Snow to 6.05 AM. Ice crystals 01.59 AM to 8.58 AM. Blowing snow 1.20 AM to 1.45 AM. Ice fog in afternoon and late evening. Mostly light winds but W gust to 46 Km/hr in morning. Visibility restricted. Hospitals report numerous cases of frostbite.
17. Very cold. Cloudy. Light winds. Light ice fog in morning.
18. Very cold. Sunny becoming cloudy mid afternoon. Ice crystals 5.37 AM to 6.34 AM. 7.27 PM continued. Snow 2.49 PM continued. Ice fog in morning. Mostly light winds but SSE gust to 31 Km/hr in afternoon. Visibility restricted. Drifting snow.
19. Very cold. Sunny. Snow to 3.35 AM. Ice crystals to 8.50 AM, 9.18 PM to 10.32 PM. Moderate winds with WNW gust to 48 Km/hr in morning. Drifting snow. Ice fog in evening.
20. Very cold. Mostly cloudy. Ice crystals 2.15 AM to 6.33 AM. Snow 2.30 PM continued. Ice fog in morning. Drifting snow. Mostly light winds but NW gust to 37 Km/hr in afternoon.
21. Very cold. Sunny. Snow to 00.22 AM. Ice crystals 00.22 AM to 4.53 PM. Mostly light winds but NNE gust to 37 late afternoon. Drifting snow.
22. Below normal temp. Cloudy. Snow 00.40 AM continued. Blowing snow 4.25 AM continued. Visibility restricted severely. Strong winds with N gust to 74 Km/hr late evening. Travel difficult.
23. Very cold. Cloudy clearing early afternoon. Snow to 7.58 AM Blowing snow to 2.15 PM. Drifting snow. Visibility restricted. Moderate winds with N gust to 72 Km/hr in morning.
24. Very cold. Cloudy. Heavy ice fog 9.48 AM to 10.15 AM. Light ice fog until late evening. Visibility restricted. Light winds.
25. Very cold. Mostly sunny. Ice crystals 9.58 AM to 11.50 AM. Mostly light winds but S gust to 35 Km/hr in afternoon. Patches of ice fog. Smoke over city. Some drifting snow.
26. Above normal temp. for first day since December 26th. 30 days below normal continuous. Cloudy. Snow 7.35 PM continued. Ice pellets 8.18 PM continued. Freezing rain. 11.15 PM continued. Moderate winds with SSE gust to 106 Km/hr in evening breaking maximum gust record for January. Some power outages. Blowing snow 6.06 PM continued.
27. Above normal temp. Cloudy. Freezing rain to 2.32 AM. Ice pellets to 1.15 AM. Snow to 9.18 AM. 2.53 PM to 6.25 PM. Ice crystals 7.52 PM to 8.16 PM. Blowing snow to 9.05 AM, 5.30 PM to 9.56 PM. Visibility restricted morning/late afternoon and early evening. Moderate winds with S gust to 72 Km/hr in morning.
28. Slightly below normal temp. Sunny. Moderate winds with W. gust to 48 Km/hr in morning. Drifting snow.
29. Near normal temp. Partly cloudy. Snow 01.30 AM to 12.14 PM. Blowing snow 12.43 PM to 3.09 PM. Visibility restricted. Moderate winds with NW gust to 59 Km/hr in afternoon. Drifting snow.
30. Very cold. Sunny. Mostly light winds but NW gust to 37 Km/hr in morning.
31. Cold. Partly cloudy. Blowing snow 8.15 AM to 1.40 PM. Moderate winds with S gust to 65 Km/hr late morning. Drifting snow.

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JANUARY 1962
 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.	-22.9	-22.9	-22.8	-23.4	-23.4	-24.0	-25.8	-27.2	-28.8	-29.4	-29.4	-27.2	-23.6	-23.2	-22.0	-22.5	-23.3	-23.6	-22.3	-21.2	-20.6	-20.1	-20.5	-20.4
2.	-20.2	-20.0	-19.5	-19.0	-18.8	-18.5	-18.2	-17.6	-17.2	-16.6	-16.2	-16.0	-16.3	-16.5	-16.8	-17.5	-19.3	-21.3	-22.3	-23.3	-23.8	-24.6	-25.4	-25.8
3.	-25.5	-26.1	-26.6	-27.8	-27.6	-28.7	-27.8	-27.8	-29.3	-30.0	-29.5	-28.3	-27.4	-27.7	-26.1	-26.0	-26.9	-26.0	-25.7	-25.0	-24.6	-24.4	-24.8	-24.7
4.	-24.2	-24.1	-23.9	-23.8	-23.7	-23.2	-23.0	-22.5	-22.0	-21.2	-21.0	-20.5	-19.9	-19.4	-19.0	-18.5	-18.3	-18.1	-17.9	-17.6	-17.2	-17.0	-17.0	-16.7
5.	-16.5	-16.5	-16.0	-16.2	-16.0	-16.2	-17.0	-16.1	-17.3	-18.3	-19.1	-19.7	-20.6	-20.6	-21.2	-22.5	-23.3	-24.1	-25.1	-25.8	-26.6	-26.2	-26.2	-27.4
6.	-27.8	-29.4	-29.6	-29.9	-30.0	-29.9	-30.5	-30.9	-31.2	-31.7	-31.0	-30.1	-29.0	-28.1	-27.4	-27.0	-27.2	-27.9	-28.9	-29.1	-30.0	-31.3	-31.1	-30.1
7.	-31.5	-32.6	-31.2	-31.0	-31.9	-33.1	-31.9	-32.2	-33.8	-32.0	-30.5	-29.0	-27.5	-26.0	-24.7	-24.4	-25.6	-25.5	-24.5	-23.8	-23.7	-23.3	-22.7	-22.7
8.	-24.5	-28.1	-29.3	-30.6	-31.7	-33.3	-33.6	-34.5	-35.6	-34.7	-34.3	-32.8	-31.6	-31.6	-29.9	-29.0	-28.2	-29.0	-29.8	-30.1	-30.0	-30.1	-29.4	-29.4
9.	-29.3	-29.8	-30.0	-31.7	-29.7	-28.7	-29.9	-32.0	-30.9	-29.9	-30.3	-30.8	-31.2	-31.7	-31.8	-32.2	-32.7	-33.5	-34.0	-34.5	-33.9	-33.3	-32.9	-33.0
10	-32.0	-31.3	-30.8	-30.2	-30.0	-29.9	-29.7	-29.7	-29.3	-28.6	-27.7	-26.7	-26.7	-25.0	-24.0	-22.8	-22.3	-22.6	-22.7	-22.6	-23.0	-22.8	-23.1	-23.4
11	-24.1	-24.3	-24.9	-24.1	-23.5	-23.1	-23.4	-23.8	-23.8	-23.4	-24.9	-25.3	-25.1	-24.3	-23.5	-23.5	-23.7	-25.0	-27.2	-27.8	-25.7	-26.2	-26.2	-26.6
12	-27.4	-27.7	-28.1	-28.3	-28.1	-29.0	-29.2	-29.7	-30.4	-28.9	-25.5	-24.3	-23.1	-22.8	-21.8	-22.2	-23.4	-23.7	-23.2	-23.0	-22.4	-22.2	-21.8	-21.8
13	-22.0	-22.0	-21.5	-21.3	-21.2	-21.0	-21.2	-21.1	-20.8	-20.6	-20.5	-20.4	-20.5	-20.5	-20.9	-21.3	-22.0	-22.7	-23.6	-24.7	-24.5	-25.4	-26.5	-27.5
14	-27.7	-28.3	-28.7	-28.2	-26.0	-26.2	-26.0	-24.3	-23.8	-23.5	-22.6	-21.6	-21.1	-20.6	-20.2	-19.9	-19.2	-18.6	-19.5	-18.3	-17.5	-16.7	-16.2	-16.7
15	-16.1	-17.3	-19.2	-20.8	-22.7	-24.5	-25.6	-27.6	-28.5	-29.5	-29.8	-29.5	-29.0	-29.0	-29.4	-29.4	-29.5	-29.5	-29.7	-30.0	-30.5	-30.2	-30.1	-30.3
16	-30.3	-30.4	-31.0	-30.8	-30.7	-31.7	-31.9	-34.2	-34.8	-34.8	-33.3	-32.2	-31.5	-30.2	-29.4	-29.2	-29.0	-29.8	-30.8	-31.5	-31.6	-31.4	-31.3	-33.0
17	-33.1	-34.9	-34.6	-34.6	-34.6	-33.5	-32.9	-32.4	-31.7	-31.0	-29.9	-28.6	-27.5	-26.0	-24.8	-23.8	-24.6	-25.0	-26.0	-26.2	-26.2	-26.2	-26.5	-27.3
18	-28.2	-28.9	-28.2	-32.1	-31.2	-30.1	-31.0	-31.0	-29.2	-29.1	-27.8	-26.2	-22.9	-21.8	-20.7	-18.8	-18.5	-18.4	-18.2	-17.7	-17.5	-17.4	-18.0	-18.0
19	-18.7	-19.3	-19.9	-20.3	-24.9	-25.7	-27.2	-27.6	-28.3	-28.0	-28.9	-28.1	-27.4	-27.3	-27.0	-26.8	-27.2	-28.9	-30.3	-30.5	-31.6	-33.6	-34.6	-34.6
20	-33.8	-36.4	-37.7	-38.2	-35.3	-35.2	-35.0	-31.0	-28.8	-29.1	-32.1	-30.1	-31.0	-29.0	-28.0	-27.0	-26.3	-25.8	-25.4	-25.2	-25.0	-24.4	-24.3	-24.0
21	-23.8	-24.3	-25.5	-26.5	-28.2	-28.8	-29.5	-30.2	-29.8	-29.0	-28.7	-28.0	-27.2	-26.1	-25.6	-24.8	-24.3	-24.3	-25.8	-26.6	-27.0	-27.0	-25.7	-25.3
22	-25.0	-23.8	-23.0	-22.8	-22.8	-22.8	-22.6	-22.0	-22.0	-21.9	-21.3	-20.5	-19.9	-19.3	-19.0	-19.8	-19.6	-19.7	-19.8	-19.6	-19.6	-19.7	-20.2	-21.0
23	-21.5	-21.8	-22.2	-22.3	-22.6	-23.2	-23.6	-24.2	-24.8	-25.3	-26.0	-26.2	-26.3	-25.6	-25.6	-26.3	-27.0	-26.8	-27.8	-29.0	-29.8	-30.0	-30.3	-31.3
24	-32.2	-32.7	-32.7	-34.0	-34.8	-35.3	-35.2	-35.5	-34.5	-33.7	-31.6	-30.6	-29.7	-28.4	-27.8	-27.4	-27.7	-27.4	-27.2	-27.2	-26.6	-26.2	-26.4	-26.0
25	-26.0	-26.4	-28.2	-28.0	-29.0	-30.7	-30.5	-31.2	-31.5	-29.4	-27.6	-25.2	-24.8	-24.6	-24.5	-24.4	-24.1	-23.8	-23.8	-23.6	-24.0	-25.0	-25.9	-25.9
26	-27.0	-27.0	-26.9	-26.8	-26.7	-26.5	-26.4	-25.2	-24.4	-23.2	-21.4	-19.4	-17.7	-16.0	-13.7	-11.5	-10.7	-8.7	-6.7	-5.8	-6.5	-7.1	-7.5	-8.1
27	-8.1	-8.0	-7.8	-8.0	-8.1	-7.8	-7.8	-7.1	-5.1	-4.3	-5.1	-6.4	-6.6	-7.5	-7.8	-8.3	-9.8	-11.1	-13.1	-14.8	-16.7	-17.8	-19.6	-20.2
28	-20.5	-21.0	-22.1	-22.6	-22.1	-22.6	-22.6	-22.8	-22.1	-21.1	-21.4	-19.3	-18.4	-18.4	-17.6	-17.0	-16.7	-17.2	-18.5	-18.5	-18.8	-19.0	-18.4	-19.0
29	-18.5	-17.8	-16.8	-17.4	-17.0	-16.5	-16.3	-15.6	-15.8	-15.3	-14.6	-13.3	-13.9	-15.3	-17.1	-19.0	-18.8	-21.2	-22.5	-22.3	-22.5	-23.0	-23.2	-23.2
30	-23.8	-25.8	-27.5	-28.2	-30.0	-30.0	-30.8	-30.5	-30.7	-31.0	-29.4	-28.0	-26.9	-26.0	-25.1	-25.1	-24.8	-24.6	-25.5	-26.7	-26.8	-27.0	-27.8	-28.2
31	-28.9	-29.3	-29.3	-29.0	-29.6	-28.2	-28.1	-26.9	-26.2	-24.7	-23.6	-22.4	-22.0	-20.6	-19.7	-18.6	-18.6	-19.3	-19.3	-19.2	-19.3	-20.1	-20.1	-20.0
MEAN	-24.8	-25.3	-25.6	-26.0	-26.1	-26.3	-26.5	-26.6	-26.5	-26.0	-23.5	-24.7	-24.0	-23.4	-22.9	-22.7	-22.8	-23.2	-23.7	-21.9	-23.9	-24.1	-24.2	-24.5

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

ALL TEMPERATURES IN DEGREES CELSIUS

DATE	00.	01.	02.	03.	04.	05.	06.	07.	08.	09.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
1.	-23.0	-23.0	-22.9	-23.5	-23.5	-24.0	-25.8	-27.2	-28.7	-29.3	-29.3	-27.1	-23.5	-23.1	-22.0	-22.5	-23.3	-23.6	-22.3	-21.3	-20.9	-20.3	-20.6	-20.5
2.	-20.2	-20.1	-19.6	-19.0	-18.8	-18.5	-18.2	-17.6	-17.2	-16.6	-16.3	-16.1	-16.4	-16.6	-17.0	-17.7	-19.4	-21.4	-22.3	-23.3	-23.8	-24.6	-25.4	-25.8
3.	-25.5	-26.1	-26.6	-27.8	-27.6	-28.7	-29.3	-30.0	-29.5	-28.3	-27.4	-27.7	-26.2	-26.1	-26.0	-26.1	-26.1	-25.9	-25.1	-24.7	-24.5	-24.5	-24.9	-24.7
4.	-24.2	-24.1	-24.0	-23.9	-23.8	-23.2	-23.1	-22.6	-22.1	-21.3	-21.0	-20.6	-20.0	-19.5	-19.1	-18.6	-18.4	-18.2	-18.0	-17.7	-17.3	-17.0	-16.7	-16.7
5.	-16.6	-16.7	-16.3	-16.3	-16.3	-16.0	-16.3	-17.1	-16.1	-17.4	-18.4	-19.2	-19.9	-20.7	-21.3	-22.6	-23.4	-24.1	-25.1	-25.8	-26.7	-26.3	-26.3	-27.6
6.	-27.9	-29.5	-29.7	-29.9	-30.0	-29.9	-30.5	-30.8	-31.1	-31.7	-31.0	-30.1	-29.0	-28.2	-27.5	-27.1	-27.3	-27.9	-28.9	-29.1	-30.0	-31.3	-31.1	-30.1
7.	-31.5	-32.6	-31.2	-31.0	-31.9	-33.1	-31.9	-32.1	-33.7	-32.0	-30.4	-29.0	-27.5	-26.1	-25.0	-24.7	-24.6	-25.7	-25.5	-23.8	-24.5	-23.7	-23.2	-22.7
8.	-24.5	-28.1	-29.3	-30.5	-31.6	-33.3	-33.6	-34.5	-35.5	-34.6	-34.2	-32.7	-31.6	-31.7	-29.9	-29.1	-28.3	-29.1	-29.8	-30.2	-30.1	-30.1	-30.2	-29.5
9.	-29.4	-29.9	-30.1	-31.7	-29.7	-28.8	-30.0	-32.1	-30.9	-29.9	-30.3	-30.8	-31.2	-31.7	-31.8	-32.2	-32.7	-33.5	-34.0	-34.5	-33.9	-33.3	-32.9	-33.0
10	-32.0	-31.3	-30.7	-30.2	-30.0	-30.0	-29.8	-29.8	-29.6	-29.3	-28.7	-27.8	-26.8	-25.1	-24.2	-23.0	-22.5	-22.8	-22.9	-22.8	-23.1	-22.9	-23.2	-23.5
11	-24.2	-24.4	-25.0	-24.2	-23.6	-23.2	-23.5	-23.9	-24.0	-23.6	-25.1	-25.5	-25.2	-24.5	-23.7	-23.7	-23.8	-25.1	-27.2	-27.9	-25.8	-26.3	-26.3	-26.7
12	-27.5	-27.7	-28.1	-28.3	-28.1	-29.0	-29.2	-29.7	-30.4	-28.9	-25.5	-24.4	-23.3	-23.0	-22.0	-22.0	-22.3	-23.5	-23.8	-23.3	-23.1	-22.5	-22.5	-22.0
13	-22.1	-22.0	-21.6	-21.3	-21.2	-21.0	-21.3	-21.2	-20.9	-20.7	-20.6	-20.5	-20.6	-20.6	-21.0	-21.4	-22.1	-22.7	-23.6	-24.7	-24.5	-25.4	-26.5	-27.5
14	-27.6	-28.2	-28.6	-28.1	-26.0	-26.2	-26.0	-24.4	-23.9	-23.6	-22.7	-21.7	-21.2	-20.7	-20.3	-20.0	-19.3	-18.7	-19.6	-18.4	-17.6	-16.8	-16.3	-16.8
15	-16.3	-17.5	-19.3	-20.9	-22.7	-24.5	-25.6	-27.6	-28.5	-29.5	-29.8	-29.5	-29.0	-29.0	-29.5	-29.4	-29.5	-29.5	-29.5	-29.7	-30.0	-30.5	-30.2	-30.1
16	-30.3	-30.4	-31.0	-30.7	-30.6	-31.6	-31.9	-34.1	-34.7	-34.7	-33.2	-32.2	-31.5	-30.4	-29.7	-29.4	-29.1	-29.8	-30.7	-31.4	-31.6	-31.4	-31.3	-33.0
17	-33.0	-34.9	-34.6	-34.6	-34.6	-33.5	-32.9	-32.4	-31.7	-31.0	-29.7	-28.6	-27.5	-26.1	-25.0	-24.0	-24.8	-25.2	-26.2	-26.4	-26.4	-26.4	-26.6	-27.4
18	-28.2	-28.9	-28.2	-32.1	-31.2	-30.1	-31.0	-31.0	-29.1	-29.0	-27.8	-26.2	-23.1	-22.0	-20.9	-19.2	-18.5	-18.6	-18.3	-18.3	-17.9	-17.6	-17.6	-18.1
19	-18.8	-19.5	-20.0	-20.4	-24.9	-25.7	-27.2	-27.6	-28.3	-28.0	-28.9	-28.1	-27.4	-27.3	-27.0	-26.8	-27.2	-28.9	-30.3	-30.5	-31.5	-33.7	-34.5	-34.5
20	-33.7	-36.3	MISSING	MISSING	-35.2	-35.1	-34.9	-30.9	-28.8	-29.1	-32.0	-31.0	-31.0	-29.0	-28.0	-27.0	-26.3	-25.8	-25.4	-25.2	-25.0	-24.5	-24.3	-24.0
21	-23.8	-24.3	-25.5	-26.4	-28.1	-28.6	-29.3	-30.1	-29.7	-29.0	-28.7	-28.0	-27.2	-26.1	-25.7	-24.9	-24.4	-24.4	-25.9	-26.7	-27.0	-27.0	-25.7	-25.3
22	-21.5	-21.8	-22.2	-22.3	-22.6	-23.3	-23.7	-24.2	-24.8	-25.3	-26.0	-26.3	-26.3	-25.7	-25.7	-26.4	-27.1	-27.8	-29.0	-29.8	-30.0	-30.3	-31.3	-31.3
23	-32.2	-32.7	-32.7	-34.0	-34.7	-35.2	-35.1	-35.4	-34.4	-33.6	-31.5	-30.5	-29.7	-28.4	-27.9	-27.5	-27.8	-27.5	-27.3	-27.3	-26.7	-26.4	-26.4	-26.4
24	-26.2	-26.5	-28.3	-28.0	-29.0	-30.7	-30.5	-31.2	-31.5	-29.4	-27.6	-25.2	-24.9	-24.7	-24.7	-24.6	-24.2	-24.0	-24.0	-23.7	-24.1	-25.1	-26.0	-26.0
25	-27.0	-27.0	-26.9	-26.9	-26.8	-26.6	-26.5	-25.3	-24.5	-23.3	-21.5	-19.5	-17.9	-16.3	-13.9	-11.8	-11.0	-9.0	-7.2	-6.3	-6.8	-7.2	-7.7	-6.3
26	-8.2	-8.1	-8.0	-8.2	-8.3	-8.1	-8.0	-7.4	-5.7	-5.2	-5.8	-6.9	-7.1	-8.4	-8.6	-9.0	-10.3	-11.3	-13.6	-15.3	-17.0	-17.9	-19.9	-20.4
27	-20.8	-21.2	-22.3	-22.8	-22.4	-22.8	-22.8	-22.7	-23.0	-22.4	-21.4	-21.8	-19.7	-18.9	-18.0	-17.5	-17.5	-17.9	-18.9	-19.0	-19.1	-19.4	-18.7	-19.3
28	-18.8	-18.1	-17.2	-17.2	-16.7	-16.4	-15.8	-16.0	-15.6	-14.9	-13.5	-14.1	-15.5	-15.5	-17.2	-19.1	-19.0	-21.4	-22.6	-22.5	-22.7	-23.2	-23.4	-23.4
29	-23.9	-25.9	-27.5	-28.2	-30.0	-30.0	-30.8	-30.5	-30.7	-30.9	-29.5	-28.1	-27.0	-26.1	-25.2	-25.2	-24.9	-24.7	-25.6	-26.8	-26.8	-27.0	-27.8	-28.1
30	-28.8	-29.2	-29.3	-29.0	-29.6	-28.2	-28.1	-26.9	-26.3	-24.7	-23.6	-22.5	-22.2	-20.8	-19.9	-18.9	-18.9	-19.5	-20.0	-19.4	-19.3	-19.9	-20.2	-20.2
31	-24.8	-25.4	-25.3	-25.7	-26.1	-26.3	-26.5	-26.6	-26.5	-26.1	-25.6	-24.8	-24.1	-23.5	-23.0	-22.9	-22.9	-23.3	-23.8	-23.9	-24.0	-24.1	-24.3	-24.5

Note: Wet-bulb missing for 02,03 CST 20th due to temp. being too cold. Only dry-bulb available for those hours.

INTERNATIONAL AIRPORT FOR THE MONTH OF JANUARY

ABSTRACT OF THE WIND AT WINNIPEG
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	PEAK GUSTS	TIME (CST)
1	N 7	N 9	NNE 7	NNE 6	ENE 7	ENE 6	ENE 7	ENE 6	ENE 7	ENE 6	NNE 6	NNE 2	NNE 2	NNE 11	NE 13	ENE 11	ENE 13	ENE 13	ENE 17	E 17	E 20	E 20	ESE 28	E 28	39	23.56
2	E 31	E 28	E 35	E 26	ENE 31	ENE 19	ENE 19	ENE 15	ENE 13	ENE 13	NNE 9	N 17	N 17	NNW 17	NNW 24	NNW 30	NNW 31	NNW 30	NNW 26	NNW 30	NNW 24	NNW 24	NNW 24	NNW 24	50	01.49
3	WNW 26	WNW 26	WNW 22	WNW 17	W 20	WNW 17	WNW 11	WNW 11	WNW 11	WNW 17	WNW 13	WNW 15	WNW 13	WNW 6	WNW 6	WNW 9	WNW 0	WNW 0	WNW 0	WNW 11	WNW 7	WNW 13	WNW 9	WNW 0	35	00.07
4	ENE 13	E 13	ESE 15	ESE 13	ESE 17	ESE 15	ESE 15	ESE 15	ESE 15	ESE 15	SE 11	SE 15	SE 15	SSE 15	SE 11	SE 13	SE 9	SSE 9	SE 6	SE 4	SE 0	C 0	ENE 11	ESE 9	67	13.26
5	ESE 9	SE 4	ENE 9	ENE 13	NNE 15	NNE 19	NNE 28	NNE 28	NNE 35	NNW 28	NNW 35	NNW 43	NNW 50	NNW 43	NNW 43	NNW 44	NNW 48	NNW 41	NNW 31	NNW 31	NNW 26	NNW 30	NNW 31	NNW 24	63	08.16
6	W 19	W 19	W 20	W 22	W 24	W 22	W 24	W 26	W 24	W 26	W 24	W 22	W 22	W 22	W 20	W 19	WSW 17	WSW 11	WSW 11	WSW 13	WSW 7	WSW 9	WSW 9	WSW 9	35	23.58
7	S 6	S 9	SSW 17	SSW 15	S 13	S 17	S 15	S 15	S 15	S 15	S 19	S 19	S 20	S 17	S 17	S 17	S 20	S 19	SSW 15	SSW 17	SSW 2	NNW 28	NNW 33	NNW 41	65	00.25
8	NNW 48	NNW 44	NNW 37	NNW 33	NNW 26	NNW 24	NNW 26	NNW 24	NNW 24	NNW 26	NNW 24	NNW 13	NNW 13	NNW 19	NNW 17	NNW 22	NNW 17	NNW 17	NNW 19	NNW 19	NNW 19	NNW 19	NNW 24	NNW 24	72	10.04
9	W 22	WNW 20	WNW 22	WNW 17	WNW 31	WNW 20	WNW 22	WNW 22	WNW 48	WNW 52	WNW 48	WNW 50	WNW 48	WNW 48	WNW 54	WNW 43	WNW 56	WNW 44	WNW 30	WNW 31	WNW 37	WNW 31	WNW 35	WNW 30	72	13.37
10	WNW 35	WNW 37	WNW 43	WNW 43	WNW 44	WNW 46	WNW 46	WNW 46	WNW 41	WNW 48	WNW 41	WNW 46	WNW 44	WNW 48	WNW 52	WNW 52	WNW 48	WNW 44	WNW 41	WNW 41	WNW 39	WNW 39	WNW 35	WNW 39	41	00.25
11	NNW 28	NNW 26	NNW 26	NNW 24	NNW 28	NNW 26	NNW 26	NNW 24	NNW 24	NNW 26	NNW 24	NNW 22	NNW 24	NNW 22	NNW 22	NNW 22	NNW 19	NNW 9	NNW 11	NNW 13	NNW 15	NNW 15	NNW 11	NNW 13	31	22.56
12	NNW 9	NNW 13	NNW 9	NNW 4	NNW 7	NNW 9	NNW 11	NNW 4	NNW 4	NNW 0	NNW 4	NNW 9	NNW 13	NNW 11	NNW 11	NNW 6	NNW 11	NNW 11	NNW 11	NNW 15	NNW 13	NNW 22	NNW 19	NNW 24	69	16.32
13	SSE 22	SSE 20	SSE 22	SSE 19	SSE 13	SSE 9	SSE 7	SSE 7	SSE 7	SSE 6	SSE 9	SSE 15	SSE 11	SSE 9	SSE 11	SSE 7	SSE 7	SSE 7	SSE 0	SSE 11	SSE 11	SSE 7	SSE 7	SSE 9	70	01.28
14	SSW 13	SSW 11	SSW 15	SSW 17	SSW 22	SSW 26	SSW 37	SSW 37	SSW 41	SSW 41	SSW 43	SSW 31	SSW 41	SSW 44	SSW 44	SSW 41	SSW 39	SSW 41	SSW 44	SSW 41	SSW 28	SSW 11	SSW 19	SSW 28	46	04.14
15	NNW 50	NNW 52	NNW 46	NNW 52	NNW 43	NNW 44	NNW 41	NNW 28	NNW 41	NNW 28	NNW 37	NNW 31	NNW 37	NNW 46	NNW 43	NNW 46	NNW 46	NNW 41	NNW 39	NNW 44	NNW 37	NNW 33	NNW 35	NNW 46	46	04.14
16	NNW 31	NNW 28	NNW 24	NNW 22	NNW 17	NNW 28	NNW 22	NNW 22	NNW 17	NNW 20	NNW 19	NNW 19	NNW 24	NNW 24	NNW 26	NNW 20	NNW 17	NNW 9	NNW 7	NNW 9	NNW 11	NNW 11	NNW 9	NNW 13	46	04.14

17	S	SSE	S	S	SSE	SSE	SE	SSE	SE	SSE	ESE	E	E	E	E	E	ESE				
	13	13	13	13	17	15	13	17	15	19	13	11	9	11	15	13	17	15	13	13	
18	SE	ESE	SSE	NNE	NNE	SSW	SE	ESE	ESE	SE	SSE	SE	SSE	SE	ESE	SE	SSE	SSW	WNW		
	9	11	4	6	4	6	7	2	13	19	17	24	22	20	20	17	20	24	20	15	31
																					12.06
19	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	W	WNW	NW	NNW	NNW	
	19	30	26	37	26	31	22	30	31	28	20	28	24	28	24	19	6	13	15	17	48
20	S	C	C	NNW	NE	C	SSE	E	NNE	NE	N	NNE	N	N	NNE	NE	NNE	NNE	NNE	NNE	
	4	0	0	9	11	0	13	9	11	7	9	13	15	20	28	24	22	24	22	20	37
21	NNE	NNE	N	N	N	N	N	NNE	NNE	N	N	N	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	
	19	19	17	17	15	17	11	17	20	15	20	22	24	20	22	20	26	24	24	22	37
22	NNE	NE	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	N	NNE	N	
	26	28	28	31	31	37	30	39	35	31	35	33	35	41	43	52	54	50	52	52	74
23	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NNW	NNW	N	NNW	
	56	54	54	50	54	43	41	48	41	46	44	43	41	37	39	39	37	35	33	20	72
24	NW	NW	NW	NNW	NW	W	W	NE	NE	C	SSE	E	ENE	SE	ENE	E	N	N	N	NE	
	19	20	19	13	13	13	2	7	6	11	0	6	6	9	6	13	11	6	11	11	
25	N	NNW	NNE	NW	NW	NW	WNW	WNW	WSW	WSW	S	SSE	S	S	S	S	S	S	S	S	
	9	11	6	6	11	6	6	7	7	7	2	7	17	17	22	24	24	20	24	20	35
26	S	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	
	17	15	17	17	13	20	19	22	22	26	26	30	33	31	35	39	44	41	56	69	106
27	S	W	S	S	S	S	S	SW	WNW	NW	NW	WNW	WNW	W	WNW	W	WNW	W	WNW	WNW	
	50	44	46	41	46	31	35	24	20	41	37	43	26	30	35	24	30	35	37	39	72
28	WNW	WNW	W	WSW	WSW	SW	WSW	WSW	WSW	W	W	WSW	W	W	WSW	SW	SSW	SSW	S	S	
	30	24	20	20	20	20	22	24	26	30	33	33	35	31	20	19	15	9	13	7	48
29	S	ESE	ESE	SSE	SE	SSE	S	S	SW	W	NNW	WNW	WNW	NW	WNW	NW	NW	NNW	NNW	NNW	
	13	7	17	13	15	24	28	19	20	17	17	22	31	41	39	44	33	28	24	26	59
30	NNW	NNW	NW	NNW	NW	NW	WNW	WNW	WNW	W	WNW	WNW	W	SSW	SSW	S	SSW	SSW	S	SSW	
	31	24	20	15	11	20	15	17	15	17	13	17	20	20	22	13	9	9	11	13	37
31	S	S	S	S	SE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
	17	19	22	24	22	26	35	35	33	41	37	41	41	37	31	31	31	26	31	24	65

MEAN 22.621,922,321,521,022,021,121,619,222,822,223,824,925,325,826,225,522,522,423,621,721,322,422,8

WIND CHILL FOR JANUARY 1982 YWG - WINNIPEG MANITOBA

FACTORS OF 1200 WATTS/SQ.M. OR LESS ARE SHOWN AS 0

DAY	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	0	0	0	0	0	0	0	0	0	0	0	0	0	1629	1702	1666	1632	1699	1660	1723	1781	1764	1898	1894
2	1935	1880	1949	1819	1884	1744	1666	1646	1554	1489	0	1557	1567	1573	1715	1815	1902	1951	1934	2023	1956	1984	2011	2025
3	2046	2067	2018	2094	1926	2050	2020	1980	1826	1986	1841	1869	1822	0	0	0	0	0	0	1670	0	1723	0	0
4	1717	1714	1761	1848	1702	1786	1780	1718	1702	1677	1565	1656	1637	1622	1507	1546	0	0	0	0	0	0	1449	0
5	0	0	0	1471	1477	1517	1501	1774	1742	1868	1969	2049	2073	2057	2080	2145	2202	2176	2113	2138	2085	2127	2153	2080
6	1978	2030	2080	2090	2133	2166	2150	2235	2211	2263	2167	2136	2099	2069	2077	1952	1913	1765	1794	1865	0	0	0	0
7	0	0	2040	1981	2009	2046	1949	2072	2067	2012	2066	2017	2010	1875	1834	1824	1907	1907	1811	1827	0	2011	2070	2122
8	2249	2361	2335	2338	2263	2283	2329	2145	1988	2033	0	1976	1940	2102	1999	2099	1945	2017	2087	2053	2050	2050	2173	2149
9	2109	2087	2133	2056	1993	2312	2287	2160	2164	2461	0	2509	2525	2531	2573	2503	2620	2570	2408	2455	2507	2411	2447	2372
10	2414	2410	2449	2426	2435	2446	2436	2436	2342	2374	2410	2361	2307	2269	2253	2206	2163	2149	2153	2119	2117	2109	2083	2132
11	2026	2004	2025	1967	2004	1962	2027	2015	1967	1942	1960	2039	2001	1904	1913	1913	1845	0	1745	1826	1817	1832	1716	1789
12	0	1822	1835	0	0	0	1817	0	0	0	0	1684	1617	1588	0	1600	1635	1644	1739	1681	1876	1796	1887	
13	1862	1827	1845	1773	1767	1627	0	0	0	0	0	1656	1548	0	1562	0	1702	0	0	1673	1667	0	0	0
14	1822	1777	1910	1945	1998	2071	2093	2148	2129	2153	2134	1985	2061	2057	2056	2016	1973	1966	2029	1955	1791	1441	1601	1763
15	1931	1988	2082	2092	2202	2207	2265	2309	2182	2217	2354	2273	2324	2411	2395	2427	2431	2381	2370	0	2380	2323	2343	2462
16	2302	2249	2204	2160	2025	2295	2197	2275	2155	2253	2157	2121	2221	2177	2183	2067	1971	0	0	0	1873	1867	0	1982
17	1985	2039	2030	2030	2030	2114	2040	1964	2056	1961	2040	1850	1816	1710	0	1646	1783	1741	1843	1826	1777	1832	1786	1810
18	0	1794	0	0	0	0	0	0	0	1865	1978	1882	1925	1855	1784	1721	1637	1711	1770	1701	1569	0	1461	1578
19	1682	1879	1850	1998	2025	2135	2038	2178	2229	2164	2057	2167	2080	2139	2066	1946	1959	0	1901	1965	2053	1936	0	0
20	0	0	0	0	1980	0	0	1922	0	1800	0	1922	1919	2027	2128	2104	2025	1977	2004	1964	1907	1940	1930	0
21	1848	1864	1859	1891	1894	1964	1934	2009	1820	1971	2050	1888	2000	2001	2018	1920	1940	1904	2057	2053	2086	2031	2053	2008
22	2029	2015	1987	2029	2029	2091	2084	1976	2079	2039	1975	1987	1945	1949	1981	2027	2079	2083	2097	2069	2083	2113	2144	0
23	2173	2176	2192	2175	2208	2157	2157	2238	2202	2267	2260	2272	2260	2196	2215	2242	2249	2221	2235	2060	2043	2093	2180	2136
24	2121	2183	2138	2012	2036	2051	0	0	0	1933	0	0	0	0	1813	1759	0	1745	1745	1894	1777	1783	0	0
25	0	1722	0	0	1797	0	0	0	0	0	0	1837	1831	1947	1977	1967	1887	1956	1881	1930	1927	1872	1823	0
26	1907	1857	1904	1901	1792	1977	1933	1971	1943	1966	1903	1883	1864	1782	1734	1682	1689	1589	1583	1581	1613	1577	1593	1632
27	1616	1584	1587	1562	1598	1484	1515	1381	1266	1440	1428	1512	1385	1455	1515	1534	1474	1585	1712	1792	1879	1904	1988	1956
28	1922	1860	1831	1847	1831	1847	1883	1911	1952	1980	1989	2000	1942	1869	1681	1627	1538	1554	0	1549	0	0	0	1609
29	1546	0	1583	1513	1547	1705	1749	1581	1621	1535	1513	1568	1705	1840	1894	2010	1904	1923	1911	1934	1911	2036	2106	2066
30	2065	2025	2010	1894	1826	2093	1975	2018	1972	2034	1874	1939	1990	1960	1930	1967	1735	0	0	1730	1795	1801	1826	1945
31	1967	2027	2109	2135	2120	2171	2269	2224	2176	2199	2121	2111	2096	2009	1916	1876	1876	1902	1873	1902	1798	1897	1764	1724

SUMMARY

GREATER THAN 1400 WATTS/SQ.M.	50	GREATER THAN 1900 WATTS/SQ.M.	347	GREATER THAN 2300 WATTS/SQ.M.	46
NUMBER OF HOURS=	11	NUMBER OF DAYS=	25		5