



METEOROLOGICAL SUMMARY E MÉTÉOROLOGIQUE MENSUEL

10076850 DEST EE REF COPY 01

VOL ISS JAN 81
MONTHLY METEOROLOGICAL SUMMARY, WINNIPEG, MANITOBA

JANUARY / JANVIER

19 81

G INT'L AIRPORT / AEROPORT INTERN. DE WINNIPEG

LAT: 49° 54' N			LONG: 97° 14' W			ELEVATION: ALTITUDE:		METRES (ASL) MÈTRES (NMM): 239.6 M		STANDARD TIME USED: HEURE NORMALE UTILISÉE: CENTRAL						
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE
	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	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h		km/h		
1	-9.1	-22.0	-15.6	33.6	0.0	85	63		Tr.	Tr.	2	23.1	N	N 43	6.9	
2	-20.8	-30.0	-25.4	43.4	0.0	81	65		2.8	2.0	3	14.8	NNE	NNE 31	2.8	
3	-23.2	-31.8	-27.5	45.5	0.0	100	66				4	6.3	Calm	W 15*	5.5	
4	-15.7	-28.7	-22.2	40.2	0.0	78	56		Tr.	Tr.	4	19.5	S	S 44	5.3	
5	-5.4	-16.2	-10.8	28.8	0.0	94	69	0.2	Tr.	0.2	4	21.1	S	S 37	0.0	
6	-9.2	-26.6	-17.9	35.9	0.0	86	54			0.4	4	25.2	N	N 37	7.8	
7	-17.5	-26.7	-22.1	40.1	0.0	87	61				4	4.4	SSE	ENE 13	2.2	
8	-12.8	-24.1	-18.5	36.5	0.0	83	68			0.2	4	17.3	SSW	N 35	0.3	
9	-20.3	-28.5	-24.4	42.4	0.0	86	66				4	16.4	W, NW	NNW 24	6.6	
10	-17.0	-26.7	-21.9	39.9	0.0	86	58		Tr.	Tr.	4	3.4	NNW	W 9*	6.9	
11	-8.4	-24.3	-16.4	34.4	0.0	93	78		Tr.	Tr.	4	13.4	SSW	SSW 22*	0.2	
12	-4.7	-12.3	-8.5	26.5	0.0	91	76				4	14.7	WNW	WNW 24	7.5	
13	-2.7	-14.7	-8.7	26.7	0.0	90	81			0.3	3	7.0	Calm	N 28	2.3	
14	-6.1	-19.3	-12.7	30.7	0.0	89	69	Tr.	0.2	0.2	3	24.0	N	N 35*	0.1	
15	-14.1	-21.8	-18.0	36.0	0.0	83	72		Tr.	Tr.	3	17.4	NNW	NNW 24	3.8	
16	-6.0	-22.5	-14.3	32.3	0.0	84	73		Tr.	Tr.	3	16.7	SSW	SSW 33	0.6	
17	1.7	-7.4	-2.9	20.9	0.0	76	55				3	24.7	W	W 31*	8.4	
18	0.2	-13.8	-6.8	24.8	0.0	89	67				3	18.5	S	W 30	8.2	
19	-6.5	-15.1	-10.8	28.8	0.0	87	76				3	15.9	NW	NNW 22*	8.4	
20	-2.0	-16.5	-9.3	27.3	0.0	86	69				3	12.7	SSW	SW 22	6.9	
21	0.2	-11.2	-5.5	23.5	0.0	88	68				3	14.3	WNW	W 20*	8.1	
22	2.0	-10.1	-4.1	22.1	0.0	95	66				3	10.5	WNW	WNW 22	7.9	
23	1.0	-6.4	-2.7	20.7	0.0	97	78				2	9.9	S	S 15	5.9	
24	-2.9	-9.0	-6.0	24.0	0.0	98	89				2	3.6	Calm	S 11	0.0	
25	-3.0	-7.7	-5.4	23.4	0.0	99	89	0.2	17.4	17.2	2	21.6	N	N 41	0.0	
26	-6.8	-23.8	-15.3	33.3	0.0	87	72		0.9	0.9	21	24.7	N	N 41	7.2	
27	-11.2	-22.8	-17.0	35.0	0.0	84	70		Tr.	Tr.	20	13.2	W	NW 24	2.5	
28	-13.2	-24.0	-18.6	36.4	0.0	87	69		Tr.	Tr.	20	17.3	N	N 28	5.5	
29	-14.8	-28.0	-21.4	39.4	0.0	95	67		Tr.	Tr.	20	2.7	Calm	NW 9*	8.0	
30	-6.6	-21.1	-13.9	31.9	0.0	88	67		0.3	0.3	19	22.0	S	S 37	3.8	
31	-6.5	-17.1	-11.8	29.8	0.0	87	75		Tr.	1.9	19	21.1	N	N 43*	0.0	
MEAN MOYENNE	-8.4	-19.7	-14.1	994.4	0.0	88	69	0.0	0.4	24.4	23.2	15.4	N	S 44	139.6	
NORMAL NORMALE	-13.4	-23.2	-18.3	1125.6	0.0	88	70	0.0	0.3	24.9	23.6	19.5	NW	57	112.5	

DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS

DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS

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	TOTALS: mm					TOTALS: 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	994.4	1140.0	1125.6	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0	9	3	2	1	0	9	3	2	1	0
ACCUMULATED SINCE JULY 1 DEPUIS LE 1 ^{er} JUILLET	3333.2	3355.7	3371.6	ACCUMULATED SINCE APRIL 1 DEPUIS LE 1 ^{er} AVRIL	1916.3	1574.6	1787.8	9	3	2	1	0	9	3	2	1	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 and annual

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS										JANUARY		1981		
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	2.0	22	0.0	13	-0.1	7.8	23	1942	-11.7	11	1950	110				
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	-31.8	3	-32.3	29	-37.4	-25.0	14	1931	-44.4	15	1877	110				
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	-14.1		-18.8		-18.3	-10.6		1944	-26.9		1875	110				
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	0.4		Tr.		0.3	3.8		1944	Nil (Most Years)		1881	110				
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	24.4		35.5		24.9	85.3		1916	2.8		1902	110				
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	23.2		34.0		23.6	85.3		1916	2.5		1973	110				
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	9		12		12	20		1954	3		1973	98				
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	0.2	5 25	Tr.	1 15		3.8	20	1944				110				
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	17.4*	25	18.6	10*		31.8	2	1907				110				
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	17.2*	25	18.2	10*		31.8	2	1907				110				
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	5 25	Tr.	1 15		3.8	20	1944				110				
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	15.4		19.4		19.5	22.9		1947	12.6		1979	61				
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	S 44	4	NW 65	13	57	N 79	13	1948 1942				43				
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	N 65	25	NW 98	13	76	NW 98*	13	1980				36				
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	139.6		123.8		112.5	160.4		1959	63.5		1931	82				
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	99.15		98.95		98.96	99.72		1966	98.21		1947	43				
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	100.98	10	100.74	30	100.83	102.11*	10	1949				43				
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.66	25	95.72	13	96.63				94.81	14	1947	43				
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					
1972	1.1	-38.9	-22.0	Nil	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	NNW43	141.2	990.0						
1974	-2.2	-41.7	-22.4	0.5	40.4	39.1	15.3	SSE48	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	NNE65	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						

Note: 102.11 Kps. is amended maximum pressure.
Highest pressure ever recorded in Wpg. and it occurred between hours.

1981*Jan. 25-26 24 hr. snowfall 17.9 24 hr. precip. 17.9

Jan. 10-11, 1980 snow 18.8 cm. Jan. 10-11, 1980 precip. 18.8 mm.

*Tower Wind Jan.11, 1975 NW 106.

CLIMATOLOGICAL SUMMARY FOR JANUARY 1981

AT WINNIPEG, MANITOBA

January was unusually mild. A mean temperature of minus 14.1 was 4.2 degrees above normal. Sunshine with 139.6 hours was well above the normal 112.5. Precipitation was near normal with most of it falling on the 25th when a 17.4 cm snowfall was recorded. The season's first heavy snowfall closed the airport for approximately 7 hours. The average wind was 15.4 km/h, well below the normal 19.5.

DAILY WEATHER SUMMARY FOR JANUARY 1981

AT WINNIPEG, MANITOBA

All Times Central Standard
Not Daylight

1. Above normal temperatures. Cloudy clearing late morning. Snow 1:22 a.m. to 9:13 a.m., 11:40 p.m. continued. Moderate NNW winds gusting to 45 km/h. Drifting snow.
2. Cold. Cloudy clearing early afternoon. Snow to 1:27 p.m. Mostly light winds but NNE gusts to 41 km/h in afternoon. Drifting snow. Visibility restricted in snow.
3. Cold. Mostly sunny. Light winds. Smoke over city afternoon and evening.
4. Cold. Cloudy early afternoon, otherwise sunny. Mostly light winds but S gusts to 63 km/h in evening. Drifting snow. Snow 8:12 p.m. to 9:50 p.m. Blowing snow 7:39 p.m. to 11:15 p.m. Visibility restricted in evening.
5. Mild. Cloudy. Snow 6:15 a.m. to 10:14 a.m., 11:35 p.m. continues. Snow grains 3:35 p.m. to 11:35 p.m., freezing drizzle 1:55 p.m. to 2:30 p.m., 4:13 p.m. to 6:42 p.m. Light fog in evening. Moderate S winds gusting to 54 km/h. Drifting snow.
6. Near normal temperatures. Sunny. Snow to 4:28 a.m. Moderate N winds gusting to 57 km/h. Drifting snow.
7. Below normal temperatures. Mostly cloudy. Light winds. Smoke aloft in morning.
8. Below normal temperatures. Cloudy. Snow 8:36 a.m. to 5:05 p.m. Mostly light winds but N gusts to 50 km/h in evening. Drifting snow. Visibility Occasionally restricted in snow.
9. Cold. Sunny. Light winds.
10. Cold. Sunny. Light winds. Ice crystals 9:44 a.m. to 10:13 a.m.
11. Above normal temperatures. Cloudy. Snow 12:08 p.m. to 3:15 p.m. Light winds. Light fog in afternoon. Visibility restricted.
12. Mild. Sunny. Light winds.
13. Mild. Partly cloudy. Ice crystals 9:30 a.m. to 9:53 a.m. Snow 3:35 p.m. to 5:23 p.m. Fog in morning. Visibility restricted. Mostly light winds but N gusts to 37 km/h with drifting snow late evening.
14. Mild. Cloudy. Snow or ice crystals 1:13 a.m. to 2:07 p.m. freezing drizzle 1:48 a.m. to 1:56 a.m. Blowing snow 10:37 a.m. to 10:42 a.m. Moderate N winds gusting to 44 km/h in morning. Drifting snow till late afternoon. Light fog in morning. Visibility restricted in morning.
15. Slightly above normal temperatures. Partly cloudy. Light winds. Light snow 8:22 a.m. to 9:21 a.m., 1:50 p.m. to 2:07 p.m., 5:42 p.m. to 9:18 p.m. Ice crystals 9:21 a.m. to 12:50 p.m.
16. Above normal temperatures. Mostly cloudy. Ice crystals 5:56 a.m. to 6:50 a.m., 7:09 a.m. to 2:15 p.m. Snow 6:50 a.m. to 7:09 a.m. Mostly light winds but WSW gusts to 41 km/h in evening.
17. Mild. Sunny. Moderate W winds gusting to 44 km/h in evening.
18. Mild. Sunny. Mostly light winds but W gusts to 37 km/h early morning.
19. Mild. Sunny. Light winds.
20. Mild. Cloudy clearing late morning. Mostly light winds.
21. Mild. Sunny. Mostly light winds but WNW gusts to 31 km/h in evening.
22. Mild. Sunny. Light winds.
23. Mild. Cloudy clearing mid morning. Light. Light fog late evening. Visibility restricted.
24. Mild. Cloudy. Heavy fog most of the day. Visibility severely restricted 5:06 a.m. continued.
25. Mild. Cloudy. Heavy fog till 5:00 a.m. Light fog till early afternoon. Freezing drizzle 6:55 a.m. to 8:07 a.m. Ice pellets 7:47 a.m. to 8:26 a.m. Snow sometimes heavy 7:41 a.m. to 11:45 p.m. Roads blocked. Traffic accidents. Airport closed for seven hours. Young man died of exposure near Grand Rapids. Visibility poor all day. Drifting snow. Unofficial reports of 75 cm at La Riviere. Moderate N winds gusting to 65 km/h late evening.
26. Above normal temperatures. Cloudy clearing mid morning. Snow 2:50 a.m. to 8:19 a.m. Ice crystals 11:20 a.m. to 2:13 p.m. Moderate N winds gusting to 56 km/h early morning. Drifting snow. Roads still blocked. Red River College closed.
27. Above normal temperatures. Partly cloudy. Snow 4:08 p.m. continued. Light winds.
28. Near normal temperatures. Cloudy clearing late morning. Snow to 00:30 a.m., 8:54 a.m. to 2:28 p.m. Ice crystals 1:22 a.m. to 3:38 a.m. Mostly light winds but N gusts to 41 km/h in morning. Drifting snow.
29. Below normal temperatures. Mostly sunny. Ice crystals 9:30 a.m. to 2:00 p.m., 6:30 p.m. to 6:38 p.m., 10:33 p.m. to 10:54 p.m. Heavy fog or ice fog 6:15 a.m. to 10:35 a.m. Visibility severely restricted. Light fog till afternoon. Smoke over city afternoon and evening. Light winds.
30. Above normal temperatures. Sunny becoming cloudy mid afternoon. Snow 1:46 p.m. to 10:36 p.m. Visibility restricted. Blowing snow 2:19 p.m. to 2:55 p.m. Drifting snow. Moderate S winds gusting to 48 km/h early afternoon.
31. Mild. Cloudy. Freezing drizzle 1:59 a.m. to 2:37 a.m. Snow or snow grains 1:33 a.m. to 10:10 p.m. Ice crystals 11:59 p.m. continued. Blowing snow 5:43 p.m. continued. Drifting snow. Visibility restricted. Moderate N winds gusting to 56 km/h in evening.

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JANUARY 1961
 LOCAL STANDARD TIME

PAGE 4

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.	-9.1	-12.1	-12.0	-13.0	-12.9	-12.3	-12.1	-12.0	-11.5	-11.5	-13.1	-14.1	-14.7	-15.0	-15.2	-15.6	-17.3	-19.0	-20.0	-21.4	-21.6	-21.9	-21.5	-21.3
2.	-21.0	-21.2	-21.0	-21.0	-21.0	-21.0	-21.0	-21.0	-21.0	-21.0	-21.0	-21.0	-21.0	-22.2	-22.7	-23.5	-24.1	-25.9	-26.9	-27.9	-28.0	-28.0	-29.5	-29.5
3.	-30.0	-30.5	-30.2	-30.7	-31.2	-31.6	-31.0	-29.8	-29.6	-28.7	-27.2	-25.7	-24.9	-23.7	-23.3	-23.7	-23.9	-25.1	-24.8	-25.2	-25.6	-26.0	-27.3	-27.5
4.	-28.0	-28.2	-27.5	-28.5	-28.2	-27.7	-27.5	-26.9	-26.8	-25.3	-23.9	-22.6	-21.0	-20.0	-18.7	-18.0	-18.1	-18.1	-18.1	-18.1	-17.8	-17.1	-16.5	-16.1
5.	-16.0	-15.8	-15.6	-15.0	-13.6	-13.2	-13.2	-12.6	-11.9	-10.9	-9.3	-8.0	-6.4	-5.5	-5.5	-5.5	-5.6	-5.6	-5.9	-6.1	-5.9	-6.1	-6.5	-7.3
6.	-9.2	-10.0	-10.9	-11.5	-12.0	-13.6	-15.5	-15.9	-17.3	-20.0	-20.8	-20.5	-20.2	-19.9	-19.2	-19.0	-19.4	-20.5	-21.1	-21.6	-23.2	-23.6	-23.8	-24.3
7.	-26.6	-25.2	-25.5	-24.9	-23.8	-26.2	-24.7	-22.9	-22.5	-22.5	-22.0	-21.0	-19.5	-19.0	-18.0	-18.0	-18.2	-18.6	-18.8	-19.0	-18.7	-18.5	-18.7	-19.2
8.	-19.2	-19.4	-19.0	-18.4	-19.1	-18.8	-17.7	-17.5	-16.6	-16.1	-15.4	-14.4	-14.2	-13.2	-13.0	-13.0	-13.2	-14.5	-17.3	-19.8	-19.2	-20.6	-22.1	-23.2
9.	-23.7	-25.2	-25.2	-25.8	-25.8	-26.3	-26.2	-27.5	-28.5	-28.5	-28.0	-24.5	-23.6	-22.1	-21.3	-21.1	-20.8	-21.3	-21.3	-22.3	-21.6	-21.5	-23.2	-23.7
10.	-23.1	-24.4	-23.9	-24.2	-24.6	-25.2	-24.7	-23.8	-26.7	-25.7	-23.1	-21.4	-19.4	-17.4	-17.3	-18.5	-19.2	-20.4	-22.7	-21.7	-21.4	-20.8	-20.8	-22.0
11.	-21.8	-22.0	-23.0	-22.6	-23.7	-23.8	-24.0	-22.7	-22.0	-21.6	-19.5	-17.7	-15.7	-14.0	-12.0	-10.4	-9.0	-11.2	-10.2	-10.5	-10.8	-10.2	-10.7	-9.8
12.	-9.3	-9.3	-10.1	-10.4	-10.5	-9.1	-9.8	-9.8	-9.1	-8.9	-8.2	-7.4	-7.4	-6.0	-5.1	-5.0	-5.7	-7.3	-7.7	-11.3	-10.2	-10.7	-10.7	-12.0
13.	-11.0	-12.0	-12.9	-13.1	-11.7	-11.5	-13.1	-14.6	-12.6	-12.6	-11.0	-7.8	-6.1	-4.2	-3.5	-3.4	-4.0	-3.8	-5.2	-7.3	-7.8	-4.7	-5.6	-4.5
14.	-6.1	-7.4	-8.5	-9.1	-8.9	-10.5	-11.6	-12.9	-14.3	-14.5	-13.8	-13.8	-13.8	-14.2	-14.5	-14.8	-14.4	-14.3	-14.2	-14.2	-14.2	-15.7	-18.0	-18.8
15.	-18.8	-19.8	-19.0	-17.2	-16.6	-15.5	-16.7	-18.6	-18.6	-18.1	-17.5	-15.7	-14.6	-14.3	-14.4	-14.6	-15.0	-16.9	-16.4	-15.2	-16.3	-16.9	-19.2	-20.3
16.	-20.8	-21.3	-22.2	-21.9	-21.7	-20.8	-20.7	-19.0	-19.2	-17.0	-16.4	-15.5	-14.3	-12.5	-9.0	-9.3	-8.2	-7.2	-7.3	-6.9	-6.3	-6.2	-6.3	-6.3
17.	-6.5	-6.7	-6.6	-7.0	-7.3	-7.3	-7.1	-7.2	-7.2	-7.2	-6.0	-4.7	-2.4	-2.8	-2.2	1.0	1.5	0.0	-1.5	-2.1	-3.5	-4.3	-4.8	-5.2
18.	-5.8	-6.1	-6.8	-6.9	-6.8	-6.0	-12.1	-13.5	-12.7	-11.8	-8.7	-6.0	-4.0	-2.2	-2.2	-2.8	0.0	-2.2	-2.5	-2.8	-3.6	-3.7	-4.0	-5.2
19.	-6.5	-7.4	-7.8	-8.1	-8.5	-10.7	-11.7	-12.6	-12.7	-12.7	-12.0	-10.4	-9.2	-8.4	-7.5	-7.2	-7.8	-9.0	-10.2	-11.8	-12.2	-12.8	-14.2	-14.6
20.	-14.8	-15.2	-15.5	-16.1	-16.2	-14.4	-14.4	-13.1	-13.2	-12.4	-11.3	-9.6	-7.6	-6.5	-5.0	-3.2	-2.0	-2.6	-4.3	-4.6	-5.4	-5.8	-6.1	-5.4
21.	-6.3	-7.2	-8.0	-8.3	-8.6	-10.0	-10.3	-9.1	-7.9	-7.8	-6.6	-4.8	-3.0	-1.4	-1.3	-1.3	1.1	-1.0	-1.6	-1.5	-2.3	-4.0	-3.8	-5.0
22.	-4.8	-4.5	-4.6	-5.6	-6.0	-6.8	-6.1	-8.9	-10.0	-7.9	-6.3	-3.5	-3.9	-2.9	-1.0	1.2	1.5	0.7	1.6	-2.8	-5.5	-4.2	-3.4	-3.8
23.	-2.9	-5.9	-4.4	-4.9	-5.0	-5.6	-4.9	-5.1	-4.4	-4.3	-4.3	-3.3	-1.2	-1.6	-1.9	0.7	0.0	-1.4	-2.5	-2.2	-1.4	-1.7	-2.6	-3.0
24.	-3.1	-4.5	-4.8	-6.0	-6.8	-4.2	-4.5	-4.8	-5.2	-5.6	-5.8	-5.9	-4.8	-4.0	-3.2	-3.2	-2.9	-3.6	-6.0	-6.4	-6.5	-7.0	-8.2	-9.0
25.	-7.6	-6.3	-5.0	-5.0	-4.7	-3.8	-3.2	-4.4	-4.2	-3.6	-3.8	-4.0	-3.8	-3.8	-4.2	-3.7	-3.2	-3.4	-3.5	-3.9	-4.5	-5.2	-6.0	-6.5
26.	-7.2	-8.0	-8.4	-8.7	-9.0	-9.5	-10.6	-13.7	-15.4	-16.2	-17.2	-16.8	-17.1	-17.2	-17.0	-18.0	-18.8	-19.6	-21.1	-22.5	-22.5	-23.7	-23.8	
27.	-21.5	-22.3	-22.5	-21.4	-21.2	-21.5	-20.5	-19.4	-19.6	-19.4	-19.1	-18.3	-17.7	-16.8	-14.6	-14.3	-14.0	-13.8	-11.6	-11.2	-12.5	-12.1	-12.0	-12.9
28.	-14.0	-15.5	-16.3	-14.3	-14.0	-14.5	-14.5	-14.4	-14.1	-14.0	-14.7	-14.8	-14.8	-15.2	-14.6	-15.2	-16.1	-19.6	-18.7	-19.3	-20.3	-21.2	-23.2	-23.6
29.	-23.7	-24.5	-24.5	-24.5	-25.5	-26.8	-26.8	-26.0	-27.0	-26.4	-21.0	-20.5	-18.0	-19.2	-18.4	-15.0	-15.0	-19.9	-21.3	-21.5	-21.5	-20.6	-19.8	-20.0
30.	-19.6	-20.1	-20.4	-20.6	-20.1	-21.1	-19.8	-19.7	-19.0	-18.1	-16.2	-15.1	-13.5	-12.0	-11.0	-10.0	-9.0	-8.6	-8.3	-8.1	-7.7	-7.6	-7.0	-6.8
31.	-6.7	-6.7	-6.7	-6.8	-6.8	-6.9	-7.0	-7.2	-7.2	-8.0	-8.0	-8.1	-8.3	-8.7	-9.7	-10.0	-10.5	-10.5	-10.7	-11.4	-12.6	-13.6	-15.0	-16.0

MEAN -14.2 -14.9 -15.0 -15.1 -15.3 -15.3 -15.5 -15.6 -15.6 -15.4 -14.4 -13.4 -12.4 -11.6 -10.9 -10.6 -10.6 -10.6 -11.6 -12.2 -12.8 -13.1 -13.3 -13.9 -14.3

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JANUARY 1961

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.	-9.7	-12.4	-12.2	-13.1	-13.1	-12.6	-12.5	-12.2	-11.7	-11.8	-13.3	-14.3	-14.9	-15.2	-15.5	-15.9	-16.0	-19.3	-20.2	-21.5	-21.9	-22.1	-21.8	-21.5	
2.	-21.2	-21.3	-21.2	-21.0	-21.0	-21.2	-21.0	-21.0	-21.5	-21.6	-21.9	-22.0	-22.1	-22.2	-22.7	-23.6	-24.3	-26.0	-26.9	-27.9	-28.0	-28.0	-28.0	-29.5	-29.5
3.	-30.0	-30.5	-30.1	-30.6	-31.0	-31.4	-30.8	-29.7	-29.5	-28.7	-27.2	-25.7	-25.0	-23.8	-23.5	-23.9	-24.0	-25.2	-25.2	-24.9	-25.3	-25.6	-26.1	-27.3	
4.	-28.0	-28.2	-27.5	-27.5	-28.5	-28.2	-27.8	-27.5	-26.9	-26.8	-25.3	-24.0	-22.9	-21.2	-20.3	-19.0	-18.6	-18.4	-18.3	-18.5	-18.0	-17.3	-16.8	-16.4	
5.	-16.3	-16.2	-15.8	-15.2	-15.8	-13.4	-13.3	-12.7	-12.0	-11.0	-9.5	-8.3	-7.0	-6.0	-6.0	-6.0	-5.8	-5.7	-5.9	-6.2	-6.1	-6.3	-6.8	-7.6	
6.	-9.8	-10.5	-11.4	-11.8	-12.2	-14.2	-16.0	-16.4	-17.6	-20.4	-21.0	-21.0	-20.5	-20.1	-19.5	-19.5	-19.7	-20.7	-21.2	-21.8	-23.3	-23.7	-23.8	-24.3	
7.	-26.5	-25.1	-25.4	-24.8	-25.7	-26.1	-24.6	-22.8	-22.5	-22.5	-22.0	-21.0	-19.8	-19.3	-18.5	-18.5	-18.7	-18.9	-19.1	-19.2	-19.0	-18.8	-19.0	-19.4	
8.	-19.3	-19.6	-19.1	-18.4	-19.1	-18.8	-17.6	-16.8	-16.3	-15.6	-14.6	-14.4	-13.4	-13.4	-13.3	-13.2	-14.7	-17.5	-19.9	-19.5	-20.8	-22.2	-23.3	-23.8	
9.	-23.7	-25.1	-25.1	-25.7	-25.7	-26.1	-27.4	-28.5	-28.4	-26.0	-24.6	-23.8	-22.2	-21.5	-21.5	-21.3	-21.0	-21.4	-21.5	-22.4	-21.7	-21.6	-23.2	-22.8	
10	-23.1	-24.3	-23.9	-24.2	-24.5	-25.1	-24.6	-25.7	-26.5	-25.7	-23.1	-21.5	-19.7	-18.0	-17.6	-18.8	-19.4	-20.5	-22.7	-21.7	-21.4	-20.8	-20.9	-22.0	
11	-21.8	-22.0	-23.0	-22.5	-23.6	-23.7	-24.0	-22.6	-22.0	-21.6	-19.6	-17.8	-15.9	-14.1	-12.0	-10.6	-9.3	-11.2	-10.2	-10.4	-10.8	-10.2	-10.7	-9.9	
12	-9.5	-9.5	-10.3	-10.5	-10.6	-9.4	-10.1	-10.1	-9.5	-9.2	-8.8	-8.1	-8.0	-6.6	-5.8	-5.9	-6.3	-7.7	-7.9	-11.4	-10.2	-10.7	-10.7	-12.0	
13	-11.1	-12.1	-12.9	-13.1	-11.7	-11.5	-13.1	-14.6	-12.8	-12.6	-11.0	-8.0	-6.3	-4.8	-4.3	-4.2	-4.5	-4.2	-5.5	-7.6	-8.2	-5.3	-5.8	-5.0	
14	-6.6	-7.6	-8.6	-9.5	-10.1	-10.7	-11.8	-13.0	-14.5	-14.7	-14.0	-14.0	-14.1	-14.5	-14.7	-15.0	-14.6	-14.8	-14.5	-14.4	-15.8	-18.2	-18.8	-18.8	
15	-18.9	-19.8	-19.0	-17.3	-16.7	-15.7	-16.8	-18.7	-18.7	-18.2	-17.7	-15.9	-14.9	-14.7	-14.7	-14.9	-15.2	-17.0	-16.6	-15.4	-16.5	-17.0	-19.2	-20.3	
16	-20.8	-21.3	-22.2	-21.9	-21.7	-20.8	-20.7	-19.1	-19.3	-17.1	-15.6	-15.7	-14.5	-12.7	-9.3	-9.5	-8.6	-7.8	-7.8	-7.4	-6.8	-6.8	-7.1	-7.2	
17	-7.3	-7.5	-7.4	-7.8	-8.0	-8.0	-7.9	-8.0	-8.0	-8.0	-7.2	-6.0	-4.2	-3.0	-2.2	-1.8	-1.8	-2.7	-3.7	-4.8	-5.0	-5.7	-6.1	-6.3	
18	-6.8	-7.0	-7.6	-7.7	-7.6	-7.0	-12.3	-13.6	-12.9	-12.1	-9.5	-7.2	-5.2	-3.2	-1.8	-1.0	-1.3	-1.8	-3.2	-3.5	-4.0	-4.2	-4.8	-5.8	
19	-7.0	-7.7	-8.0	-8.7	-9.0	-10.9	-11.8	-12.7	-12.8	-12.8	-12.3	-10.7	-9.6	-8.8	-8.2	-7.8	-8.3	-9.4	-10.4	-12.1	-12.4	-13.0	-14.3	-14.7	
20	-14.9	-15.3	-15.5	-16.1	-16.2	-14.5	-14.5	-13.2	-13.3	-12.5	-11.6	-10.2	-8.6	-7.2	-5.7	-4.2	-3.0	-3.5	-3.6	-3.3	-3.5	-6.5	-6.9	-6.3	
21	-7.1	-8.0	-8.6	-8.8	-9.1	-10.3	-10.5	-9.4	-8.4	-8.8	-7.2	-5.5	-3.9	-2.5	-1.8	-1.4	-1.3	-1.9	-2.3	-2.4	-3.0	-4.4	-4.3	-5.4	
22	-5.2	-5.0	-5.1	-6.1	-6.6	-7.3	-6.8	-9.2	-10.2	-8.3	-7.0	-4.8	-4.9	-2.7	-2.6	-2.0	-1.7	-1.9	-2.3	-3.0	-3.5	-4.3	-3.5	-4.0	
23	-3.5	-6.1	-4.8	-5.2	-5.3	-5.9	-5.2	-5.5	-4.8	-4.7	-4.7	-3.9	-2.2	-1.5	-1.4	-1.5	-1.7	-2.0	-2.9	-2.4	-1.9	-2.0	-2.6	-3.0	
24	-3.1	-4.5	-4.9	-6.1	-7.0	-4.4	-4.5	-4.8	-5.1	-5.5	-3.7	-4.8	-3.8	-3.9	-3.2	-3.2	-2.9	-3.6	-5.9	-6.3	-6.4	-7.0	-8.1	-9.0	
25	-7.4	-6.1	-4.9	-5.0	-4.7	-3.8	-3.2	-4.4	-4.2	-3.6	-3.8	-4.0	-3.8	-3.8	-4.2	-3.8	-3.3	-3.5	-3.5	-4.0	-4.6	-5.4	-6.0	-6.7	
26	-7.4	-8.3	-8.7	-9.6	-9.2	-9.5	-9.7	-10.8	-13.8	-15.6	-16.4	-17.4	-17.1	-17.3	-17.4	-17.3	-18.2	-19.0	-19.8	-21.1	-22.5	-23.6	-23.7	-23.7	
27	-21.5	-22.3	-22.5	-21.4	-21.2	-21.5	-20.5	-19.4	-19.9	-19.4	-19.2	-18.5	-18.0	-17.1	-15.0	-14.7	-14.5	-14.0	-11.8	-11.6	-12.8	-12.4	-12.2	-13.1	
28	-14.1	-15.6	-16.4	-14.5	-15.0	-14.7	-14.8	-14.8	-14.7	-14.4	-14.3	-14.9	-15.1	-15.5	-14.8	-15.6	-16.5	-19.8	-18.9	-19.4	-20.4	-21.2	-23.1	-23.5	
29	-23.6	-24.3	-24.3	-24.4	-25.3	-26.6	-26.6	-25.8	-26.8	-26.2	-21.0	-20.5	-18.2	-19.3	-18.5	-18.5	-15.5	-19.9	-21.2	-21.4	-21.0	-20.5	-19.7	-19.9	
30	-19.6	-20.1	-20.3	-20.6	-20.1	-21.0	-19.7	-19.7	-18.9	-18.2	-16.4	-15.5	-14.0	-12.7	-11.5	-10.3	-9.2	-9.0	-8.6	-8.6	-8.4	-8.2	-7.9	-7.6	
31	-7.5	-7.5	-7.3	-7.2	-7.3	-7.4	-7.4	-7.5	-8.0	-6.2	-8.2	-8.5	-8.7	-9.0	-10.0	-10.4	-10.8	-10.7	-10.9	-11.6	-12.8	-13.8	-15.1	-16.1	

MEAN -14.5 -15.1 -15.2 -15.4 -15.4 -15.6 -15.7 -15.8 -15.5 -14.6 -13.8 -12.9 -12.6 -11.4 -11.1 -11.1 -11.1 -12.0 -12.5 -13.1 -13.3 -13.5 -14.1 -14.5

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	NEAREST HOUR			
1	N 43	N 26	N 20	N 19	N 9	WNW 19	WNW 20	WNW 17	WNW 20	N 28	NNE 31	NNE 35	N 30	N 37	N 37	NNE 22	NNE 19	NE 20	NNE 15	NE 22	NE 22	NE 22	NE 22	NE 22	7	2	NNE 48	15 CST	
2	C 0	C 0	C 0	C 0	C 0	SE 9	E 13	E 13	E 17	E 15	ENE 19	ENE 26	NE 30	NNE 28	NNE 30	NNE 31	NNE 19	NNE 17	NNE 19	NNE 11	NNE 20	NNE 15	NNE 9	NNE 15	9	15	NNE 41	16 CST	
3	NW 9	WNW 9	NW 11	NW 9	NW 11	NW 15	NW 13	NW 13	NW 9	WNW 15	WNW 13	WNW 13	WNW 2	C 0	C 0	C 0	C 0	C 0	E 7	SE 2	C 0	S 2	C 0	C 0	0	0			
4	C 0	C 0	C 0	C 4	C 0	SSE 7	S 9	SSE 13	S 17	SSE 17	S 17	S 24	S 28	S 30	S 33	S 26	SSE 20	SSE 22	S 28	S 44	S 35	S 35	S 35	S 41	63		S 63	23 CST	
5	S 37	S 33	S 33	S 31	S 31	S 28	SSW 22	SSW 15	SSW 13	SSW 11	WSW 11	WSW 13	WNW 15	WNW 19	WNW 19	WNW 13	WNW 13	WNW 13	WNW 11	WNW 11	WNW 17	WNW 22	WNW 26	WNW 30	30		S 54	03 CST	
6	N 35	N 28	N 24	N 20	N 26	N 35	NW 33	NW 33	N 33	N 33	N 37	N 30	N 35	N 31	N 33	N 30	N 20	N 17	N 17	NNE 17	NNE 13	NNE 11	NNE 13	NNE 11	11		N 57	09 CST	
7	NW 6	NNE 13	ENE 0	ENE 6	ENE 0	C 4	ESE 4	SSE 7	SSE 7	SSE 7	SSE 4	SSE 2	SSE 4	SSE 2	SSE 2	C 0	C 0	SSE 7	SSE 7	SSE 0	SSE 6	SSE 7	SSE 9	SSE 9	9				
8	SSW 11	SSW 13	SSW 15	SSW 15	SSW 20	SW 20	SW 20	WSW 17	WSW 17	WSW 9	WSW 11	WSW 9	WNW 15	WNW 15	WNW 11	WNW 9	WNW 17	NNE 28	NNE 24	NNE 19	N 28	N 35	N 26	N 20	20		N 50	21 CST	
9	NW 24	NW 13	NW 19	NW 19	NW 20	NW 15	NW 15	NW 11	NW 11	NW 11	NW 11	NW 13	NW 17	WNW 17	WNW 22	WNW 17	WNW 15	WNW 15	WNW 17	WNW 19	WNW 17	WNW 17	WNW 17	WNW 15	13				
10	W 9	W 7	W 7	C 0	C 0	C 0	SSW 2	SSW 2	SSW 2	S 2	S 2	S 2	S 7	NE 2	NE 4	NE 0	NE 0	C 0	C 0	C 0	C 5	SSW 6	SSW 7	SSW 9	6				
11	SSW 11	SSW 9	SSW 13	SSW 11	SSW 7	SSW 13	SSW 19	SSW 20	SSW 22	SSW 20	SSW 22	SSW 19	SSW 22	SSW 19	SSW 20	SSW 11	SSW 9	SSW 9	SSW 7	SSW 7	SSW 9	SSW 13	SSW 11	13					
12	SSW 19	SSW 15	SSW 17	SSW 4	WSW 9	WNW 19	WNW 24	WNW 22	WNW 17	WNW 17	WNW 22	WNW 22	WNW 17	WNW 15	WNW 15	WNW 13	WNW 17	WNW 13	WNW 19	WNW 11	WNW 7	WNW 11	WNW 7	WNW 7	0				
13	WNW 15	WNW 4	WNW 0	WNW 0	C 0	C 0	C 0	C 2	WSW 4	WSW 4	WSW 0	WSW 6	SSW 7	SSW 7	SSW 13	SSW 7	SSW 7	WNW 6	WNW 11	WNW 6	WNW 19	WNW 26	WNW 13	28		N 37	00 CST		
14	N 30	N 30	N 35	N 35	N 26	N 20	N 20	N 17	N 17	N 20	NNE 30	NNE 35	NNE 30	NNE 30	NNE 24	NNE 20	NNE 20	N 20	N 17	N 17	NNE 20	NNE 15	NNE 11	NNE 15	15		N 44	02 CST	
15	NW 15	NW 15	NW 19	NW 19	NW 20	NW 19	NW 17	NW 17	NW 17	NW 17	NW 15	NW 17	NW 20	NW 20	NW 24	NW 22	NW 22	NW 15	NW 17	NW 20	NW 15	NW 11	NW 13	NW 9	9				

	19 CST	21 CST	01 CST	18 CST	00 CST	01 CST	03 CST	13 CST	21 CST
16	19 7 9	24 30 30	26 30 26	31 19 19	33 22 33	31 19 17	22 19 17	33 19 17	31 19 17
17	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W
18	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W
19	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W
20	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W
21	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W
22	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W
23	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W
24	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W
25	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N
26	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N
27	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W
28	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N	N N N
29	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W	W W W
30	SSE S S	SSE S S	SSE S S	SSE S S	SSE S S	SSE S S	SSE S S	SSE S S	SSE S S
31	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W	SSW WSW W

MEAN 15.914.314.013.912.714.013.713.513.113.915.917.118.117.618.516.714.914.315.615.317.116.916.116.1

WIND CHILL FOR DECEMBER 1980

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	1903	1937	1906	1839	1944	1951	2016	1894	1931	2000	1880	1948	1905	1856	1949	1960	1845	1806	1822	1861	1783	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1691	1717	1659	1578
3	1653	1742	1735	1677	1643	1700	1637	1660	1574	1591	1518	1393	1448	1386	1422	1335	1332	1249	1284	1243	1246	1398	1231	1321	
4	1339	1305	1341	1279	1327	1368	1350	1364	1409	1371	1357	1387	1368	1308	1309	1249	1209	0	1236	1201	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	1233	1239	1229	1336	1364	1371	1448	1476	1500	1574	1519	1536	1520	
6	1591	1522	1522	1609	1609	1601	1674	1568	1492	1679	1669	1615	1632	1585	1595	1562	1554	1510	1678	1669	1582	1676	1622	0	
7	1625	1656	1533	1637	1702	1616	1708	1761	1685	1594	1663	1671	1730	1608	1595	1510	1528	0	0	0	0	0	0	0	
8	0	0	1501	1455	1529	1459	0	0	0	0	0	0	1439	0	1328	0	0	0	0	0	0	0	0	0	
9	0	1468	1568	1664	1646	1701	1923	1978	1898	1896	2073	1951	1969	2040	2029	1979	1876	1657	1855	1839	1963	1716	1814	1721	
10	1789	1812	1732	1884	1900	1888	1786	1751	1736	1733	1704	1874	1963	1845	1816	1786	1693	1664	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	1552	1646	1620	1535	1662	1618	1541	1625	1653	1754	1743	1750	1684	1636	
12	1493	1303	1429	1273	1306	1258	0	1433	1522	1622	1672	1822	1835	1890	1867	1844	1789	1800	1784	1750	1582	1647	0	1565	
13	1559	0	0	0	1545	1603	1737	1628	1653	1601	1581	1466	1486	1574	1491	1446	1439	1452	1368	1385	1575	1444	0	1561	
14	1634	1622	1579	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1445	1487	1545	1510	1598	1568	1518	
15	1603	1556	1515	1445	1252	1370	1325	0	0	0	0	0	1395	1367	1333	0	0	1445	1409	1343	1303	1339	0	0	
16	0	0	0	0	0	0	0	1294	1291	1334	1364	1371	1361	1401	1409	1402	1387	1379	1395	1372	1364	1342	1309	0	
17	1271	0	0	0	0	0	0	1263	1395	0	1462	1452	1499	1525	1526	1619	1593	1424	0	1445	1704	1821	1731	0	
18	1553	1783	1653	1791	1897	1882	1754	1936	1838	1910	2051	2184	2126	2170	2166	2118	2126	2129	2073	2073	2015	2111	2106	1994	
19	1997	2058	1956	1770	1789	1837	1843	0	0	0	1805	2004	1987	1966	2001	1946	1953	0	0	0	1720	1770	1732	0	
20	0	0	1789	0	0	0	1777	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1397	1441	1429	1374	1417	1417	1420	1415	1435	
22	1480	1429	0	1493	0	1542	0	1660	0	1660	0	1633	1520	1598	1653	1548	1575	1639	1639	1568	1642	1656	1662	1573	
23	1648	1580	1690	1675	1605	1560	1467	1627	1640	1801	1822	1882	1878	1919	1948	1832	1972	2040	1920	1985	1985	1903	2047	2034	
24	2021	1823	1944	1871	0	2004	2033	2040	2069	2030	2175	1894	1765	1881	1761	1696	1681	1764	1861	1884	1840	1998	1977	2056	
25	2066	2135	2068	2037	2050	2114	2030	1912	1883	1815	1827	1681	1641	1550	1588	1743	1649	1662	1749	1818	1781	1842	1698	1736	
26	1681	1747	0	0	0	0	0	0	0	0	0	0	0	1565	1681	1702	1787	1737	1770	1845	1815	1789	1803	1787	
27	1778	1751	1712	1657	1642	1615	1577	1540	1562	1569	1543	1494	1459	1455	1404	1376	1313	1278	0	0	0	0	0	0	
28	0	0	0	1326	1334	1331	1287	0	0	0	1260	0	0	0	1308	1385	1348	1303	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	1339	1438	1428	1488	1527	1498	1487	1520	1456	1409	1430	1389	1427	1436	1398	1422	0	
30	1382	1355	1312	1230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1246	0	0	
31	0	0	0	0	1287	1243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1255	1219	1439	1455

SUMMARY

GREATER THAN 1400 WATTS/SQ.M.	GREATER THAN 1900 WATTS/SQ.M.	GREATER THAN 2300 WATTS/SQ.M.
129	75	0
NUMBER OF HOURS=		
191		
NUMBER OF DAYS=		
23	8	0

WIND CHILL FOR JANUARY 1981
 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	1616	1577	1495	1497	0	1474	1499	1430	1479	1579	1676	1749	1771	1725	1806	1821	1720	1692	1761	1684	1849	1859	0	0	
2	0	0	0	0	0	0	1621	1621	1729	1690	1786	1924	1960	1958	2002	2055	1858	1872	1949	1765	2027	1888	0	1934	
3	0	0	1832	0	1861	1873	1981	1886	0	1910	1807	1762	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	1798	1901	1853	1960	1972	1916	1905	1901	1784	1695	1730	1813	1963	1860	1838	1871	
5	1936	1794	1787	1745	1695	1680	1639	1544	1390	1318	1226	1231	1219	1253	1253	0	0	0	0	1236	1324	1382	1448	0	
6	1567	1525	1512	1479	1574	1730	1611	1616	1849	1948	2016	1922	1975	1924	1919	1869	1741	1700	1719	1735	1687	1641	1705	1661	
7	0	1747	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	1513	1573	1609	1543	1612	1603	1685	1678	1576	0	1403	0	1461	1430	1333	0	1462	1685	1732	1718	1952	1990	1927	1867	
9	1953	1747	1894	1913	1954	1885	1967	1872	1783	1783	1710	1726	1799	1751	1839	1719	1655	1681	1726	1799	1735	1732	1739	1672	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	1588	0	1681	1612	0	1711	1612	1627	1849	1744	1650	1649	1529	1495	1258	0	0	0	0	0	0	0	1297	1267	1285
12	1376	1309	1370	0	0	1370	1474	1449	1338	1332	1395	1368	1284	1207	0	0	1230	1210	1324	1284	0	1267	0	0	
13	1362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1328	1319	0	1330
14	1405	1452	1541	1563	1500	1543	1482	1459	1503	1578	1682	1738	1738	1696	1707	1646	1575	1572	1500	1500	1568	1507	1478	1603	
15	1603	1634	1692	1633	1648	1511	1517	1640	1640	1624	1563	1548	1582	1572	1632	1612	1625	1544	1570	1602	1526	1446	1567	0	
16	0	0	0	0	0	0	0	0	1501	1607	1578	1601	1673	1527	1538	1441	1406	1339	1434	1394	1246	1331	1331	1331	
17	1360	1427	1423	1399	1410	1448	1403	1336	1336	1244	1343	1319	0	0	0	0	0	0	1207	1313	1312	1340	1358	1389	
18	1394	1368	1322	1374	1322	0	1307	1348	1452	1387	1412	1320	1253	0	0	0	0	0	1202	1212	0	1219	0	0	
19	0	0	1337	1379	1389	1421	1322	1452	1452	1430	1379	1402	1402	1371	1336	1361	1300	1373	1299	1437	1418	1417	1429	0	
20	1479	0	0	0	0	0	0	0	0	0	1219	1255	1208	0	0	0	0	0	1230	0	1276	1289	1324	1276	
21	1230	0	1231	0	0	0	1300	1225	0	0	0	0	0	0	0	0	0	0	0	0	1204	0	0	1236	
22	0	0	0	1283	1246	1295	1324	1332	0	1226	0	0	0	0	0	0	0	0	0	0	0	0	0	1223	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	1263	1287	1276	0	0	0	0	0	0	0	0	0	0	1236	1264	1316	1338	1342	1370	1379	1408	1448	1505	
26	1532	1537	1562	1563	1527	1555	1508	1603	1657	1797	1809	1781	1811	1800	1729	1589	0	0	1579	0	1609	1764	1802	1646	
27	0	1603	0	1577	1627	1687	1700	1519	0	1519	0	0	0	0	1429	1503	1362	0	1510	1469	1446	1467	1550	1459	
28	1494	1578	1638	1629	1526	1654	1608	1546	1423	1533	1591	1692	1555	1602	1639	1532	1520	1525	1600	1619	1650	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	1548	1704	1643	1674	1678	1675	1728	1663	1721	1768	1709	1687	1618	1545	1446	1495	1398	1438	1378	1219	1419	1371	
31	1262	0	0	0	0	0	0	0	0	0	1392	1422	1479	1553	1545	1498	1543	1570	1678	1750	1776	1842	1852	0	

SUMMARY

GREATER THAN 1400 WATTS/SQ.M. 127
 GREATER THAN 1600 WATTS/SQ.M. 163
 GREATER THAN 1900 WATTS/SQ.M. 29
 GREATER THAN 2300 WATTS/SQ.M. 0
 NUMBER OF HOURS= 127
 NUMBER OF DAYS= 13
 6
 0
