



# METEOROLOGICAL SUMMARY MÉTÉOROLOGIQUE MENSUEL

VOL ISS FEB 81  
MONTHLY METEOROLOGICAL SUMMARY, WIN  
NIPEG, MANITOBA

RUARY / FEVRIER

19 81

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

LAT: 49° 54'N		LONG: 97° 14'W		ELEVATION: 239.6 METRES (ASL) ALTITUDE: MÉTRES (NMM)				STANDARD TIME USED: HEURE NORMALE UTILISÉE: CENTRAL								
DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÉS JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE HEURES
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. PRÉCIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	PREVAILING DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION	
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h	km/h	HOURS		
1	-16.7	-25.1	-20.9	38.9	00	80	68		Tr.	Tr.	21	27.5	N	N 44	8.3	
2	-17.7	-24.2	-21.0	39.0	00	87	61		Tr.	Tr.	20	16.3	NW	NNW26	7.8	
3	-16.5	-23.3	-19.9	37.9	00	82	63				18	18.9	NW	NW 31	8.8	
4	-7.0	-22.7	-14.9	32.9	00	87	55		Tr.	Tr.	18	18.5	SSW	SSW31*	6.6	
5	-6.4	-9.2	-7.8	25.8	00	88	74			1.0	0.4	18	14.9	NW	NW 26	0.0
6	-6.8	-18.5	-12.7	30.7	00	94	78			2.5	1.3	18	8.1	SE	ESE15*	0.0
7	-9.0	-21.6	-15.3	33.3	00	92	72			2.4	1.6	21	24.2	N	N 43	4.3
8	-19.8	-27.9	-23.9	41.9	00	94	68			Tr.	Tr.	21	8.7	NW	NNW20	4.3
9	-20.2	-32.4	-26.3	44.3	00	96	64			Tr.	Tr.	21	16.6	NW	NW 31	8.8
10	-24.8	-35.8	-30.3	48.3	00	100	52			Tr.	Tr.	21	7.3	Calm	SW 19*	7.8
11	-23.5	-37.0	-30.3	48.3	00	100	41									
12	-18.7	-29.8	-24.3	42.3	00	87	54		Tr.	Tr.	20	6.2	W	S 9*	8.7	
13	-8.6	-20.2	-14.4	32.4	00	79	60				19	14.0	S	S 26	8.7	
14	1.1	-16.9	-7.9	25.9	00	91	74		Tr.	Tr.	19	10.9	S	SSW22	9.3	
15	5.9	-3.9	1.0	17.0	00	91	67		Tr.	Tr.	18	29.3	SSE,S	SSE56	3.0	
16	6.5	-6.3	0.1	17.9	00	93	64				17	17.5	S	S 22*	9.2	
17	5.4	-1.7	1.9	16.1	00	95	78				14	23.1	S	SSW35	5.0	
18	1.7	-2.6	-0.5	18.5	00	97	90		Tr.	Tr.	10	15.1	S	SSE30*	0.9	
19	2.0	-0.5	0.8	17.2	00	100	90				6	14.5	WNW	WNW24	0.0	
20	4.6	-0.4	2.1	15.9	00	100	79		Tr.	Tr.	4	7.7	SSE	SSE17	0.0	
21	5.6	-1.0	2.3	15.7	00	93	64				3	26.0	SSE	SE 35	0.0	
22	3.0	-5.0	-1.0	19.0	00	94	63				2	15.8	W	S 24*	6.4	
23	7.5	-5.6	1.0	17.0	00	93	52				Tr.	8.9	NW	NW 19*	4.8	
24	-1.3	-6.6	-4.0	22.0	00	84	64				Tr.	10.6	Calm	NW 30	9.9	
25	-4.8	-10.4	-7.6	25.6	00	90	73		Tr.	Tr.	Tr.	23.5	N	NW 31*	0.2	
26	4.5	-7.5	-1.5	19.5	00	82	51				Tr.	9.5	NE	NE 19	7.1	
27	0.7	-6.4	-2.9	20.9	00	90	71				Tr.	16.7	SSE	SSE30	7.9	
28	-0.2	-9.9	-5.1	23.1	00	86	68		Tr.	Tr.	Tr.	19.3	N	NNE33*	0.0	
29									Tr.	Tr.	Tr.	15.0	SW	NNW26	1.1	
30																
31																
MEAN MOYENNE	-5.5	-14.7	-10.1	787.3	00	91	66	00	Tr.	5.9	3.3	15.9	NW DOMINANTE	SSE56	138.9	
NORMAL NORMALE	-10.4	-21.1	-15.7	953.1	00	88	69	00	0.8	19.8	19.1	18.8	S	57	139.4	

  

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	mm					cm				
								0.2 OR MORE - OU PLUS	1.0 OR MORE - OU PLUS	2.0 OR MORE - OU PLUS	10.0 OR MORE - OU PLUS	50.0 OR MORE - OU PLUS	0.2 OR MORE - OU PLUS	1.0 OR MORE - OU PLUS	2.0 OR MORE - OU PLUS	10.0 OR MORE - OU PLUS	50.0 OR MORE - OU PLUS
TOTAL FOR MONTH TOTAL DU MOIS	787.3	981.5	953.1	TOTAL FOR MONTH TOTAL DU MOIS	00	00	00	3	2	0	0	0	3	3	2	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>ER</sup> JUILLET	4120.5	4337.2	4324.7	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>ER</sup> AVRIL	1916.3	1574.6	1787.8	3	2	0	0	0	3	3	2	0	0

UDC 551.506.1 (

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

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COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		FEBRUARY / FÉVRIER		19 81							
Temperature/Température — Celsius Precipitation/Précipitation — Millimetres (mm) Rainfall/Hauteur de pluie — Centimetres (cm) Snowfall/Hauteur de neige — Centimetres (cm) Wind speed/Vitesse du vent — Kilometres/par hour (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	DATE	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE			
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	7.5	23	-1.7	9	1.9	11.7	25	1958	-9.4	19	1875	110	
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	-37.0	11	-35.2	29	-35.4	-19.4	9	1878	-45.0	18	1966	110	
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	-10.1		-15.9		-15.7	-5.1		1878	-26.1		1875	110	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	Tr.		Nil		0.8	10.2		1958	Nil			110	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	5.9		18.5		19.8	89.9		1881	2.5		1903	110	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	3.3		17.6		19.1	89.9		1881	2.5		1903	110	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	3		11		10	15		1945	2		1900 1931	98	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	Tr.	15, 17 19, 20	Nil			7.6	23	1958				110	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	2.5	6*	*6.4	21		25.4	16	1921				110	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	1.6	7*	*6.4	21		25.4	16	1921				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	Tr.	15, 17 19, 20	Nil			7.6	23	1958				110	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	15.9		16.3		18.8	23.8		1954	12.6		1929	61	
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	SSE56	14	S 48 NNW48	9 26	57	NW 90	8	1960				43	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	S 80	14	SSE72	4	76	NW129	20	1965				36	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	138.9		120.8		139.4	185.9		1907	80.5		1940	76	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.58		99.19		98.90	99.57		1978	98.26		1954	43	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	100.23	13	102.06	29	100.79	102.06	29	1980				43	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.78	16	96.86	18	96.60				95.11	8	1960	43	
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES												YEARS DERNIÈRE ANNÉES	
												TEN/DIX	
												10	
YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. 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 DEGREE DAYS DEGRÉS JOURS DE CHAUFFE	GROWING DEGREE DAYS DEGRÉS JOURS DE CROISSANCE		
1972	1.7	-36.1	-19.3	Nil	13.2	10.4	13.8	S, NNW45	160.8	1083.3			
1973	2.2	-33.3	-13.9	0.8	6.6	6.4	16.6	S 48	140.4	893.9			
1974	1.7	-38.9	-17.6	0.3	11.7	11.2	15.0	N 47	155.2	996.7			
1975	1.2	-33.2	-16.7	0.5	19.0	15.6	15.8	NW 51	148.8	971.4			
1976	5.5	-31.1	-11.6	0.3	30.3	23.0	18.3	N 48	127.2	859.6			
1977	3.8	-33.7	-11.7	Tr.	23.5	20.9	16.7	N 56	122.7	830.2			
1978	-1.0	-36.0	-17.7	Nil	8.7	7.5	16.4	NNE43	179.0	999.2			
1979	-7.2	-38.8	-22.0	Nil	20.9	20.1	18.3	NNE54	136.4	1119.9			
1980	-1.7	-35.2	-15.9	Nil	18.5	17.6	16.3	S, NNW48	120.8	981.5			
1981	7.5	-37.0	-10.1	Tr.	5.9	3.3	15.9	SSE56	138.9	787.3			

\*7.0 CM Snow - February 21-22, 1980.  
4.4 CM Snow - February 6-7, 1981.

\*7.0 MM pcpn February 21-22, 1980.  
2.7 MM pcpn February 6-7, 1981.

## CLIMATOLOGICAL SUMMARY FOR FEBRUARY 1981

## AT WINNIPEG, MANITOBA

February was very mild with a mean temperature of minus 10.1 as compared to the normal minus 15.7. The month was also very dry, ranking the second driest on record. The driest was in 1903 when there was only 2.5 mm of precipitation. The 21st marked the end of the winter "snow cover". This is the earliest date since records began in 1951. Snow-fall with 5.9 cm ranked as the 12th lightest since 1875. Sunshine with 138.9 hours was normal while the average wind was 3 km below normal.

## DAILY WEATHER SUMMARY FOR FEBRUARY 1981

## AT WINNIPEG, MANITOBA

All Times Central Standard  
Not Daylight

1. Slightly below normal temperatures. Sunny. Ice crystals to 6:33 a.m. Blowing snow to 4:17 a.m. Drifting snow. Visibility restricted in morning. Moderate N winds gusting to 54 Km/h in morning.
2. Slightly below normal temperatures. Cloudy becoming sunny late morning. Light snow or ice crystals 00:07 a.m. to 1:45 p.m. Visibility slightly restricted. Mostly light winds.
3. Slightly below normal temperatures. Sunny. Mostly light winds but NW gusts to 39 Km/h in afternoon. Drifting snow.
4. Above normal temperatures. Sunny becoming cloudy in afternoon. Mostly light winds but SSW gusts to 46 Km/h in afternoon. Light snow 5:12 p.m. to 7:10 p.m. Drifting snow.
5. Mild. Cloudy. Snow 00:56 a.m. continued. Mostly light winds but NW gusts to 31 Km/h in afternoon. Drifting snow. Visibility occasionally restricted.
6. Above normal temperatures. Cloudy. Snow to 3:15 a.m., 7:01 a.m. continued. Heavy fog 5:07 a.m. to 6:15 a.m. Visibility restricted. Light winds.
7. Above normal temperatures. Partly cloudy. Snow to 11:12 a.m., 2:38 p.m. to 3:10 p.m. Ice crystals 11:37 a.m. to 2:07 p.m. Moderate N winds gusting to 54 Km/h in late afternoon. Blowing snow 9:08 a.m. to 1:13 p.m. Visibility restricted till afternoon. Drifting snow.
8. Below normal temperatures. Partly cloudy. Ice crystals 2:10 p.m. continued. Snow 10:35 p.m. to 11:29 p.m. Mostly light winds but NNW gusts to 31 Km/h in morning.
9. Cold. Sunny. Snow 00:45 a.m. to 2:10 a.m. Ice crystals to 3:50 a.m., 6:30 a.m. to 7:07 a.m., 12:28 p.m. to 2:55 p.m., 10:24 p.m. continued. Mostly light winds but NW gusts to 50 Km/h late morning. Drifting snow. Smoke over city & light fog late evening.
10. Cold. Sunny. Light winds. Ice crystals to 7:24 a.m., 9:38 p.m. to 10:46 p.m. Fog. Ice fog and smoke over city in morning. Visibility restricted.
11. Cold. Sunny. Ice crystals 1:57 a.m. to 8:00 a.m. Heavy ice fog 8:00 a.m. to 8:32 a.m. Light ice fog till late morning. Light winds. Visibility restricted.
12. Cold. Sunny. Mostly light winds but S gusts to 31 Km/h in evening.
13. Above normal temperatures. Sunny. Ice crystals 00:25 a.m. to 2:50 a.m. Light winds.
14. Mild. Cloudy clearing mid afternoon. Moderate S winds gusting to 80 Km/h early afternoon. Drifting snow. Light snow 6:25 a.m. to 7:10 a.m.
15. Record breaking high maximum and overnight low. Mostly sunny. Light rain 7:03 a.m. to 7:11 a.m. Freezing rain 7:11 a.m. to 7:14 a.m. Mostly light winds but W gusts to 37 Km/h late evening.
16. Record breaking high temperatures. Cloudy clearing early afternoon. Moderate S winds gusting to 50 Km/h. Three fisherman rescued from bush near Sabourin Lake 175 Km NE Winnipeg after strong winds, rain-storm forced plane off course and they made emergency landing.
17. Another record breaking high maximum and overnight low. Cloudy. Rain or rainshower 7:05 a.m. to 8:42 a.m. Mostly light winds but SSE gusts to 56 Km/h in morning. Mild weather caused ice sculptures at Festival Du Voyageur to melt. Skating rinks soft. River is dangerous. Only 3.8 cm ice at Assiniboine Park foot bridge. Red River open near Kildonan Park. 24 water main breaks in 2 days. Winter roads between Hole River and Island Lake closed due to muskeg softening. Roads between Cross Lake and Gods Narrow open only to night travel. Numerous entries withdrawn from Dog Derby at The Pas due to mild temperatures exhausting dogs.
18. Mild. Cloudy. Light fog in afternoon. Visibility restricted. Mostly light winds but WNW gusts to 33 Km/h in morning.
19. Mild. Cloudy. Rain shower 4:25 a.m. to 4:35 a.m. Drizzle 4:48 p.m. to 8:55 p.m., 10:55 p.m. to 11:10 p.m. Freezing drizzle 8:55 p.m. to 10:55 p.m. Light fog 8:30 a.m. to 4:26 p.m. Heavy fog 4:26 p.m. continued. Visibility severely restricted. Light winds. Record breaking high overnight low.
20. Mild. Cloudy. Rain 2:59 p.m. to 5:33 p.m. Heavy fog to 00:06 a.m. Light fog till 12:30 p.m. Moderate SSE winds gusting to 46 Km/h in morning.
21. Mild. Partly cloudy. Mostly light winds but W gusts to 37 Km/h in early afternoon.
22. Mild. Partly cloudy. Light winds.
23. Mild. Sunny. Mostly light winds but NW gusts to 43 Km/h in afternoon. Record breaking high temperatures.
24. Mild. Cloudy. Snow grains 10:34 a.m. to 11:38 a.m. Snow 4:39 p.m. to 10:35 p.m. Moderate N winds gusting to 48 Km/h in morning.
25. Mild. Cloudy late morning and early afternoon otherwise sunny. Snow flurries 10:45 a.m. to 11:34 a.m. Light winds. Smoke over city in evening.
26. Mild. Mostly sunny. Mostly light winds but S gusts to 43 Km/h late morning.
27. Mild. Cloudy. Snow grains 2:44 p.m. to 3:10 p.m. Mostly light winds but N gusts to 52 Km/h in evening.
28. Mild. Cloudy. Snow 8:47 a.m. to 12:12 p.m. Mostly light winds but WSW gusts to 39 Km/h in late evening.

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

ALL TEMPERATURES IN DEGREES CELSIUS

HR	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	-17.9	-16.8	-18.1	-19.7	-20.6	-21.6	-22.4	-23.6	-25.6	-24.5	-23.5	-22.5	-21.5	-20.3	-19.8	-19.5	-20.5	-21.2	-21.1	-21.2	-24.0	-23.9	-23.6	-23.6
2	-23.4	-22.7	-23.7	-21.4	-19.7	-21.4	-19.7	-19.1	-15.4	-20.4	-19.5	-19.0	-18.1	-18.0	-17.9	-17.9	-18.5	-19.5	-20.2	-22.5	-21.6	-22.0	-21.6	-23.6
3	-22.3	-22.2	-21.2	-20.3	-19.1	-19.7	-20.6	-20.4	-20.5	-19.4	-19.4	-17.6	-17.4	-16.9	-16.8	-16.8	-17.4	-19.2	-21.3	-21.3	-22.0	-22.8	-21.2	-21.2
4	-20.7	-21.6	-20.7	-20.3	-20.7	-21.1	-21.0	-21.6	-22.4	-21.2	-19.5	-16.8	-15.9	-14.3	-12.4	-10.2	-8.8	-9.0	-8.5	-8.5	-7.7	-7.3	-7.0	-8.0
5	-8.3	-8.1	-8.3	-8.3	-8.0	-8.0	-8.1	-8.6	-8.9	-8.4	-8.1	-7.7	-7.4	-7.1	-7.3	-7.2	-7.5	-7.6	-7.8	-7.5	-7.8	-7.8	-7.3	-7.0
6	7.0	-7.4	-8.5	-11.5	-15.3	-18.0	-18.1	-16.0	-15.1	-12.8	-12.0	-10.2	-9.3	-9.7	-9.6	-9.1	-9.0	-9.0	-9.2	-9.1	-9.2	-9.4	-9.2	-9.0
7	-9.0	-10.0	-9.3	-9.0	-9.4	-9.5	-10.0	-11.5	-12.1	-12.6	-12.9	-13.2	-12.6	-11.5	-10.7	-10.5	-11.0	-12.5	-14.5	-16.8	-17.8	-19.2	-20.0	-20.8
8	-21.6	-24.3	-25.0	-25.7	-26.3	-27.0	-27.0	-27.7	-27.8	-26.8	-25.7	-23.8	-23.2	-22.0	-21.8	-21.1	-20.7	-20.8	-21.5	-20.7	-21.4	-21.7	-21.3	-21.4
9	-11.7	-21.3	-20.6	-20.5	-22.4	-24.5	-24.4	-25.1	-26.7	-25.9	-24.8	-24.3	-24.3	-24.0	-23.8	-23.7	-24.1	-24.7	-26.1	-28.6	-29.2	-28.7	-28.1	-29.7
10	-31.1	-31.6	-29.8	-31.0	-32.0	-32.2	-32.2	-32.2	-32.2	-32.2	-32.2	-29.3	-27.2	-25.7	-26.0	-26.0	-26.1	-26.7	-28.1	-28.7	-28.8	-30.1	-29.6	-30.0
11	-32.3	-32.4	-32.7	-32.9	-33.3	-33.3	-33.3	-33.3	-33.3	-32.6	-29.8	-29.2	-29.2	-26.5	-26.0	-24.5	-24.5	-24.7	-26.0	-27.5	-27.0	-27.4	-26.5	-27.1
12	-27.4	-27.1	-27.8	-29.8	-33.6	-38.8	-38.7	-38.5	-36.8	-35.1	-32.5	-31.3	-22.5	-20.4	-19.1	-20.0	-19.2	-19.6	-20.6	-21.1	-21.7	-20.0	-20.2	-20.3
13	-19.7	-19.0	-19.5	-19.0	-17.6	-16.6	-15.6	-15.7	-17.2	-15.8	-14.2	-12.5	-11.2	-12.2	-11.7	-11.8	-12.0	-13.4	-14.4	-16.0	-18.8	-15.9	-16.1	-16.5
14	-15.1	-16.9	-14.7	-13.3	-12.3	-11.3	-10.0	-8.0	-7.2	-6.2	-4.3	-3.0	-1.2	-2.3	1.5	1.0	1.1	1.9	2.2	-1.4	0.0	-2.4	-2.6	-2.5
15	-11.5	-11.6	-2.8	-1.4	-1.7	-1.2	-1.2	-1.7	-1.2	-1.1	1.5	2.6	4.0	3.9	4.0	4.7	5.5	5.0	2.7	1.8	1.8	1.1	1.0	1.4
16	1.6	1.9	-1.3	-4.3	-6.1	-5.3	-4.4	-3.6	-2.3	-1.6	1.7	2.7	2.7	3.6	5.2	5.1	6.0	6.3	4.5	4.5	3.7	3.6	3.6	3.2
17	2.4	1.2	0.0	-1.1	-1.2	-1.0	-1.1	-1.2	-1.0	-0.4	2.5	2.2	2.5	3.0	3.0	4.3	5.3	4.7	4.0	2.8	1.9	1.9	1.9	0.0
18	3.5	-1.5	-2.8	0.0	1.6	2.5	1.8	1.1	-1.7	-1.4	1.1	1.6	1.6	1.2	1.2	1.0	1.2	1.7	1.5	1.5	1.3	1.0	1.3	0.0
19	3.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.4	1.5	1.0	1.6	1.4	1.3	1.3	1.2	0.0	0.0	0.0	-2.4	-3.0	0.0
20	3.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.4	1.5	1.2	1.7	2.2	3.2	3.6	4.3	4.2	3.8	3.7	3.6	3.6	3.0
21	2.6	1.7	2.0	1.3	1.5	2.1	2.3	2.2	3.0	2.1	2.9	3.6	4.5	4.5	5.0	5.4	4.4	3.6	2.8	1.9	0.0	-1.2	-1.0	-1.6
22	-3.9	-2.0	-2.0	-1.0	-0.3	-1.6	-2.5	-2.7	-4.4	0.0	-2.2	1.0	1.1	2.0	2.5	2.5	3.0	2.1	1.6	-1.7	-1.7	-3.1	-2.8	-4.1
23	-4.6	-3.6	-4.2	-4.8	-4.2	-3.1	-2.7	-3.0	-3.0	-1.5	1.7	3.0	4.0	4.4	4.7	5.7	7.1	5.3	3.5	1.3	1.0	-1.3	-1.8	-3.8
24	-4.5	-1.7	-1.8	-2.6	-3.2	-2.7	-2.2	-2.0	-2.2	-2.0	-2.2	-2.6	-2.5	-2.3	-2.6	-2.8	-3.1	-3.5	-3.8	-5.8	-6.5	-4.5	-4.3	-5.6
25	-6.6	-7.6	-8.8	-9.5	-9.7	-9.8	-10.5	-10.5	-9.1	-8.0	-7.2	-6.8	-6.6	-6.3	-5.5	-5.4	-5.1	-5.1	-5.3	-6.0	-6.0	-5.1	-4.7	-4.1
26	-5.2	-7.2	-7.2	-7.3	-7.2	-6.8	-5.1	-3.8	-2.5	-1.0	1.1	2.1	2.1	3.0	3.7	4.1	3.6	3.3	2.8	1.3	1.0	1.0	1.4	-1.2
27	-5.6	-1.2	-2.1	-1.1	0.0	-2.1	-3.1	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4
28	-6.4	-7.1	-7.4	-8.0	-8.5	-9.1	-9.5	-9.4	-7.9	-6.6	-5.3	-3.9	-3.5	-3.0	-2.1	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2
MEAN	-10.5	-10.9	-11.0	-11.3	-11.6	-11.8	-12.0	-11.3	-11.3	-11.0	-10.9	-8.9	-8.1	-7.5	-7.1	-6.7	-6.6	-7.0	-7.8	-8.8	-9.1	-8.5	-9.6	-9.8

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF FEBRUARY 1981  
 LOCAL STANDARD TIME  
 ALL TEMPERATURES IN DEGREES CELSIUS

DATE	01.	02.	03.	04.	05.	06.	07.	08.	09.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	
01	-17.0	-18.2	-19.8	-20.7	-21.5	-22.4	-22.8	-23.9	-24.6	-25.6	-22.6	-21.6	-20.5	-20.0	-19.6	-19.5	-20.2	-20.7	-21.3	-21.9	-21.0	-21.0	-23.9	-23.6
02	-22.4	-23.7	-23.6	-21.4	-19.7	-19.4	-19.2	-19.4	-20.0	-19.5	-19.2	-18.2	-18.5	-18.4	-18.3	-18.7	-19.6	-20.3	-22.5	-21.7	-22.0	-21.6	-21.6	-22.8
03	-22.3	-22.2	-20.3	-19.3	-19.8	-20.7	-20.7	-20.5	-20.6	-19.6	-17.9	-17.8	-17.4	-17.2	-17.2	-17.1	-17.5	-19.4	-21.4	-21.6	-23.1	-22.9	-21.9	-21.3
04	-20.8	-21.6	-20.7	-20.4	-21.2	-21.1	-21.7	-22.5	-21.5	-19.9	-17.5	-16.5	-14.8	-12.8	-10.5	-9.0	-8.5	-8.0	-8.7	-8.5	-8.0	-7.7	-9.3	-9.3
05	-8.6	-8.5	-8.5	-8.4	-8.3	-8.2	-6.9	-9.1	-8.7	-8.5	-8.1	-8.0	-7.9	-8.0	-7.7	-8.0	-8.3	-8.3	-7.8	-7.8	-8.0	-7.5	-7.5	-7.3
06	-7.4	-7.6	-6.6	-11.6	-15.7	-18.0	-18.1	-16.0	-15.1	-13.8	-12.1	-10.2	-10.0	-10.1	-9.6	-9.4	-9.3	-9.5	-9.5	-9.5	-9.5	-9.4	-9.4	-9.1
07	-9.1	-10.0	-9.4	-9.0	-9.4	-9.6	-10.0	-11.5	-12.2	-12.8	-13.1	-13.4	-12.8	-11.8	-11.0	-10.7	-11.4	-12.8	-14.7	-17.0	-18.0	-19.5	-20.2	-20.9
08	-21.7	-24.1	-24.9	-25.6	-26.6	-27.0	-27.7	-27.7	-26.8	-25.7	-23.9	-23.3	-22.1	-22.0	-21.3	-20.8	-21.0	-21.6	-20.7	-21.4	-21.7	-21.4	-21.4	-21.4
09	-21.7	-21.3	-20.7	-20.6	-22.4	-24.6	-25.2	-26.7	-26.0	-25.1	-24.9	-24.5	-24.1	-24.0	-23.9	-24.2	-24.8	-26.1	-28.5	-29.1	-29.6	-27.9	-29.6	-29.6
10	-31.1	-31.6	-29.8	-31.0	-32.0	-32.2	-34.1	-34.1	-35.6	-35.8	-31.2	-29.2	-26.0	-26.0	-26.3	-26.1	-26.2	-26.8	-28.2	-28.7	-28.8	-30.1	-29.6	-30.0
11	-32.3	-32.4	-32.6	-32.8	-34.7	-35.7	-35.2	-36.0	-36.2	-32.5	-29.8	-29.2	-26.5	-26.0	-24.7	-25.0	-25.0	-26.0	-27.3	-27.3	-27.3	-27.3	-26.5	-27.0
12	-27.3	-27.0	-27.7	-28.8	-28.7	-28.6	-29.1	-28.4	-26.8	-25.1	-23.0	-21.9	-20.9	-19.6	-20.5	-19.6	-19.9	-20.3	-21.2	-21.3	-20.0	-20.3	-20.3	-20.3
13	-19.8	-19.1	-19.6	-19.1	-17.8	-16.8	-15.9	-17.4	-16.1	-14.6	-13.1	-12.2	-12.7	-12.2	-12.3	-12.5	-13.8	-14.7	-16.2	-18.9	-16.1	-16.3	-16.7	-16.7
14	-15.3	-17.0	-14.9	-12.7	-12.6	-11.6	-10.4	-8.6	-7.7	-6.8	-5.0	-2.0	-3.8	-2.0	-3.8	-2.0	0.0	0.0	-1.5	-1.1	-1.8	-2.8	-2.3	-2.3
15	-2.0	-2.0	-3.1	-2.0	-2.2	-1.2	-2.7	-3.2	-1.8	-1.0	-1.5	1.1	2.2	2.2	2.3	2.0	3.0	1.7	1.8	1.4	1.1	0.0	0.0	0.0
16	-4	-1	-2.0	-3.9	-4.7	-6.4	-5.5	-4.6	-2.8	-1.6	-1.4	1.2	1.8	2.7	2.8	3.6	4.0	3.0	2.8	2.4	2.2	1.6	1.4	1.4
17	1.5	1.5	-1.4	-1.1	-1.5	-1.5	-1.2	-1.6	-1.8	-1.4	1.5	1.3	1.9	2.1	2.9	3.7	3.5	3.0	2.0	1.5	1.3	1.5	1.5	1.5
18	0.0	-1.8	-1.1	-3	-2.0	-2.7	-2.0	-1.3	-1.0	-8	-3	2	1.4	6	8	1.0	1.2	1.0	1.0	1.0	1.2	1.2	1.5	1.5
19	3	5	5	5	5	5	5	5	5	5	5	5	1.1	1.0	1.9	1.6	1.1	0.0	0.0	0.0	1.2	1.5	0.0	0.0
20	5	8	1.0	1.6	1.6	0.0	-1.2	-1.3	-1.1	1.3	1.3	1.8	1.2	1.6	2.3	2.7	3.0	2.9	2.6	2.6	2.4	2.5	2.0	2.0
21	1.8	1.2	1.4	1.0	1.0	1.3	1.2	1.1	1.9	1.3	2.0	2.6	2.3	2.5	2.8	2.4	1.8	1.3	1.1	1.8	1.1	1.7	1.4	1.4
22	-1.3	-1.0	-1.1	-1.5	-2.1	-2.1	-1.0	-1.0	-1.5	-2.0	0.0	0.0	1.7	1.1	1.1	1.7	1.1	-1.6	-1.5	-2.2	-3.5	-3.2	-4.2	-4.2
23	-4.6	-3.8	-4.5	-5.0	-4.5	-3.4	-4.0	-3.5	-3.0	-2.7	0.0	1.0	1.1	2.3	3.4	4.9	2.8	1.7	-1.7	-1.2	-1.4	-2.2	-2.7	-2.7
24	-3.0	-3.2	-3.3	-3.7	-3.9	-4.1	-5.7	-5.2	-5.0	-3.6	-3.7	-3.7	-3.9	-4.1	-4.3	-4.8	-4.8	-5.0	-6.3	-5.0	-5.3	-5.3	-5.2	-5.2
25	-7.1	-8.0	-9.1	-9.2	-9.9	-10.3	-10.3	-9.3	-8.2	-8.4	-7.7	-7.2	-7.4	-6.5	-6.2	-5.9	-6.0	-6.1	-6.8	-7.1	-7.3	-8.2	-7.6	-7.6
26	-7.7	-7.7	-7.7	-7.8	-7.8	-7.7	-7.4	-6.5	-4.6	-2.5	-1.5	-1.5	0.0	1.5	1.7	1.8	1.5	1.2	1.0	1.0	1.0	1.6	2.0	2.0
27	-1.6	-2.3	-1.7	-1.6	-1.6	-1.5	-1.5	-1.3	-1.1	-1.3	-1.8	-1.8	-1.4	-1.4	-2.3	-2.8	-2.8	-2.7	-3.2	-4.0	-3.0	-3.7	-6.6	-6.6
28	-2.3	-1.8	-8.0	-8.0	-8.0	-9.4	-9.7	-10.0	-9.7	-8.4	-7.5	-5.2	-4.2	-3.7	-2.8	-2.7	-2.1	-2.2	-2.8	-3.4	-3.4	-3.7	-3.7	-3.0
MEAN	-10.9	-11.2	-11.3	-11.6	-11.0	-12.1	-12.3	-12.1	-12.1	-11.4	-10.6	-9.6	-8.4	-8.0	-7.7	-7.5	-7.3	-8.6	-9.4	-9.7	-10.0	-10.1	-10.3	-10.3

1961

INTERNATIONAL AIRPORT FOR THE MONTH OF FEBRUARY

ABSTRACT OF THE WIND AT WINNIPEG  
ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

HOURLY 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
1	N 33	N 41	N 44	N 37	N 31	N 31	N 31	N 37	N 31	N 24	N 28	N 24	N 26	N 30	N 33	N 30	N 20	N 19	N 20	N 20	N 20	N 11	N 17	N 15
2	NW 17	NW 17	NW 15	NW 13	NW 17	NW 20	NW 19	NW 20	NW 19	NW 17	NW 13	NW 7	NW 22	NW 26	NW 20	NW 19	NW 20	NW 20	NW 17	NW 9	NW 11	NW 13	NW 9	
3	NW 13	NW 17	NW 15	NW 17	NW 19	NW 17	NW 17	NW 19	NW 19	NW 19	NW 20	NW 22	NW 24	NW 24	NW 31	NW 24	NW 22	NW 20	NW 20	NW 20	NW 22	NW 11	NW 9	
4	W 13	W 13	W 17	W 13	W 19	W 11	W 13	W 9	W 11	W 11	W 17	W 22	W 24	W 24	W 26	W 30	W 31	W 28	W 31	W 24	W 19	W 11	W 13	
5	NW 15	NW 15	NW 11	NW 13	NW 17	NW 9	NW 13	NW 13	NW 13	NW 17	NW 20	NW 17	NW 24	NW 20	NW 26	NW 20	NW 19	NW 17	NW 13	NW 7	NW 7	NW 9		
6	NW 9	NW 7	NW 11	NW 7	NW 2	NW 6	NW 0	NW 2	NW 0	NW 0	NW 11	NW 11	NW 9	NW 13	NW 11	NW 15	NW 15	NW 13	NW 11	NW 9	NW 13	NW 11		
7	SSE 7	SSE 7	SSE 7	SE 7	ESE 6	E 2	ENE 2	ENE 7	ENE 15	NNE 24	N 30	N 37	N 35	N 31	N 35	N 33	N 33	N 31	N 43	N 37	N 37	N 22	N 26	
8	NW 20	NW 17	NW 19	NW 13	NW 11	NW 9	NW 9	NW 9	NW 9	NW 6	NW 6	NW 6	NW 0	NW 0	NW 4	NW 4	NW 6	NW 2	NW 0	NW 9	NW 7	NW 13	NW 11	
9	NW 9	NW 20	NW 22	NW 25	NW 20	NW 17	NW 20	NW 22	NW 22	NW 22	NW 28	NW 30	NW 28	NW 31	NW 28	NW 28	NW 13	NW 6	NW 0	NW 0	NW 0	NW 7	NW 0	
10	NE 2	NW 2	NW 0	NW 0	NW 0	NW 7	NW 7	NW 2	NW 4	NW 9	NW 4	NW 0	NW 0	NW 0	NW 9	NW 15	NW 19	NW 15	NW 11	NW 9	NW 9	NW 11	NW 9	
11	S 9	S 9	S 7	S 6	S 0	S 0	S 0	S 0	S 0	S 6	S 7	S 7	S 7	S 7	S 6	S 6	S 7	S 7	S 6	S 9	S 7	S 9	S 6	
12	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	
13	SSW 22	SSW 19	SSW 15	SSW 13	SSW 19	SSW 13	SSW 9	SSW 17	SSW 9	SSW 4	SSW 11	SSW 4	SSW 0	SSW 13	SSW 15	SSW 22	SSW 26	SSW 15	SSW 20	SSW 19	SSW 24	SSW 22	SSW 24	
14	SE 9	SE 9	SE 15	SE 20	SE 24	SE 28	SE 30	SE 33	SE 33	SE 43	SE 41	SE 44	SE 46	SE 56	SE 37	SE 33	SE 33	SE 31	SE 30	SE 28	SE 24	SE 19	SE 19	
15	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	S 9	

PEAK COSTS

TIME (CST)

N 54

01:47

NW 39

15:03

SSW 46

15:28

NW 31

12:16

N 54

17:50

NNW 31

00:16

NW 50

11:33

S 31

20:56

S 80

12:56

W 37

23:54



# WIND CHILL FOR FEBRUARY 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	1938	1898	1975	1975	2009	1993	2015	2091	2065	1980	2004	1911	1906	1915	1941	1887	1734	1728	1778	1801	1798	1652	1808	1752
2	1793	1770	1802	1755	1633	1675	1738	1731	1698	1684	1576	0	1730	1784	1691	1656	1711	1744	1691	0	1583	1651	1639	0
3	1660	1754	1677	1694	1695	1675	1704	1704	1738	1741	1741	1713	1736	1690	1811	1715	1686	1706	1734	1804	1845	1594	1727	0
4	1612	1639	1707	1600	1747	0	1565	1639	0	1571	1669	1686	1684	1629	1588	1552	1520	1490	1509	1429	1324	0	1201	1269
5	1278	1272	0	1240	1303	0	1306	0	1258	1243	1306	1352	1391	1332	1410	1336	1346	1321	1297	1218	0	0	0	0
6	0	0	1203	0	0	0	0	0	0	0	1252	1244	0	1279	1220	1300	1300	1267	1220	0	1273	1223	0	
7	0	0	0	0	0	0	1377	1553	1639	1720	1716	1658	1652	1623	1599	1618	1655	1823	1866	1904	1923	1794	1882	
8	1814	1821	1887	1762	1736	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1630	1577	
9	0	1804	1815	1871	1841	1827	1907	1967	2021	2089	1964	2077	2033	2073	2015	2011	1714	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1826	1920	1923	1848	1771	0	0	1829	1815	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	1742	0	0	1859	0	1788	0	1783	1733	0	0	1580	1548	1564	1640	1767	1840	1659	1798	1780	1825	1801	1836
13	1784	1692	1625	1561	1519	1614	1459	1548	0	1368	0	0	0	0	0	1387	1464	1393	0	1420	1501	0	0	0
14	0	0	1476	1538	1560	1571	1545	1507	1478	1505	1421	1391	1330	1324	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	1243	1246	1288	1305	1268	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1214	1265	1276	1283	1316	1283	1231	1224	1230	1256	1276	0	1235	1263	1270	1281	1236	1246	0	0	0	0	0
25	1259	0	0	0	0	0	0	0	0	1367	1269	1207	0	0	0	0	0	0	0	0	0	0	0	0
26	0	1207	0	0	1207	1232	1204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1236	1265	1242	1287	1291	1342	1379	1366	1369
28	1378	1352	1368	1368	1246	1399	1351	1325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### SUMMARY

GREATER THAN 1400 WATTS/SQ.M.	GREATER THAN 1600 WATTS/SQ.M.	GREATER THAN 2300 WATTS/SQ.M.
35	108	0
NUMBER OF HOURS=		
9	4	0
NUMBER OF DAYS=		





