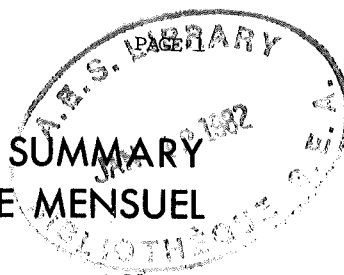




VOL ISS NOV 81
MONTHLY METEOROLOGICAL SUMMARY, WIN
NIPEG, MANITOBA

Y METEOROLOGICAL SUMMARY
RE MÉTÉOROLOGIQUE MENSUEL



MONTH/MOIS NOVEMBER / NOVEMBRE

1981

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

LAT: 49 ° 54' N		LONG: 97 ° 14' W		ELEVATION: 239.6 METRES (ASL) ALTITUDE: 239.6 MÈTRES (NMM)		STANDARD TIME USED: CENTRAL 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
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR) mm	SNOWFALL NEIGE (HAUTEUR) cm	TOTAL PRECIP. PRÉCIP. TOTALE mm		AVERAGE SPEED VITESSE MOYENNE km/h	PREVAILING DIRECTION DOMINANTE	MAXIMUM SPEED AND DIRECTION VITESSE MAXIMALE ET DIRECTION	
1	14.8	0.0	7.4	10.6	2.4	92	58						14.6	S	S20*	8.4
2	12.2	-2.0	5.1	12.9	0.1	83	41						10.9	S	S24	8.9
3	16.1	3.8	10.0	8.0	5.0	83	43						18.3	S	S31	8.6
4	18.2	4.8	11.5	6.5	6.5	92	55						27.5	S	S37	7.8
5	6.7	-1.5	2.6	15.4	0.0	88	40		0.2	0.2			18.0	WNW	NW37	7.6
6	16.2	-3.7	6.3	11.7	1.3	87	33						12.8	WSW	WSW19*	9.2
7	16.8	-3.1	6.9	11.1	1.9	92	38						20.9	S	NW54	9.1
8	1.0	-9.6	-4.3	22.3	0.0	78	34						26.4	NW	NNW41*	9.1
9	7.5	-8.2	-0.4	18.4	0.0	75	36						26.5	S	S48	1.0
10	3.5	-4.2	-0.4	18.4	0.0	87	68		TR	TR			14.0	NNW	NNW24	0.0
11	12.0	-4.7	3.7	14.3	0.0	92	46						20.7	S	S35	8.5
12	13.2	-0.4	6.4	11.6	1.4	88	49		TR	TR			28.4	S	S33*	8.8
13	12.5	2.9	7.7	10.3	2.7	88	52		TR	TR			18.9	S	S37	0.7
14	12.8	-2.8	5.0	13.0	0.0	94	61						7.2	NNE	S15	6.6
15	9.9	2.0	6.0	12.0	1.0	97	73		3.4	3.4			10.7	S	S15*	1.0
16	5.3	-0.9	2.2	15.8	0.0	91	75		TR	TR			17.0	W	WNW26	0.0
17	1.8	-2.0	-0.1	18.1	0.0	94	77						15.2	WNW	NW22	0.0
18	-1.8	-4.5	-3.2	21.2	0.0	89	72			TR	TR		24.5	NE	ENE30*	0.0
19	-3.2	-7.2	-5.2	23.2	0.0	83	65			TR	TR		28.1	NNW	N35*	0.0
20	-3.0	-10.7	-6.9	24.9	0.0	85	40			TR	TR	TR	7.4	calm	NNW20	7.8
21	-1.2	-9.8	-5.5	23.5	0.0	86	66						18.1	SSE	S26*	5.7
22	0.7	-4.5	-1.9	19.9	0.0	96	74			TR	TR	TR	16.4	S	S26	2.0
23	0.7	-4.4	-1.9	19.9	0.0	97	74		TR	0.2	TR	TR	9.7	S	S19*	0.0
24	-0.1	-2.2	-1.2	19.2	0.0	96	73			0.2	TR	TR	4.4	W	W15	0.0
25	-0.5	-2.3	-1.4	19.4	0.0	96	79			TR	TR	TR	11.8	NNE	NNE19*	0.0
26	-1.3	-4.8	-3.1	21.1	0.0	92	75			1.9	1.9	1	24.8	N	N35	0.0
27	0.3	-7.3	-3.5	21.5	0.0	91	78			TR	TR	1	14.3	WNW	NW24	0.1
28	-3.5	-5.9	-4.7	22.7	0.0	88	75			TR	TR	1	14.8	WSW	SW20*	0.0
29	-1.8	-4.2	-3.0	21.0	0.0	92	78					1	27.2	S	S35	1.5
30	-1.6	-7.5	-4.6	22.6	0.0	96	84			0.2	0.2	1	22.5	S	S35	0.0
31																
MEAN MOYENNE	5.5	-3.5	1.0	510.5	22.3	90	60	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	17.7	PREVAILING DOMINANTE	MAXIMUM NW54	TOTAL 112.4
NORMAL NORMALE	-0.5	-8.4	-4.4	674.1	2.5	88	62		7.1	21.3	27.2	3	20.3	South	57	81.2

DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS								DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÔTE DE NEIGE: cm				
BELOW 18°C AU-DESSOUS DE 18°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	0.2 OR MORE - 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	510.5	601.1	674.1	TOTAL FOR MONTH TOTAL DU MOIS	22.3	2.2	2.5	5	2	1	0	0	4	1	0	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET	1102.8	1301.5	1263.0	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL	1844.1	1916.3	1787.8										

UDC 551.506.1 () *Indicates more than one occurrence of same speed but not necessarily the same direction.
 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)

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		NOVEMBER / NOVEMBRE		19 81									
Temperature/Température Precipitation/Précipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station		°Celsius Millimètres (mm) Millimètres (mm) Centimètres (cm) Kilomètres/par heure (km/h) Kilopascals		THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE		RECORD FOR THE MONTH RECORD POUR LE MOIS			YEARS OF RECORD ANNÉES D'OBSERVATIONS		
VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	HIGHEST MAXIMUM ABSOLU	LOWEST MINIMUM ABSOLU					
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE	18.2	4	16.0	5	10.8	23.9	5	1975	2.2	5	1972	110			
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE	-10.7	20	-21.5	30	-23.3	-7.8	12	1899	-36.7	28	1875	110			
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	1.0		-2.0		-4.4	1.3		1923 1899	-13.9		1896	110			
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	3.6		4.3		7.1	62.2		1918	Nil (Several)			110			
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	2.5		20.7		21.3	80.3		1955	Tr		1928	110			
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	5.9		25.0		27.2	90.2		1955	0.8		1976	110			
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	4		6		10	20		1955	1		1901	98			
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	3.4	15	2.0	3		44.5	17	1918				110			
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	1.9	26	12.8*	8		31.0	10	1919				110			
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	3.4	15	14.1*	8		44.5	17	1918				110			
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:															
5 MINUTES	0.2	15	1.3	8		1.3	14	1971				13			
10 MINUTES	0.5	15	1.3	8		1.8	14	1971				13			
15 MINUTES	0.8	15	1.3	8		2.0	14	1971				13			
30 MINUTES	1.0	15	1.3	3.8		2.8	14	1971				13			
60 MINUTES	1.5	15	1.8	3		3.8	14	1971				13			
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	3.4	15	2.0	3		44.5	17	1918				110			
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	17.7		17.1		20.3	25.4		1953	13.7		1972	61			
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	NW54	7	NW46	3	57	NW80	5	1940 1952				43			
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	NW80	7	NNW61	3	81	NNW124	21	1960				36			
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	112.4		125.0		81.2	139.7		1976	25.1		1944	82			
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.63		98.62		98.63	99.19		1943	98.20		1949	43			
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	100.24	8,9	100.10	16	1005.2	101.52	20	1978				43			
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	97.31	7	96.34	8	96.38				94.56	20	1962	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 DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE				
1972	2.2	-21.7	-6.7	1.0	17.0	10.4	13.7	NNW42	51.6	737.2					
1973	3.3	-21.7	-7.5	6.9	37.1	40.1	16.6	W 42	77.6	760.6					
1974	11.7	-18.3	-3.3	0.8	10.4	5.6	18.5	NW 45	87.8	635.6	2.2				
1975	23.9	-25.4	-2.0	2.3	15.5	13.0	16.4	S 40 NNE40	122.9	598.4	28.9				
1976	13.3	-26.7	-5.9	Tr.	1.7	0.8	20.3	WNW56	139.7	714.7	3.4				
1977	17.8	-25.3	-4.8	0.6	28.4	28.4	19.9	N 70	102.1	682.6	14.6				
1978	17.3	-30.7	-8.4	8.2	36.4	42.6	16.1	W 59	99.6	791.2	11.0				
1979	7.5	-18.1	-5.0	0.6	16.2	14.6	15.2	NW 57	100.7	688.6					
1980	16.0	-21.5	-2.0	4.3	20.7	25.0	17.1	NW 46	125.0	601.1	2.2				
1981	18.2	-10.7	1.0	3.6	2.5	5.9	17.7	NW 54	112.4	510.5	22.3				

1980 24-hr showfall * 12.8cm snow also 8-9. 1980 pcpn 14.1 mm also 8-9.

CLIMATOLOGICAL SUMMARY FOR NOVEMBER 1981AT WINNIPEG, MANITOBA

November was the third warmest on record with a mean of 1.0. The two warmer months occurred in 1899 and 1923 with means of 1.3. The month was very dry as well. Only 2.5 cm of snow fell and there was 3.6mm of rainfall. The month was sunnier than normal with 112.4 hours. A mean wind of 17.7 was also below normal for the month.

DAILY WEATHER SUMMARY FOR NOVEMBER 1981AT WINNIPEG, MANITOBA

All Times Central Standard
Not Daylight

1. Mild. Mostly sunny. Mostly light winds. Smoke over the city in evening.
2. Mild. Sunny. Light winds but S gust to 35 km/h in evening.
3. Mild. Sunny. Light winds but S gust to 43 km/h in evening.
4. Mild. Mostly sunny. Moderate winds with NW gust to 72 km/h in evening. Light fog in morning. Visibility restricted.
5. Above normal temperature. Cloudy clearing mid-morning. Rain 01.53 AM to 03.18 AM 05.04 AM to 05.32 AM. Drizzle 03.18 AM to 03.41 AM. Mostly light winds but WNW gust to 52 km/h in afternoon.
6. Mild. Sunny. Mostly light winds but WSW gust to 31 km/h in evening.
7. Mild. Sunny. Moderate winds with NW gust to 80 km/h in evening.
8. Below normal temperature. Mostly sunny. Moderate winds with WNW gust to 57 km/h in afternoon.
9. Above normal temperature. Mostly cloudy. Moderate winds with S gust to 74 km/h in afternoon.
10. Above normal temperature. Cloudy. Snow 10.50 AM to 11.13 AM. Mostly light winds but NNW gust to 37 km/h in morning.
11. Mild. Sunny. Moderate S winds with gust to 50 km/h in late afternoon.
12. Record breaking high temperature. Mostly sunny. Showers 09.08 PM to 10.20 PM. Moderate S winds with gust to 54 km/h in afternoon. Golf courses re-opened.
13. Another record breaking high temperature. Mostly cloudy. Rain 11.43 AM to 12.31 PM. Mostly light winds but S gust to 50 km/h in morning.
14. Mild. Mostly sunny. Light winds. Haze 10.45 PM continued. Visibility restricted.
15. Mild. Mostly cloudy. Rain or light showers 04.50 AM to 12.08 PM. Haze to 02.15 AM. Light fog morning and afternoon. Visibility restricted. Light winds.
16. Mild. Cloudy. Rain 3.26 PM to 4.25 PM. Mostly light winds but NW gust to 37 km/h in late evening.
17. Mild. Cloudy. Snow 01.43 AM to 02.25 AM. 10.26 AM to 1.23 PM. 9.23 PM to 10.57 PM. Light winds.
18. Above normal temperature. Cloudy. Snow pellets 3.52 PM to 5.44 PM Snow 5.38 PM to 8.40 PM. Moderate winds with NNW gusts to 41 km/h in late evening. Roads reported very icy near Boissevain.
19. Slightly above normal temperature. Cloudy. Snow 02.50 AM to 09.18 AM. Flurries 10.52 AM to 1.32 PM. Snow 1.32 PM continued. Moderate winds with N gust to 46 km/h in morning.
20. Near normal temperature. Mostly sunny. Snow to 06.43 AM. Mostly light winds but N gust to 31 km/h in morning.
21. Above normal temperature. Partly cloudy. Mostly light winds but S gust to 35 km/h in afternoon.
22. Mild. Mostly cloudy. Snow 01.37 AM to 06.06 AM. 8.53 PM to 10.15 PM Mostly light winds but S gust to 37 km/h in afternoon. Light fog late morning and evening. Visibility restricted.
23. Mild. Cloudy. Snow 04.04 to 08.26 AM. Freezing drizzle 05.00 AM to 08.07 AM. 11.18 AM to 11.31 AM. Drizzle 11.31 AM to 12.27 PM. Heavy fog 00.05 AM to 00.10 AM. Light fog until early afternoon. Visibility restricted. Light winds.
24. Still mild. Cloudy. Light winds. Snow 7.48 PM continued.
25. Still mild. Cloudy. Light winds. Snow to 10.04 AM.
26. Still mild. Cloudy. Snow 00.25 AM to 3.25 PM. Visibility restricted. Moderate winds with N gust to 56 km/h in afternoon.
27. Still mild. Cloudy. Snow 00.38 AM to 05.35 AM. Snowflurries 5.49 PM to 6.08 PM. Light winds.
28. Still mild. Cloudy. Snow 7.10 AM to 12.42 PM. Mostly light winds but SW gust to 35 km/h in evening. River ice very thin - 2 children fell in Red River near Norquay Park. One drowned.
29. Still mild. Cloudy clearing late afternoon. Moderate winds with S gust to 56 km/h in evening. Red River frozen over at Lockport. Assiniboine river still open.
30. Still mild. Cloudy. Snow 06.17 AM to 07.58 AM. Snowgrains 07.58 AM to 09.35 AM. Snow 09.50 AM to 12.37 PM. Moderate winds with S gust to 57 km/h in morning.

HOURLY METEOROLOGICAL TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF NOVEMBER 1981
 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.	2.7	2.0	1.7	1.0	.9	1.1	.9	1.1	2.2	3.6	6.0	7.4	8.7	10.3	10.2	9.1	8.0	6.5	5.5	5.5	3.2	2.5	1.1	-1.1
2.	0.0	-4.4	-7.7	-1.8	-2.3	-2.0	-2.8	-3.0	-1.4	.2	3.0	3.7	4.6	5.3	6.2	6.6	6.1	5.2	4.5	4.3	3.3	2.5	3.5	3.5
3.	4.5	4.4	4.3	4.5	4.5	3.5	3.3	3.2	3.0	3.7	5.0	6.7	7.8	9.4	9.4	10.4	9.8	8.7	7.6	6.8	6.1	6.7	7.2	7.4
4.	8.2	7.9	7.8	7.3	6.5	7.3	7.3	7.9	8.3	8.7	9.3	11.2	12.3	12.3	12.5	12.6	12.7	10.8	9.0	6.2	3.5	4.0	3.6	3.2
5.	3.4	3.1	3.5	3.3	3.5	3.2	2.7	2.0	1.0	.5	1.5	1.8	1.8	1.8	1.7	1.7	1.6	.5	-7.7	-1.0	-2.0	-2.1	-2.4	-2.1
6.	-2.0	-2.0	-2.0	-2.3	-3.0	-3.5	-3.3	-2.2	-.9	0.0	2.4	4.1	5.4	7.6	8.3	9.0	8.2	6.7	5.3	4.8	4.9	4.0	3.6	2.9
7.	1.0	1.0	1.0	-1.2	-2.5	-2.8	-3.4	-2.6	-1.7	-2.2	2.2	4.8	6.1	8.6	9.4	9.4	8.8	6.0	4.7	4.8	2.5	.9	-1.0	-2.1
8.	-2.9	-3.2	-3.4	-3.7	-3.9	-3.6	-3.4	-3.8	-5.3	-4.8	-4.0	-3.7	-3.2	-3.3	-3.7	-4.3	-4.5	-5.4	-6.1	-7.5	-8.3	-8.9	-8.7	-9.3
9.	-9.1	-9.1	-8.2	-7.8	-7.7	-7.3	-6.9	-5.9	-5.3	-4.0	-2.9	-1.4	-1.1	.1	.9	1.9	2.0	1.7	1.6	2.3	2.6	2.7	3.5	2.2
10.	1.5	-.4	.8	-.3	-.7	-.8	-.3	0.0	.1	-.2	-.5	-.4	-.4	-.5	-.6	-.8	-.8	-1.3	-3.4	-3.9	-4.0	-3.8	-3.3	-2.7
11.	-2.4	-2.9	-3.2	-3.4	-3.5	-3.7	-3.6	-5.0	-4.0	-2.6	-.6	1.6	3.8	4.5	5.8	6.7	6.4	5.4	4.8	4.3	3.9	4.0	3.3	3.0
12.	2.3	1.8	1.4	1.0	.7	.4	0.0	-.4	-.7	.3	1.8	3.9	5.1	6.6	7.5	7.8	7.5	6.7	6.6	6.2	5.9	6.5	6.1	5.5
13.	5.2	5.1	5.0	4.4	4.9	4.5	4.0	3.6	3.1	3.9	4.8	5.7	6.1	6.1	7.4	7.2	7.3	7.0	6.7	4.4	3.5	3.0	2.8	3.3
14.	2.1	1.0	1.0	1.6	2.3	.6	0.0	-.4	-1.0	-.7	2.4	4.9	7.2	9.0	8.9	8.7	7.7	6.4	5.9	5.6	6.1	4.0	4.8	5.2
15.	4.6	4.5	5.0	5.3	6.0	5.9	5.7	5.6	5.7	6.2	6.7	7.2	7.5	8.0	8.7	8.5	8.0	7.5	7.0	5.9	4.0	2.4	2.0	1.6
16.	.9	.5	.5	-.7	-.9	-.3	.9	1.4	1.3	1.4	2.2	3.0	3.1	3.6	3.4	3.2	2.9	2.0	1.2	.8	.4	-.1	-.1	-.4
17.	-.8	-1.1	-.5	-.4	-.6	-1.3	-1.5	-1.0	-1.2	-.9	-.4	-.3	-.2	-.1	0.0	0.0	0.0	0.0	-.5	-1.0	-1.3	-1.5	-1.6	-2.1
18.	-2.5	-3.0	-3.2	-3.7	-4.2	-4.7	-4.7	-4.5	-4.6	-4.5	-4.1	-3.9	-4.2	-4.3	-4.2	-4.0	-3.9	-4.0	-4.1	-4.1	-4.0	-4.3	-4.4	-4.6
19.	-4.6	-4.8	-5.0	-5.3	-5.5	-5.5	-5.8	-5.8	-5.8	-5.9	-5.7	-5.6	-5.4	-4.9	-6.1	-6.3	-6.4	-6.6	-7.0	-7.3	-7.8	-7.9	-7.7	-7.8
20.	-7.8	-7.7	-7.8	-7.9	-7.9	-8.2	-9.3	-10.0	-10.7	-8.6	-7.8	-7.3	-7.0	-6.7	-6.5	-6.8	-7.0	-7.3	-8.2	-8.7	-9.4	-10.1	-9.3	-9.0
21.	-10.0	-9.1	-9.2	-9.8	-8.6	-8.6	-9.1	-8.6	-8.4	-8.2	-6.7	-5.6	-4.2	-3.6	-3.2	-3.3	-4.0	-4.8	-5.7	-5.2	-4.0	-4.0	-4.2	-4.2
22.	-4.2	-4.2	-4.2	-4.1	-4.1	-4.0	-4.0	-3.9	-3.6	-3.2	-2.7	-2.5	-2.3	-2.2	-1.7	-1.3	-2.5	-3.6	-4.3	-4.1	-4.2	-4.4	-4.3	-4.0
23.	-4.1	-4.3	-4.0	-3.7	-3.6	-3.3	-3.3	-3.1	-3.0	-2.6	-1.8	-1.2	-1.5	-.2	-1.0	-1.0	-1.0	-1.8	-1.4	-1.2	-1.3	-1.5	-1.5	-1.6
24.	-1.9	-2.1	-2.2	-2.3	-2.4	-2.6	-2.6	-2.6	-2.1	-2.5	-2.0	-2.0	-2.0	-1.8	-2.0	-1.8	-1.8	-1.7	-1.6	-1.6	-1.9	-2.0	-2.1	-2.1
25.	-2.2	-2.1	-2.0	-1.9	-1.9	-2.2	-2.2	-2.2	-2.5	-2.1	-2.0	-1.7	-1.6	-1.7	-2.0	-2.0	-2.1	-2.5	-2.5	-2.1	-2.1	-2.0	-1.9	-2.0
26.	-7.1	-2.4	-2.7	-2.6	-2.8	-2.9	-2.9	-2.8	-2.8	-2.8	-2.4	-2.6	-2.4	-2.6	-2.5	-2.6	-2.7	-3.5	-4.3	-5.1	-5.2	-5.4	-3.7	-3.4
27.	-3.4	-3.1	-3.2	-3.2	-2.7	-2.7	-2.7	-2.7	-3.0	-2.8	-2.2	-1.8	-1.3	-1.2	-1.2	-1.2	-1.3	-2.1	-2.6	-3.0	-3.3	-4.5	-7.1	-7.3
28.	-6.2	-4.9	-4.7	-4.7	-4.6	-4.5	-4.4	-4.5	-4.7	-4.7	-5.0	-5.7	-5.7	-5.3	-4.8	-5.0	-5.0	-5.4	-5.2	-4.9	-4.5	-5.0	-4.9	-4.7
29.	-4.5	-4.4	-4.1	-4.1	-4.3	-4.0	-3.7	-3.5	-3.5	-3.5	-3.3	-3.0	-2.3	-3.2	-3.2	-3.2	-3.7	-4.2	-4.4	-4.3	-4.0	-4.0	-4.2	-4.2
30.	-4.2	-4.3	-4.5	-4.6	-5.0	-4.9	-4.0	-4.1	-3.2	-2.8	-2.7	-2.3	-2.3	-2.3	-2.6	-3.4	-4.2	-5.1	-5.3	-6.1	-5.8	-7.3	-7.1	-6.8

MEAN	-1.3	-1.4	-1.3	-1.6	-1.7	-1.8	-1.9	-1.8	-1.8	-1.2	-.3	.4	1.0	1.6	1.8	1.9	1.6	.8	-.2	-.7	-1.1	-1.2	-1.3
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INTERNATIONAL AIRPORT FOR THE MONTH OF NOVEMBER

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	S	S	S	SSW	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	N	N	N	N	N	NNE	N		
2	NNW	NNW	NNW	N	C	N	NNE	NE	NE	NE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	SSE	S	S	35	19.04
3	S	S	SSW	SSW	SSW	S	SSW	S	S	S	SSW	S	S	S	S	S	SSE	S	SSE	S	S	S	S	S	43	21.00
4	S	S	S	S	S	S	S	S	S	S	SSW	SSW	S	S	SSW	SSW	SSW	W	W	W	NNW	NNW	NNW	NNW	72	19.26
5	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	C	SSE	S	SSE	52	12.33
6	SSE	S	S	SSW	S	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	31	18.21
7	WSW	WSW	S	S	S	S	SSE	S	S	S	S	S	S	S	SSW	SSW	SSW	W	WNW	WNW	WNW	WNW	WNW	WNW	80	19.20
8	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	57	14.51
9	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	74	13.28
10	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	37	06.48
11	S	S	S	SSW	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	50	16.18
12	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	54	15.51
13	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	50	01.22
14	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	50	
15	SSE	SE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	50	
16	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	37	22.28

17	WNW 19	WNW 17	WNW 20	WNW 17	WNW 15	WNW 13	WNW 15	WNW 17	WNW 19	WNW 20	N 11	WNW 11	WNW 11	NNE 13	N 13	NNE 13	NE 17	NE 11	NNE 13	N 15	NE 20	23.58
18	NE 19	NE 24	NE 19	ENE 26	ENE 30	ENE 26	ENE 26	ENE 26	ENE 28	NE 24	NE 24	NE 24	NE 28	NNE 30	NNE 24	NNE 20	NNE 22	NNE 19	N 26	N 28	N 26	10.26
19	N 31	NNW 30	NNW 30	NNW 33	NNW 31	N 28	NNW 35	N 35	N 35	NNW 31	NNW 30	NNW 28	N 24	N 26	N 20	N 24	N 24	NNW 24	NNW 24	NNW 28	NNW 24	00.20
20	NNW 20	NNW 19	NNW 20	NNW 17	N 9	N 4	NNE 4	C 0	C 0	C 0	E 6	C 0	C 0	C 0	C 0	S 6	S 4	SSE 7	SE 11	SSE 6	S 9	12.08
21	SE 13	S 17	SSE 17	SSE 19	SSE 19	SSE 22	SSE 19	SE 19	S 24	S 26	SSE 22	SSE 26	SSE 24	SSE 19	SSE 15	SSE 11	SSE 6	SSE 6	SSE 15	SSE 22	SSE 19	15.55
22	S 15	S 11	SSE 7	SE 13	SSE 11	SSE 15	SSE 17	SSE 17	SSE 17	SSE 22	SSE 20	SSE 24	SSE 24	SSE 26	S 13	S 17	S 15	S 15	S 19	S 19	S 19	14.18
23	S 19	S 17	S 15	S 13	S 9	S 11	S 9	S 7	SSW 4	SSW 6	W 11	W 11	W 11	W 11	W 6	W 0	W 9	W 9	W 7	W 9	W 7	10.20
24	WSW 6	W 15	W 9	W 6	W 7	W 9	W 7	W 6	C 0	C 2	C 4	C 4	C 6	C 4	C 0	C 4	C 0	C 0	C 0	SSW 2	C 0	12.08
25	C 0	C 0	NE 6	ENE 4	ENE 7	ENE 9	ENE 7	ENE 7	ENE 9	ENE 9	ENE 15	ENE 15	ENE 19	ENE 19	ENE 19	ENE 19	ENE 19	ENE 19	ENE 17	ENE 13	ENE 17	15.55
26	NNE 20	NNE 20	NNE 22	NNE 19	N 20	N 24	N 22	N 26	N 28	N 26	N 31	N 30	N 35	N 33	N 30	N 28	NNW 20	NNW 22	NNW 24	NNW 26	NNW 24	14.18
27	NW 24	NW 20	NW 15	WNW 13	WNW 15	WNW 17	WNW 11	WNW 11	WNW 13	WNW 17	WNW 17	WNW 13	WNW 13	W 7	W 13	W 15	W 17	W 13	W 9	WSW 13	WSW 13	20.14
28	W 17	WSW 13	WSW 13	WSW 9	W 9	W 17	W 13	W 11	WSW 9	WSW 13	WSW 20	WSW 19	WSW 15	WSW 15	WSW 13	WSW 17	WSW 13	WSW 15	WSW 19	WSW 19	WSW 17	20.20
29	SW 24	SSW 17	SSW 24	S 24	S 26	S 22	SSW 22	SSW 28	SSW 30	SSW 28	S 31	S 31	S 31	S 31	S 28	S 33	S 30	S 35	S 28	S 31	S 30	06.05
30	S 26	S 31	S 28	S 30	S 35	S 31	S 33	S 26	S 33	S 28	S 28	S 26	S 30	SSW 26	SSW 15	SSW 11	SSW 9	SSW 7	SSW 4	SSW 4	SSW 11	06.05

MEAN 17.617.517.316.317.517.017.517.116.317.619.019.320.321.421.220.317.415.415.216.116.017.018.017.3

WIND CHILL FOR NOVEMBER 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1268	1207	1236	1202	1249	1263	1272	1287	1329	1307	1300	1246	0	0	0	1273	1263	0	1213	0	0	0	0	0
9	0	1225	1285	1236	1320	1326	1276	1298	1305	1270	1282	0	0	0	0	0	0	0	0	0	0	0	0	0
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	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	1223	0	0	1246	1305	1337	1287	1284	1273	1277	1229	1240	1243	1277	1270	1283	1233	0	1216	0	1277	1302	1284
19	1338	1330	1360	1348	1355	1386	1382	1366	1344	1411	1392	1364	1337	1309	1298	1326	1266	1322	1340	1353	1367	1412	1371	1381
20	1336	1302	1329	1308	1278	1219	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1279	1325	1329	1318	1313	1344	1360	1398	1334	1324	1343	1315	1212	0	1210	0	0	0	0	0	0	0	1219	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1214	1204
23	1207	1210	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	1223	1202	1242	1243	1231	1273	1261	1300	1283	1236	1263	1216	1263	1291	1319	1252	1219
27	1226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	1233	0	0	0	0	0	0	0	0	0	0	1263	1236	0	0	0	0	0	0	0	0	0	0	1207
29	1264	1267	0	1277	1260	1264	1270	1219	0	1209	1259	1253	1249	1280	1280	1280	1309	1302	1360	1330	1366	1298	1345	1330
30	1294	1345	1327	1330	1355	1358	1374	1345	1327	1249	1291	1290	1242	1234	1261	1256	0	0	0	0	0	0	0	0

SUMMARY

GREATER THAN 1400 WATTS/SQ.M.	GREATER THAN 1900 WATTS/SQ.M.	GREATER THAN 2300 WATTS/SQ.M.
2	6	0
NUMBER OF HOURS=		
0		
NUMBER OF DAYS=		
0		
