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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS NOVEMBER/NOVEMBRE

19 82

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:													
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		km/h		km/h						
1	12.3	-2.7	4.8	13.2	0.0	88	38						8.8	S	SSW17	8.7					
2	3.5	-4.5	-0.5	18.5	0.0	93	49		Tr.	0.2	0.2		21.4	NW	NNW30*	0.9					
3	-0.5	-6.0	-3.3	21.3	0.0	84	55		Tr.	Tr.	Tr.		24.8	NW	NNW37	2.3					
4	-2.1	-5.4	-3.8	21.8	0.0	91	65		Tr.	1.2	0.5		24.8	N	N39	0.0					
5	-2.6	-6.1	-4.4	22.4	0.0	86	68			0.6	0.2	1	5.8	Cal	S15	0.0					
6	2.0	-6.1	-2.1	20.1	0.0	82	63					Tr.	16.3	SSE	SSE26	5.6					
7	1.7	-5.1	-1.7	19.7	0.0	95	75			Tr.	Tr.	0	17.8	W	NW33	0.3					
8	2.9	-4.7	-0.9	18.9	0.0	91	57					0	7.0	W	NW15	1.4					
9	2.2	-7.2	-2.5	20.5	0.0	89	48					0	11.2	SE	SE24	7.9					
10	2.0	-6.5	-2.3	20.3	0.0	98	57					0	7.2	SSW	SSW15	0.0					
11	1.3	-9.7	-4.2	22.2	0.0	92	65			Tr.	Tr.	0	25.9	SSW	NNW48	1.3					
12	-9.5	-15.5	-12.5	30.5	0.0	81	55			Tr.	Tr.	0	25.0	NW	NW43*	6.1					
13	-5.3	-15.1	-10.2	28.2	0.0	86	48					0	12.1	S	S19	7.6					
14	-5.3	-12.4	-8.9	26.9	0.0	85	52			0.2	Tr.	Tr.	18.9	S	S30*	2.9					
15	5.2	-9.5	-2.2	20.2	0.0	86	44					0	15.8	S	S24	5.8					
16	5.3	-7.7	-1.2	19.2	0.0	86	46					0	9.3	WSW	SSW15*	6.9					
17	5.3	-4.6	0.4	17.6	0.0	90	46					0	14.4	ESE	ESE28	3.1					
18	6.2	-3.5	1.4	16.6	0.0	93	49					0	22.6	SSE	SSE31*	6.1					
19	6.6	-2.3	2.2	15.8	0.0	100	92		2.1		2.1	0	17.9	ESE	ESE26	0.0					
20	6.6	-10.4	-1.9	19.9	0.0	97	68		1.7	1.0	2.7	0	28.9	WNW	WNW46	0.0					
21	-10.2	-15.2	-12.7	30.7	0.0	84	67			Tr.	Tr.	2	19.7	W	W30*	7.2					
22	-12.8	-18.1	-15.5	33.5	0.0	75	55			Tr.	Tr.	2	9.2	W	W15*	6.9					
23	-13.9	-20.6	-17.3	35.3	0.0	78	56			Tr.	Tr.	2	13.3	NW	NNW28	6.2					
24	-7.1	-19.1	-13.1	31.1	0.0	80	63					2	23.0	S	WNW41	7.4					
25	-12.0	-21.0	-16.5	34.5	0.0	77	60					2	7.1	W,NW	NW13	6.5					
26	-12.8	-23.8	-18.3	36.3	0.0	78	53					2	7.1	SSE	SSE15	7.8					
27	-4.6	-16.7	-10.7	28.7	0.0	87	63					2	26.7	SSE	S43	1.5					
28	-1.4	-11.9	-6.7	24.7	0.0	93	66					1	5.8	SSE	S15*	5.1					
29	-1.4	-11.7	-6.6	24.6	0.0	94	79					1	6.1	Cal	SSE17	0.4					
30	1.3	-6.5	-2.6	20.6	0.0	98	90		Tr.	Tr.	Tr.	1	17.0	SSE	SSE24*	0.0					
31																					
MEAN MOYENNE	-1.2	-10.3	-5.8	713.8	0.0	88	60	TOTAL 00	TOTAL 3.8	TOTAL 3.2	TOTAL 5.7	1	15.7	PREVAILING DOMINANTE S	MAXIMUM NNW48	TOTAL 115.9					
NORMAL NORMALE	-0.3	-8.8	-4.5	676.0	3.8	88	62	00	5.5	21.9	25.2	3	19.4	South	57	90.7					
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS											DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:					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	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			713.8	510.5	676.0	TOTAL FOR MONTH TOTAL DU MOIS			0.0	22.3	3.8	5	2	2	0	0	5	2	0	0	0
ACCUMULATED SINCE JULY 1 DEPUIS LE 1 ^{er} JUILLET			1355.1	1102.8	1288.1	ACCUMULATED SINCE APRIL 1 DEPUIS LE 1 ^{er} AVRIL			1706.0	1844.1	1783.3	5	2	2	0	0	5	2	0	0	0

UDC 561.506.1 (

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

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CLIMATOLOGICAL SUMMARY FOR NOVEMBER 1982AT WINNIPEG, MANITOBA

As last year this November was very dry. Only 5.7 mm of precipitation was recorded compared to the normal 25.2 mm. There was only 3.2 cm of snowfall much below the normal 21.9 cm. The mean temperature of -5.8°C was a little below normal. Sunshine with 115.9 hours was above normal while the mean wind of 15.7 Km/h was below the normal of 19.4.

DAILY WEATHER SUMMARY FOR NOVEMBER 1982AT WINNIPEG, MANITOBA

All Times Central Standard Not Daylight

1. Above normal temp. Mostly sunny. Light winds.
2. Near normal temp. Cloudy. Rain 5:45 A.M. to 6:15 A.M. 10:50 A.M. to 11:15 A.M. Snow 6:18 A.M. to 8:10 A.M. Visibility restricted in snow. Moderate winds with NW gust to 41 Km/h in afternoon.
3. Cold. Mostly cloudy. Snow 3:07 P.M. to 4:35 P.M. 6:14 P.M. to 11:01 P.M. Freezing drizzle 9:27 P.M. Continued. Freezing rain 10:18 P.M. to 11:01 P.M. Moderate winds with NNW gust to 52 Km/h in morning.
4. Cold. Cloudy. Freezing drizzle to 2:15 A.M. 8:13 A.M. to 1:10 P.M. Snow 5:35 A.M. to 5:44 A.M. 10:58 A.M. to 11:08 A.M. 7:06 P.M. continued. Moderate winds with N gust to 48 Km/h in morning. Visibility reduced in evening.
5. Cold. Cloudy. Snow to 5:40 A.M. 7:20 A.M. to 5:40 P.M. 8:37 P.M. to 9:32 P.M. Visibility reduced in morning. Light winds.
6. Below normal temp. Partly cloudy. Mostly light winds but SSE gust to 35 Km/h in morning.
7. Normal temp. Cloudy. Snow 10:18 A.M. to 1:15 P.M. Light fog in morning. Visibility reduced. Mostly light winds but NNW gust to 43 Km/h in afternoon.
8. Above normal temp. Mostly cloudy. Light winds.
9. Near normal temp. Sunny. Mostly light winds but SSE gust to 35 Km/h in morning. Smoke over city in morning.
10. Normal temp. Cloudy. Light winds. Light fog in evening. Visibility restricted.
11. Slightly below normal temp. Mostly cloudy. Snow 5:13 P.M. to 11:45 P.M. Smoke 1:35 P.M. to 2:12 P.M. Visibility reduced in snow and smoke. Moderate winds with NNW gust to 76 Km/h in evening.
12. Cold. Partly cloudy. Snow 10:24 A.M. to 11:10 A.M. Moderate winds with NW gust to 65 Km/h in morning.
13. Cold. Mostly sunny. Light winds. Red River frozen over. Open 206 days.
14. Below normal temp. Mostly cloudy. Snow 01:34 A.M. to 8:11 A.M. Ice crystals 3:58 A.M. to 6:32 A.M. Mostly light winds but S gust to 41 Km/h in afternoon. Visibility restricted in morning.
15. Above normal temp. Mostly sunny. Mostly light winds but S gust to 33 Km/h in morning.
16. Above normal temp. Mostly sunny. Light winds.
17. Mild. Partly cloudy. Mostly light winds but ESE gust to 31 Km/h in afternoon.
18. Mild. Cloudy becoming sunny late morning. Haze 7:57 A.M. to 9:37 A.M. Moderate winds with SSE gust to 46 Km/h in late morning.
19. Mild. Cloudy. Drizzle 3:23 A.M. to 11:33 P.M. Rain 8:50 P.M. to 10:10 P.M. 11:33 P.M. continued. Light fog most of day. Visibility restricted. Mostly light winds but SE gust to 37 Km/h in morning.
20. Above normal temp. Cloudy. Rain to 8:22 A.M. Drizzle 00:55 A.M. to 8:22 A.M. Freezing rain 8:22 A.M. to 10:10 A.M. Freezing drizzle 8:22 A.M. to 9:19 A.M. Ice pellets 9:57 A.M. to 11:14 A.M. Snow 10:05 A.M. continued. Blowing snow 4:21 P.M. to 5:11 P.M. Moderate winds with WNW gust to 70 Km/h in afternoon. Heavy fog 5:16 A.M. to 5:31 A.M. Light fog till mid morning. Visibility restricted.
21. Cold. Mostly sunny. Snow to 01:21 A.M. Mostly light winds but W gust to 48 Km/h in morning. Drifting snow in morning.
22. Cold. Mostly sunny. Ice crystals 9:45 A.M. to 2:25 P.M. Light winds Assiniboine River frozen over. Open 215 days.
23. Cold. Mostly sunny. Snow 7:47 A.M. to 8:15 A.M. 1:30 P.M. to 3:15 P.M. Mostly light winds but NNW gust to 37 Km/h in late morning.
24. Cold. Sunny. Mostly light winds but SSE gust to 46 Km/h in late morning. City polluted by Hydrogen sulphide gas 10 times normal amount coming from sour gas well at Lodgepole, Alberta which went out of control Oct. 17. Pollution extends to Lac du Bonnet in north Whiteshell in east. Smell noticeable.
25. Cold. Sunny. Light winds. Smoke aloft.
26. Cold. Sunny. Light winds.
27. Near normal temp. Mostly cloudy. Moderate winds with S gust to 61 Km/h in morning.
28. Above normal temp. Mostly sunny. Light winds. Light fog in late evening. Visibility restricted. Smoke over the city.
29. Above normal temp. Cloudy. Light winds. Light fog till evening.
30. Mild. Cloudy. Rain 5:09 P.M. to 7:19 P.M. Snow grains 7:50 P.M. to 8:12 P.M. Fog till evening. Heavy fog 8:13 A.M. to 8:26 A.M. Visibility restricted. Mostly light winds but SSE gust to 41 Km/h in morning.

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.	-8	-1.7	-2.1	-2.6	-2.1	-3.1	-2.6	-2.7	-1.7	-1	1.8	3.7	5.4	5.6	6.2	6.1	5.8	5.0	3.8	2.4	3.6	2.9	2.9	1.5
2.	.8	1.3	2.0	2.1	2.2	2.2	1.4	.7	.7	1.0	1.1	1.5	.5	.6	.3	-.4	-1.4	-2.1	-2.9	-4.0	-4.8	-3.3	-3.4	-4.6
3.	-4.9	-5.5	-6.1	-6.3	-4.7	-4.7	-5.0	-5.7	-6.2	-5.5	-5.2	-5.4	-4.6	-3.7	-3.7	-3.8	-4.1	-4.3	-4.5	-4.6	-5.7	-5.2	-5.0	-4.7
4.	-4.8	-5.5	-5.7	-6.1	-6.2	-6.0	-6.0	-6.1	-6.2	-6.0	-5.4	-4.7	-4.6	-4.3	-4.0	-4.0	-4.4	-4.2	-4.5	-5.3	-4.7	-5.0	-4.7	-5.3
5.	-5.3	-5.4	-5.6	-5.5	-5.3	-5.1	-5.1	-5.1	-5.0	-4.6	-4.1	-4.3	-4.1	-4.7	-4.2	-4.6	-4.6	-4.8	-4.9	-5.2	-4.8	-5.1	-5.4	-6.7
6.	-6.8	-6.2	-6.2	-5.8	-5.5	-5.3	-5.7	-6.0	-6.3	-5.7	-4.7	-4.1	-3.0	-2.3	-1.8	-.6	-.7	-1.3	-1.9	-2.6	-2.2	-1.3	-.5	0.0
7.	0.0	-.4	-1.5	-1.8	-2.5	-3.0	-3.6	-5.0	-5.0	-3.2	-2.7	-2.0	-.6	-.6	-.6	-1.1	-1.3	-1.3	-1.7	-2.3	-2.3	-2.0	-2.0	-2.0
8.	-1.8	-2.0	-2.2	-2.2	-2.2	-2.0	-2.0	-2.1	-2.1	-1.6	-1.0	-.6	-.8	-.7	-.6	-.9	-1.2	-1.7	-3.2	-2.7	-2.5	-3.0	-5.0	-4.8
9.	-5.1	-5.1	-5.4	-5.6	-6.3	-6.4	-6.8	-7.1	-7.0	-4.7	-3.0	-2.0	-2.5	-2.2	-2.0	-1.7	-1.3	-2.8	-2.4	-3.2	-4.1	-3.8	-3.8	-4.1
10	-4.9	-5.1	-4.9	-5.3	-6.1	-6.0	-5.0	-3.9	-3.3	-2.6	-2.2	-1.8	-1.7	-1.3	-1.0	-.5	-.2	-.4	-.3	-.5	-.8	-.8	0.0	-.1
11	-.1	.2	.2	-.4	-1.1	-1.2	-2.0	-2.5	-2.8	-2.3	-.3	-.6	-.9	-.7	-.4	-1.0	-3.4	-5.5	-6.5	-7.0	-7.5	-8.0	-8.9	-9.3
12	-10.3	-11.1	-12.4	-13.3	-14.1	-14.5	-15.0	-15.3	-15.7	-14.6	-13.7	-14.2	-12.6	-12.1	-12.0	-11.2	-12.0	-13.1	-14.8	-14.5	-14.2	-13.8	-13.6	-13.6
13	-14.0	-15.0	-14.8	-14.7	-14.5	-14.2	-14.9	-14.8	-14.8	-13.6	-11.5	-9.2	-8.9	-8.3	-8.1	-7.8	-8.4	-9.7	-10.9	-10.9	-10.8	-10.8	-11.2	-10.6
14	-10.3	-9.9	-9.7	-10.0	-10.6	-9.0	-8.9	-10.5	-12.5	-12.6	-11.2	-10.1	-8.8	-8.1	-7.8	-7.6	-7.7	-6.9	-7.1	-7.5	-7.3	-7.5	-8.1	-8.6
15	-8.6	-9.6	-9.2	-8.5	-7.2	-7.6	-6.8	-6.3	-6.3	-5.7	-4.6	-2.8	-1.4	0.0	.5	.8	-.5	-2.2	-3.5	-4.4	-5.3	-4.8	-5.4	-5.4
16	-5.0	-8.0	-7.1	-7.0	-6.2	-5.5	-4.8	-4.9	-5.0	-4.3	-2.7	-1.2	0.0	.5	1.0	.8	-.8	-2.5	-4.5	-3.7	-5.2	-5.2	-5.1	-5.9
17	-4.7	-4.8	-4.4	-4.8	-4.2	-4.1	-3.4	-3.3	-2.8	-2.5	-1.7	-.8	.2	1.0	2.0	1.0	.3	-.9	-2.0	-1.8	-2.2	-2.7	-3.1	-2.8
18	-2.9	-3.0	-3.4	-3.4	-3.6	-2.7	-2.4	-2.1	-2.1	-1.5	-.5	.8	1.0	2.0	2.0	2.5	1.3	.3	0.0	-.5	-.7	-2.0	-3.2	-2.6
19	-2.5	-.3	.9	1.3	1.9	2.2	2.4	3.2	3.5	4.0	3.8	4.5	4.9	5.5	5.7	5.8	5.9	5.8	5.4	5.2	5.5	5.9	6.0	6.0
20	6.2	6.4	6.1	6.0	5.1	4.4	1.8	1.0	.1	-1.8	-3.4	-4.9	-5.8	-7.9	-8.2	-8.9	-8.7	-8.8	-8.4	-8.3	-8.8	-9.1	-9.5	-10.5
21	-10.8	-11.5	-12.4	-14.2	-14.6	-15.0	-15.4	-15.3	-15.3	-14.9	-14.1	-13.4	-12.9	-12.5	-12.0	-11.7	-12.7	-13.6	-14.1	-14.5	-14.9	-13.9	-13.2	-13.8
22	-13.6	-13.7	-13.9	-15.2	-15.7	-15.0	-16.2	-17.8	-17.2	-17.0	-16.1	-15.8	-15.3	-15.3	-15.1	-14.6	-15.0	-16.1	-16.2	-16.6	-16.8	-16.2	-16.5	-16.6
23	-17.3	-18.0	-17.9	-17.4	-17.4	-17.2	-17.6	-16.4	-15.7	-15.7	-16.0	-15.4	-15.7	-15.6	-15.2	-15.6	-16.4	-18.1	-19.3	-19.4	-20.2	-17.6	-18.8	-19.0
24	-18.8	-18.4	-17.4	-17.0	-16.7	-16.3	-16.3	-15.7	-14.4	-14.2	-11.3	-8.7	-9.4	-9.7	-9.7	-10.7	-12.0	-13.3	-14.4	-16.0	-16.7	-18.0	-18.3	-18.3
25	-19.3	-20.0	-20.2	-20.2	-21.1	-21.1	-21.0	-20.6	-19.9	-18.8	-17.1	-16.2	-15.3	-14.6	-14.0	-13.1	-13.8	-15.0	-16.0	-17.3	-18.1	-17.2	-17.0	-17.2
26	-16.9	-19.8	-21.0	-20.2	-22.0	-22.0	-21.9	-23.8	-21.4	-19.8	-18.3	-17.0	-15.7	-15.2	-14.3	-14.2	-14.4	-15.3	-16.6	-16.1	-15.8	-16.3	-17.0	-16.5
27	-16.6	-17.0	-15.3	-14.2	-13.9	-12.6	-11.6	-10.3	-9.5	-9.5	-9.3	-8.9	-8.4	-7.1	-6.7	-6.8	-6.8	-6.7	-6.4	-6.6	-6.0	-5.4	-5.6	-5.1
28	-5.6	-6.6	-9.6	-9.1	-9.2	-10.2	-10.7	-11.7	-10.5	-8.9	-7.5	-6.3	-5.5	-4.6	-3.2	-3.8	-4.3	-5.7	-6.8	-6.4	-6.7	-9.2	-8.8	-10.2
29	-10.4	-11.3	-11.3	-11.2	-11.2	-10.4	-10.7	-9.4	-7.7	-6.7	-5.9	-3.9	-4.0	-3.9	-3.6	-3.1	-3.1	-3.2	-2.3	-3.3	-2.8	-4.0	-3.8	-4.3
30	-4.6	-5.6	-5.7	-5.8	-6.4	-5.9	-6.0	-5.7	-4.8	-2.6	-1.3	-.8	-.6	-.5	-.2	-.1	-.5	-.3	0.0	.1	.2	.4	.5	.5

MEAN	-7.2	-7.7	-7.8	-7.8	-7.9	-7.8	-8.0	-8.1	-7.8	-7.1	-6.2	-5.4	-4.9	-4.6	-4.3	-4.3	-4.8	-5.5	-6.1	-6.5	-6.7	-6.6	-6.8	-7.1
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MEAN DAILY WETBULB BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	1.6	-.3	-4.9	-5.1	-4.9	-3.5	-1.9	-1.9	-4.0	-2.3	-2.9	-13.3	-11.7	-9.0	-4.7	-3.7

MEAN DAILY WETBULB BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MEAN	-2.1	-1.0	3.9	-3.1	-13.5	-15.6	-17.1	-14.6	-17.6	-17.9	-9.3	-7.4	-6.2	-2.2

