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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

MARCH / MARS

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: 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	0.7	-12.9	-6.1	24.1	0.0	87	62		Tr.	Tr.	Tr.	Tr.	28.9	NNW	N 39*	8.4					
2	-4.5	-16.3	-10.4	28.4	0.0	82	44				Tr.	Tr.	11.9	S	S 28*	10.2					
3	-3.5	-12.7	-8.1	26.1	0.0	89	74		1.1	0.7	Tr.	Tr.	20.1	S	S 33	0.3					
4	-2.7	-14.8	-8.8	26.8	0.0	98	76		Tr.	Tr.	1	Tr.	4.9	N calm	NW 13*	0.0					
5	-4.8	-16.4	-10.6	28.6	0.0	84	70		Tr.	Tr.	Tr.	Tr.	16.3	N	NNE30	6.2					
6	-5.3	-16.8	-11.1	29.1	0.0	86	61				Tr.	Tr.	7.6	NNE	NNE17	8.2					
7	0.7	-8.0	-3.7	21.7	0.0	91	48		Tr.	Tr.	Tr.	Tr.	0.8	Cal	WSW 6	4.9					
8	3.5	-5.9	-1.2	19.2	0.0	95	55				Tr.	Tr.	4.8	S	S 13	4.2					
9	2.4	-4.1	-0.9	18.9	0.0	95	61		0.2	Tr.	Tr.	Tr.	11.2	NW	NW 24	4.1					
10	2.7	-5.0	-1.2	19.2	0.0	87	57		Tr.	Tr.	Tr.	Tr.	7.7	NW	WNW20	9.9					
11	12.5	-2.1	5.2	12.8	0.2	85	37				Tr.	Tr.	20.3	NW	WNW37	9.4					
12	2.8	-5.8	-1.5	19.5	0.0	86	63				Tr.	Tr.	23.8	N	N 35	2.6					
13	4.9	-8.2	-1.7	19.7	0.0	84	44				Tr.	Tr.	13.7	WNW	WNW24	9.3					
14	11.4	-1.4	5.0	13.0	0.0	90	46				Tr.	Tr.	19.3	SW	SSW28	7.7					
15	2.4	-4.8	-1.2	19.2	0.0	88	54				Tr.	Tr.	22.5	N	N 39	8.5					
16	12.4	-5.2	3.6	14.4	0.0	89	38				Tr.	Tr.	24.0	NNE	NNE39	10.7					
17	-0.5	-11.1	-5.8	23.8	0.0	72	53				0	0	31.1	N,NE	ENE41	10.8					
18	1.6	-10.7	-4.6	22.6	0.0	77	38				0	0	24.4	NNW	N 37	11.4					
19	2.1	-6.4	-2.2	20.2	0.0	89	43		Tr.	Tr.	0	0	20.7	NNW	NNW33	5.4					
20	6.5	-9.1	-1.3	19.3	0.0	91	35				0	0	6.7	Cal	ENE22	10.2					
21	9.6	-6.4	1.6	16.4	0.0	81	28				0	0	13.8	S	S 26	4.8					
22	0.7	-6.5	-2.9	20.9	0.0	89	35				0	0	17.4	NW	NW 26	11.0					
23	6.3	-5.8	0.3	17.7	0.0	76	31				0	0	11.8	SE	ESE20	6.9					
24	14.8	-3.2	5.8	12.2	0.8	83	28		Tr.	Tr.	0	0	16.3	SE	SE 22*	10.6					
25	7.7	0.0	3.9	14.1	0.0	100	78		4.4	6.3	12.5	0	23.5	WNW	N 43*	0.0					
26	4.8	-1.0	1.9	16.1	0.0	97	82				3	0	15.6	NNE	N 39	0.0					
27	6.8	-0.1	3.4	14.6	0.0	100	77		0.2		0.2	0	10.1	S,SSW	S 28	2.5					
28	9.7	1.7	5.7	12.3	0.7	97	71		0.6		0.6	0	13.3	NW	NW 22	3.7					
29	13.3	-1.8	5.8	12.2	0.8	95	36					0	10.2	E,SE	SE 22*	8.1					
30	11.7	-0.8	5.5	12.5	0.5	92	46					0	10.9	Cal ESE	ESE22	9.4					
31	8.0	-0.3	3.9	14.1	0.0	96	67		0.6	Tr.	0.6	0	18.5	SE	N 41	1.8					
MEAN MOYENNE	4.5	-6.5	-1.0	TOTAL 589.7	TOTAL 3.0	89	53	TOTAL	TOTAL 5.8	TOTAL 7.6	TOTAL 14.6	TOTAL 0	15.5	PREVAILING N DOMINANTE	MAXIMUM N 43	TOTAL 201.2					
NORMAL NORMALE	-2.9	-13.3	-8.1	809.8	2.9	89	61	0.1	6.1	21.1	26.2	5	19.6	South	46	170.4					
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	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			589.7	868.4	809.8	TOTAL FOR MONTH TOTAL DU MOIS			3.0	Nil	2.9	5	1	1	1	0	3	2	1	0	0
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET			4710.2	5205.6	5134.5	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL			1919.3	1574.6	1790.7	5	1	1	1	0	3	2	1	0	0

UDC 551.506.1 ()

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

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CLIMATOLOGICAL SUMMARY FOR MARCH 1981AT WINNIPEG, MANITOBA

This March was the 4th warmest on record. The warmest was in 1878 with a mean of 1.6. The warmest day was the 24th with a maximum of 14.8 while the coldest night was the 6th with a minimum of minus 16.8. Rainfall with 5.8mm was near normal while the snowfall with 7.6cm was much below the normal 21.1. Most of the months precipitation fell on the 25th. Sunshine with 201.2 hours was above normal while the mean wind was 4.1 Km/h below normal.

The Red River was clear of ice on the 29th.

DAILY WEATHER SUMMARY FOR MARCH 1981AT WINNIPEG, MANITOBA

All Times Central Standard
Not Daylight

1. Above normal temperatures. Mostly sunny. Snow 1:25 a.m. to 8:03 a.m. Moderate NNW winds gusting to 57 Km/h. Drifting snow.
2. Above normal temperatures. Sunny. Mostly light winds but S gust to 39 Km/h in evening.
3. Above normal temperatures. Cloudy. Snow 3:26 a.m. to 3:35 p.m. Snow pellets 7:10 a.m. to 7:18 a.m. Visibility restricted in morning. Moderate south winds gusting to 50 Km/h early morning. Drifting snow.
4. Above normal temperatures. Cloudy. Snow 10:08 a.m. to 12:21 p.m. Light winds.
5. Slightly above normal temperatures. Partly cloudy. Snow 9:09 a.m. to 1:17 p.m. Ice crystals 11:16 a.m. to 1:08 p.m. Mostly light winds but N gust to 41 Km/h in afternoon. Drifting snow.
6. Slightly above normal temperatures. Mostly sunny. Light winds.
7. Mild. Partly cloudy. Freezing rain 4:56 a.m. to 5:27 a.m., 6:54 a.m. to 7:26 a.m. Freezing drizzle 5:56 a.m. to 6:21 a.m. Snow 5:16 a.m. to 6:30 a.m. Ice crystals 5:16 a.m. to 5:50 a.m. Light winds.
8. Mild. Partly cloudy. Light winds. Family killed when light plane crashes 4 miles SE Altamont, 125 Km SW of Winnipeg.
9. Mild. Partly cloudy. Snow flurries 9:10 a.m. to 12:20 p.m. Snow 9:39 p.m. to 11:53 p.m. Mostly light winds but NNW gust to 41 Km/h in afternoon.
10. Mild. Mostly sunny. Light snow 3:50 a.m. to 4:05 a.m. Light winds.
11. Record breaking high temperature. Mostly sunny. Moderate winds gusting to 57 Km/h in afternoon.
12. Mild. Mostly cloudy. Snow flurries 11:02 a.m. to 5:19 p.m. Visibility restricted. Moderate winds gusting to 48 Km/h in evening.
13. Mild. Mostly sunny. Mostly light winds but SW gust to 33 Km/h late evening.
14. Record breaking high temperatures. Mostly sunny. Mostly light winds but SW gust to 37 Km/h in morning.
15. Mild. Mostly sunny. Moderate winds gusting to 50 Km/h in morning.
16. Record high temperature. Sunny. Moderate winds gusting to 54 Km/h in evening.
17. Above normal temperatures. Sunny. Moderate winds gusting to 56 Km/h in afternoon.
18. Above normal temperatures. Sunny. Moderate winds gusting to 48 Km/h in afternoon.
19. Above normal temperatures. Partly cloudy. Light snow 4:58 p.m. to 5:31 p.m. Moderate winds gusting to 44 Km/h late morning.
20. Above normal temperatures. Sunny. Light winds.
21. Above normal temperatures. Partly cloudy. Mostly light winds but S gust to 41 Km/h in afternoon.
22. Above normal temperatures. Sunny. Mostly light winds but NW gust to 35 Km/h in afternoon.
23. Mild. Partly cloudy. Mostly light winds but SE gust to 33 Km/h in afternoon. Helicopter taking readings of ice condition at Hudson Bay at mouth of Tamuna River 100 Km NW of Ft. Severn, Ontario crashed. Trappers travelled 7 hours by snowmobile to summon help. Men rescued on 24th with several broken bones.
24. Mild. Mostly sunny. Showers 8:25 p.m. to 11:25 p.m. Light rain 11:55 p.m. continued. Mostly light winds but S gust to 41 Km/h in afternoon.
25. Mild. Cloudy. Rain to 6:42 a.m. Drizzle 5:50 a.m. to 6:50 a.m. Rain 6:42 a.m. to 10:42 a.m. Snow 10:31 a.m. to 10:20 p.m. Visibility restricted. Numerous accidents. Cars stranded on highways. Roads slippery. Moderate winds with N gust to 57 Km/h in evening. Light fog in morning.
26. Mild. Cloudy. Mostly light winds but N gust to 44 Km/h in early morning.
27. Mild. Mostly cloudy. Drizzle 6:10 a.m. to 7:20 a.m. Showers 10:45 p.m. continued. Heavy fog 6:12 a.m. to 9:55 a.m. Light fog till noon. Mostly light winds but S gust to 37 Km/h in afternoon.
28. Mild. Mostly cloudy. Showers to 1:00 a.m. Rain 1:00 a.m. to 8:26 a.m. Drizzle 8:26 a.m. to 8:46 a.m. Rain 8:46 a.m. to 9:42 a.m. Light winds.
29. Mild. Partly cloudy. Mostly light winds. Light fog in morning.
30. Mild. Mostly sunny. Mostly light winds.
31. Mild. Mostly cloudy. Showers 5:29 p.m. to 8:13 p.m. Rain 8:13 p.m. to 10:24 p.m. Drizzle 8:19 p.m. to 10:59 p.m. Freezing drizzle 10:59 p.m. to 11:17 p.m. Ice pellets 11:17 p.m. continued. Mostly light winds but NNW gust to 56 Km/h in evening.

HOURLY WETBULB TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF MARCH 1981

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.	-13.5	-13.0	-14.3	-14.4	-15.1	-15.1	-16.0	-16.2	-15.0	-13.5	-11.3	-10.0	-9.4	-7.5	-6.3	-7.0	-7.1	-6.7	-7.0	-6.1	-7.8	-7.2	-7.1	-7.2
2.	-13.1	-13.6	-14.3	-14.4	-15.2	-15.3	-15.9	-16.0	-15.4	-13.6	-11.9	-10.9	-9.9	-8.8	-8.0	-7.7	-7.0	-7.5	-8.0	-9.3	-10.7	-11.1	-11.7	-12.3
3.	-9.5	-9.3	-9.2	-9.0	-8.2	-8.0	-7.6	-7.0	-7.0	-5.8	-5.1	-4.6	-4.6	-3.8	-3.1	-2.7	-2.0	-2.3	-2.5	-3.3	-3.4	-4.3	-4.2	-4.9
4.	-11.7	-11.2	-13.0	-13.8	-11.7	-9.6	-9.3	-9.5	-8.3	-7.4	-6.6	-6.1	-5.4	-4.8	-4.5	-4.2	-3.9	-4.0	-5.7	-6.9	-8.1	-9.5	-10.0	-10.0
5.	-12.3	-13.5	-13.7	-13.5	-15.4	-15.7	-16.3	-16.3	-15.0	-13.0	-10.8	-9.7	-8.2	-6.4	-6.2	-6.8	-7.0	-7.3	-7.8	-8.4	-9.6	-11.3	-10.8	-10.5
6.	-13.8	-14.6	-14.2	-15.1	-15.1	-16.1	-16.0	-16.2	-15.0	-13.5	-11.3	-10.0	-9.4	-7.5	-6.3	-7.0	-7.1	-6.7	-7.0	-6.1	-7.8	-7.2	-7.1	-7.2
7.	-7.6	-8.3	-7.4	-7.3	-7.0	-6.8	-6.6	-6.5	-6.3	-5.7	-4.7	-4.2	-3.7	-2.8	-2.2	-2.7	-2.0	-2.3	-2.5	-3.3	-3.4	-4.3	-4.2	-4.9
8.	-4.1	-4.0	-4.5	-5.2	-4.6	-3.8	-3.4	-3.5	-3.5	-3.0	-2.3	-1.8	-1.6	0.0	0.5	-0.7	-0.6	-0.8	-0.8	-1.3	-1.7	-2.1	-2.6	-2.7
9.	-2.2	-2.8	-3.7	-4.1	-3.1	-3.2	-3.8	-3.9	-3.7	-2.9	-2.2	-1.6	-1.7	0.1	0.5	-0.7	-0.6	-0.8	-0.8	-1.3	-1.7	-2.1	-2.6	-2.7
10.	-2.5	-2.9	-3.0	-3.6	-4.2	-4.3	-4.1	-5.4	-4.5	-3.6	-2.3	-2.0	-1.7	-1.3	-0.8	-0.7	-0.5	-0.3	-0.8	-1.2	-1.4	-2.4	-2.4	-2.5
11.	-2.5	-2.7	-1.3	-1.3	-1.9	-1.6	-2.5	-2.5	-1.7	0.0	2.0	3.3	3.9	5.0	6.0	6.5	6.4	5.4	3.9	1.8	0.7	0.4	0.5	0.5
12.	-1.1	-1.5	-1.4	-1.5	0.0	-1.5	-1.7	-1.9	-2.2	-2.2	0.3	1.4	1.4	1.1	0.0	-1.1	-1.2	-1.8	-2.3	-3.4	-3.6	-4.5	-5.3	-6.1
13.	-6.5	-7.1	-7.5	-7.5	-7.6	-8.0	-8.0	-8.0	-7.0	-5.3	-3.8	-2.3	-1.7	-0.8	-0.6	-0.6	-2.2	0.0	0.6	0.0	1.4	2.0	1.6	-1.8
14.	-1.3	-1.3	-1.6	-2.0	-2.0	-2.2	-2.0	-2.4	-1.6	-1.1	1.8	3.2	4.7	5.3	6.3	6.2	5.0	4.5	4.1	2.5	1.4	2.0	1.7	0.0
15.	-2.0	0.0	-1.0	-1.6	-1.6	-2.2	-2.8	-3.8	-4.0	-4.9	-4.5	-3.4	-2.5	-1.7	-1.5	-1.3	-1.0	-1.4	-2.0	-3.3	-3.4	-4.1	-4.5	-5.0
16.	-5.0	-5.0	-5.2	-5.0	-4.5	-4.2	-4.0	-4.1	-2.5	-1.6	1.3	4.1	5.3	6.3	6.3	6.1	6.0	5.2	2.7	0.7	-0.3	-1.7	-3.0	-4.5
17.	-5.5	-7.3	-8.5	-9.4	-10.2	-11.0	-11.2	-11.5	-10.8	-8.8	-6.6	-6.6	-5.7	-4.1	-3.8	-3.2	-2.9	-3.4	-4.8	-5.6	-5.8	-6.4	-7.5	-8.0
18.	-8.3	-9.7	-10.2	-10.6	-11.0	-11.1	-11.2	-10.7	-9.7	-7.5	-7.0	-5.9	-4.8	-3.5	-2.4	-2.1	-1.8	-2.7	-2.9	-3.9	-4.7	-5.8	-5.1	-5.8
19.	-5.3	-5.0	-5.0	-5.4	-5.2	-5.0	-4.9	-5.0	-4.8	-4.3	-4.0	-2.7	-1.4	-1.9	-2.0	-1.5	-2.5	-2.4	-2.7	-3.8	-4.4	-4.7	-5.0	-5.7
20.	-6.6	-7.3	-7.1	-8.2	-8.3	-8.8	-8.8	-7.8	-5.2	-2.8	-2.0	-1.0	-0.3	0.4	0.7	1.0	0.8	0.4	-0.4	-1.9	-2.9	-3.5	-4.1	-4.5
21.	-5.2	-5.6	-5.3	-5.6	-6.3	-6.2	-6.8	-6.0	-4.0	-2.3	-1.0	0.7	1.6	2.1	2.5	2.4	2.1	2.5	2.5	1.7	0.0	-1.0	-1.8	-2.4
22.	-2.7	-3.4	-3.8	-3.9	-3.9	-5.8	-6.6	-6.9	-6.0	-5.2	-4.8	-4.5	-4.5	-3.8	-3.6	-3.3	-3.6	-3.3	-3.8	-5.3	-5.8	-6.0	-5.4	-6.0
23.	-6.7	-6.0	-6.6	-6.1	-6.4	-6.9	-6.2	-6.3	-5.2	-4.1	-2.5	-1.0	-2.2	-1.1	-1.0	-0.9	0.0	0.0	0.0	-1.8	-2.7	-3.5	-4.8	-4.5
24.	-4.8	-4.4	-5.3	-4.7	-5.2	-4.5	-4.5	-4.1	-2.5	-1.1	1.5	3.1	4.4	5.4	5.9	6.5	7.2	7.2	6.5	5.8	4.8	5.4	5.5	5.3
25.	5.0	4.2	3.9	4.2	4.5	5.0	4.8	3.3	3.2	2.3	2.0	1.0	0.2	0.1	0.1	-1.1	0.0	0.1	0.1	0.2	0.3	0.4	0.3	0.4
26.	1.4	1.3	1.3	1.3	1.2	1.1	0.0	0.0	0.1	0.4	0.7	1.0	1.0	0.9	1.5	2.1	3.1	3.1	3.0	2.0	0.0	0.0	0.0	0.0
27.	1.1	1.0	1.3	1.0	1.0	0.7	0.5	0.3	0.1	0.1	0.5	1.2	3.1	3.8	4.1	4.7	3.4	3.3	2.8	1.8	1.0	0.8	1.4	1.7
28.	2.1	2.2	2.0	1.9	1.7	1.7	1.5	1.7	1.8	2.1	2.3	2.8	3.5	4.2	4.9	5.5	6.4	7.2	7.0	5.7	5.0	4.3	4.2	3.7
29.	2.3	1.3	1.3	1.3	1.2	1.4	1.8	1.8	1.8	2.2	2.7	5.2	6.7	6.4	6.1	6.8	6.8	5.6	5.3	4.3	4.0	3.5	3.5	2.8
30.	2.3	1.3	1.3	1.3	1.2	1.4	1.8	1.8	1.8	2.2	2.7	5.2	6.7	6.4	6.1	6.8	6.8	5.6	5.3	4.3	4.0	3.5	3.5	2.8
31.	4.5	2.7	2.8	2.8	3.0	3.2	3.4	3.4	3.8	5.0	5.7	5.5	5.2	5.2	5.0	5.0	4.9	4.7	4.3	4.0	4.0	3.8	3.8	3.8

MEAN	-3.8	-4.2	-4.5	-4.8	-4.9	-5.0	-5.1	-5.2	-4.5	-3.5	-2.4	-1.5	-1.0	-0.3	0.0	0.2	0.1	0.0	0.0	-0.5	-1.5	-2.2	-2.7	-3.1	-3.5
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