



Fisheries and Environment Canada

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Atmospheric Environment

Environnement atmosphérique

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS OCTOBER / OCTOBRE

19 81

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

LAT: 49 ° 54'N		LONG: 97 ° 14'W		ELEVATION: ALTITUDE: 239.6		METRES (ASL) 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				
	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		HOURS HEURES			
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h		km/h						
1	11.0	1.2	6.1	11.9	1.1	97	46	TR.	TR.	TR.		10.8	NNE	NNE24	9.6					
2	14.6	2.8	8.7	9.3	3.7	85	34					31.8	SSE	S54	10.4					
3	12.8	6.9	9.9	8.1	4.9	100	52	13.4		13.4		15.0	SSE	SSE35	0.2					
4	10.8	7.3	9.1	8.9	4.1	98	84	2.2		2.2		7.6	SE, NNW	SE17	0.0					
5	11.3	1.3	6.3	11.7	1.3	97	66	TR.		TR.		11.5	NNW/NNW	N22	0.4					
6	14.0	-0.5	6.8	11.2	1.8	98	36					13.0	WNW	W22*	9.6					
7	14.0	2.1	8.1	9.9	3.1	81	38					25.8	S	S37	5.7					
8	17.1	8.9	13.0	5.0	8.0	61	39	0.2		0.2		32.6	SE	SSE52	0.9					
9	14.0	8.8	11.4	6.6	6.4	95	56	2.8		2.8		30.7	S	S43	0.0					
10	16.7	6.5	11.6	6.4	6.6	100	49					19.6	SSE	S26	6.2					
11	20.3	9.8	15.1	2.9	10.1	75	33					33.8	SSE	S56	4.7					
12	13.2	9.4	11.3	6.7	6.3	100	66	21.8		21.8		37.7	SSE	S52	0.0					
13	10.5	4.3	7.4	10.6	2.4	83	66					24.4	W/SSW	SSW37*	0.7					
14	9.6	4.4	7.0	11.0	2.0	81	53					14.1	W	W24	2.6					
15	11.3	3.5	7.4	10.6	2.4	92	59	TR.		TR.		7.3	SSW	W13*	1.7					
16	20.3	3.6	12.0	6.0	7.0	94	48					18.8	SSW/SW	SW28*	3.5					
17	12.3	1.4	6.9	11.1	1.9	95	70	4.5		4.5		34.1	NNW	NNW59*	0.0					
18	2.9	-2.2	0.4	17.6	0.0	93	45		TR.	TR.		27.4	NNW	NNW44	6.5					
19	11.2	0.4	5.8	12.2	0.8	94	60	0.4		0.4		19.0	S/NW	S35*	5.7					
20	3.2	-6.3	-1.6	19.6	0.0	90	42		TR.	TR.		21.1	N/NNE	NNE33	7.8					
21	-1.7	-7.3	-4.5	22.5	0.0	94	58		TR.	TR.		12.3	W	W26	1.9					
22	-0.1	-8.8	-4.5	22.5	0.0	95	71		0.2	TR.	TR.	21.2	NW	NNW41	3.4					
23	-1.6	-10.4	-6.0	24.0	0.0	90	47		0.8	0.2	TR.	18.5	W	S35*	8.5					
24	-0.9	-9.3	-5.1	23.1	0.0	92	61		2.9	1.8	2	25.6	WNW	S41	0.0					
25	-4.7	-13.4	-9.1	27.1	0.0	84	49		TR.	TR.	2	15.1	W	S31	8.8					
26	10.0	-5.8	2.1	15.9	0.0	87	61	0.4	TR.	0.4	2	31.3	S	SSE61	1.8					
27	0.8	-4.5	-1.9	19.9	0.0	90	75	1.2		1.2	0	15.5	N	NNW31	0.0					
28	9.0	0.7	4.9	13.1	0.0	90	70	0.5		0.5	0	27.4	SE	SSE41	0.7					
29	14.8	5.3	10.1	7.9	5.1	86	64	TR.		TR.	0	29.5	SSE	SE41	6.9					
30	12.6	4.4	8.5	9.5	3.5	98	66	1	10.2	10.2	0	27.1	SE	SSE31*	0.0					
31	12.2	4.3	8.3	9.7	3.3	88	46		TR.	TR.	0	18.8	W	W26*	6.4					
MEAN MOYENNE	9.7	0.9	5.3	TOTAL 392.5	TOTAL 85.8	90	55	TOTAL 1	TOTAL 57.6	TOTAL 3.9	TOTAL 59.6	TOTAL 21.9	PREVAILING DIRECTION DOMINANTE SSE	MAXIMUM SSE61	TOTAL 114.6					
NORMAL NORMALE	11.9	1.1	6.6	355.7	93.1			0.5	29.2	5.6	34.8	20.3	SOUTH		158.4					
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	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE			
TOTAL FOR MONTH TOTAL DU MOIS	392.5	432.7	355.7	TOTAL FOR MONTH TOTAL DU MOIS	85.8	46.3	93.1	13	8	6	3	0	3	1	1	0	0			
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET	592.3	700.4	588.9	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL	1821.8	1914.1	1785.3													

UDC 551.506.1 ( )

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\* INDICATES MORE THAN ONE OCCURRENCE

OF SAME SPEED BUT NOT NECESSARILY THE SAME DIRECTION.

## CLIMATOLOGICAL SUMMARY FOR OCTOBER 1981

## AT WINNIPEG, MANITOBA

The month was cooler and wetter than normal. 59.6 mm of precipitation fell in comparison to the normal 34.8. The mean temperature of 5.3°C was below normal as was the sunshine of 114.6 hours. The month has winds above normal with a mean of 21.9 km/h as compared to the normal 20.3 km/h. There were 13 days with measurable precipitation.

## DAILY WEATHER SUMMARY FOR OCTOBER 1981

## AT WINNIPEG, MANITOBA

All Times Central Standard  
Not Daylight

1. Below normal temperature. Mostly sunny. Rain to 00.58 AM. Showers 02.40 AM to 03.10 AM. Snow flurries 02.55 AM to 03.10 AM. Mostly light winds but NNE gust to 31 km/h in morning.
2. Near normal temperature. Mostly sunny. Moderate SSE wind gusting to 81 km/h in afternoon.
3. Slightly above normal temperature. Cloudy. Showers 11.42 AM to 03.08 PM. Rain sometimes heavy. 03.08 PM continued. Mostly light winds but SSE gust to 50 km/h in morning.
4. Near normal temperature. Cloudy. Rain to 5.08 AM. Drizzle 00.38 AM to 7.40 AM. 6.15 PM to 11.15 PM. Light winds. Light fog in morning. Visibility restricted.
5. Below normal temperature. Cloudy. Drizzle. 2.45 AM to 3.35 AM. Light winds.
6. Below normal temperature. Mostly sunny. Mostly light winds but NW gust to 35 km/h in afternoon.
7. Near normal temperature. Partly cloudy. Moderate S winds with SSE gust to 57 km/h in afternoon.
8. Above normal temperature. Cloudy. Showers 11.03 AM to 1.20 PM. 3.10 PM to 6.35 PM. Moderate winds with S gust to 83 km/h in evening.
9. Above normal temperature. Cloudy. Showers 5.32 AM to 1.42 PM. Moderate winds with S gust to 72 km/h in morning.
10. Above normal temperature. Partly cloudy. Heavy fog 7.33 AM to 8.15 AM. Light fog till 11.30 AM. Visibility restricted. Mostly light winds but SSE gust to 35 km/h in evening.
11. Mild. Partly cloudy. Moderate winds with S gust to 87 km/h in afternoon.
12. Above normal temperature. Cloudy. Rain 3.52 AM to 3.07 PM. Drizzle 6.15 to 8.13 PM. Light fog in morning and afternoon. Visibility restricted. Moderate winds with S gust to 78 km/h in afternoon.
13. Slightly above normal temperature. Cloudy. Moderate winds with SSW gust to 59 km/h in morning.
14. Near normal temperature. Mostly cloudy. Mostly light winds but West gust to 37 km/h in morning.
15. Near normal temperature. Mostly cloudy. Rain 5.17 AM to 6.13 AM. Light winds.
16. Mild. Mostly cloudy. Mostly light winds but SW gust to 46 km/h in afternoon.
17. Slightly above normal temperature. Cloudy. Showers 00.45 AM to 02.00 AM. Rain. 02.00 AM to 6.25 PM. Moderate NNW winds gusting to 80 km/h in afternoon.
18. Cool. Partly cloudy. Snow 2.30 AM to 3.15 AM. Moderate NNW winds gusting to 70 km/h in morning.
19. Slightly above normal temperature. Partly cloudy. Rain 01.26 AM to 1.57 AM. Showers 2.34 AM to 3.43 AM. 9.43 PM to 10.43 PM. Rain 10.43 PM to 11.07 PM. Mostly light winds but S gust to 46 km/h in morning.
20. Cold. Partly cloudy. Snow 2.48 AM to 4.24 AM. Moderate N winds gusting to 46 km/h in morning.
21. Cold. Mostly cloudy. Snow 3.11 AM to 5.17 AM. Snow flurries 9.49 AM to 6.04 PM. Snow 7.37 PM Continued. Mostly light winds but W gust to 35 km/h in morning. Visibility restricted in snow late evening.
22. Cold. Mostly cloudy. Snow to 4.11 AM. Flurries 12.11 PM to 3.40 PM. Visibility restricted in early afternoon. Moderate winds with NNW gust to 56 km/h in afternoon. Heavy snowfalls occurred. N and W of Winnipeg especially near Elie. About 25 vehicles left road due to icy conditions and blowing snow. However no serious injuries. Some parts of S manitoba near Melita and Boissevain had about 10 cm snow on ground.
23. Cold. Partly cloudy. Snow 1.47 AM to 7.41 AM. Mostly light winds but S gust to 56 km/h late evening. Visibility reduced in morning.
24. Cold. Cloudy. Snow 00.19 AM to 2.45 PM. Visibility reduced till late morning. Moderate winds with S gust to 65 km/h in morning. Drifting snow.
25. Cold. Mostly sunny. Snow 7.12 AM to 7.20 AM. Ice crystals 7.25 AM to 12.09 PM. Mostly light winds but S gust to 48 km/h in late evening.
26. Near normal temperature. Mostly cloudy. Freezing rain 5.52 AM to 6.22 AM. Snow 5.52 AM to 6.22 AM. 10.19 AM to 12.35 PM. Rain 8.55 AM to 12.35 PM. Moderate winds with SSE gust to 87 km/h in morning. Roads icy.
27. Below normal temperature. Cloudy. Showers 5.48 PM to 7.37 PM. Rain 8.39 PM. continued. Mostly light wind but NNW gust to 43 km/h early morning.
28. Above normal temperature. Cloudy. Rain to 5.08 AM. Showers 7.20 AM to 1.33 PM. Moderate winds with SE gust to 70 km/h in afternoon.
29. Mild. Mostly sunny. Showers 8.04 PM to 8.12 PM. Haze and light fog in morning and late afternoon. Visibility restricted. Moderate winds with SSE gust to 56 km/h in evening.
30. Mild. Cloudy. Thunder 9.43 AM to 10.18 AM. Showers 9.24 AM to 4.38 PM. Drizzle 12.26 PM to 3.45 PM. 5.08 PM to 5.28 PM. Rain 4.51 PM continued. Moderate winds with WSW gust to 52 km/h in afternoon. Haze and light fog in morning and afternoon. Visibility restricted.
31. Mild. Cloudy becoming sunny late morning. Rain to 7.51 AM. Mostly light winds but WSW gust to 43 km/h in morning.

HOURLY WEIBULB TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF OCTOBER 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.	1.5	2.0	2.4	2.9	2.9	1.3	1.3	1.7	3.0	4.2	4.9	5.2	5.9	6.4	6.3	5.9	6.0	5.4	4.7	2.4	2.0	2.5	2.7	2.7
2.	2.7	2.7	3.6	3.0	3.0	3.0	3.0	2.8	3.5	4.4	5.2	5.2	6.1	7.1	6.9	7.5	7.9	7.2	6.4	5.3	4.8	4.6	4.1	3.8
3.	4.0	4.2	4.2	4.1	4.0	4.2	4.7	5.3	6.1	6.5	7.8	8.0	8.0	9.0	9.7	10.0	9.5	9.8	10.0	9.4	9.1	9.2	9.6	8.4
4.	8.0	7.7	7.4	7.3	7.2	7.2	7.8	7.3	7.5	7.8	8.3	8.5	8.7	8.7	9.1	9.0	9.3	9.4	9.3	9.0	9.0	8.7	8.8	8.6
5.	8.5	8.2	8.2	8.0	7.8	7.8	7.8	7.8	8.0	8.2	8.1	8.2	8.2	8.5	7.8	7.7	7.7	7.7	6.7	4.0	3.2	3.2	1.5	1.8
6.	.9	.6	.1	-1	-5	0.0	.8	1.3	2.2	4.0	6.7	7.2	7.5	7.1	7.0	7.1	6.9	6.3	5.0	3.4	2.6	3.4	2.7	2.7
7.	2.0	1.4	1.0	1.3	2.0	2.3	2.8	2.8	3.6	5.0	5.9	6.9	7.0	7.2	7.4	7.2	7.1	7.3	7.1	6.8	6.1	5.8	5.6	5.4
8.	5.7	5.8	5.9	6.0	5.8	5.9	5.9	5.5	5.9	6.4	7.0	8.0	8.8	9.8	11.1	10.9	11.3	10.9	10.4	9.5	9.0	8.8	9.0	9.2
9.	9.1	8.8	8.7	8.8	8.8	9.0	9.3	8.5	8.5	8.4	8.4	8.7	9.1	9.2	9.5	9.7	9.7	9.7	9.6	9.5	9.5	9.4	9.4	9.1
10	9.0	8.7	8.6	8.2	7.8	7.3	6.8	6.5	6.6	7.0	7.7	8.3	9.3	11.0	11.4	12.0	11.2	10.2	9.4	9.4	9.6	9.2	3.8	8.4
11	8.0	8.0	8.2	7.9	7.7	7.8	8.2	8.8	9.2	9.7	11.3	11.1	10.3	11.5	11.0	11.3	11.2	11.2	10.5	10.7	10.3	10.2	9.9	9.9
12	9.5	9.0	8.8	8.8	8.7	8.7	8.9	9.3	9.6	9.8	9.8	10.2	10.3	10.6	10.8	11.4	12.0	11.8	12.0	12.0	12.1	12.1	12.1	11.9
13	8.0	5.8	4.5	4.1	3.3	2.9	3.0	3.3	3.8	5.0	5.6	6.5	6.2	6.8	7.1	7.2	7.1	6.4	6.2	6.1	6.0	5.9	5.6	5.3
14	5.0	5.0	4.0	3.2	3.0	2.6	2.5	2.5	2.5	2.8	3.2	3.8	4.2	4.4	4.5	5.5	5.5	5.6	5.0	5.0	5.4	5.1	5.0	4.4
15	3.9	3.4	3.0	2.7	2.4	2.9	3.2	3.4	3.8	4.0	5.0	5.6	6.8	6.5	6.5	7.0	7.5	6.7	6.3	7.0	7.1	7.2	6.0	5.5
16	4.2	4.4	4.7	4.0	4.2	3.4	4.6	4.9	5.6	6.3	7.9	9.0	10.5	11.1	13.0	13.5	13.4	12.1	11.1	10.5	9.6	8.9	8.5	8.2
17	8.9	9.0	9.3	9.3	9.3	9.4	8.6	8.5	7.4	7.1	6.9	6.1	5.9	6.1	5.7	5.1	4.6	3.9	3.4	3.0	2.5	2.0	1.6	1.4
18	.5	.5	.3	.2	.2	0.0	-1.2	-2.2	-1.6	-1.8	-2.6	-2.1	-2.2	-1.3	-2.0	-1.5	-1.2	-2.2	-2.8	-2.8	-3.0	-2.6	-1.9	-1.4
19	-1.2	-3	-3	.4	.3	1.3	1.6	2.0	3.5	5.8	7.0	7.3	6.7	6.8	7.0	6.4	5.7	5.0	4.2	3.8	3.5	2.9	3.3	3.1
20	2.6	1.7	1.3	.8	-.2	-.5	-2.2	-3.5	-3.8	-3.8	-4.2	-4.3	-4.0	-4.0	-4.0	-3.8	-3.9	-4.7	-4.0	-4.6	-4.7	-4.5	-6.5	-6.0
21	-4.9	-5.9	-6.5	-6.9	-6.0	-6.0	-6.0	-7.7	-7.3	-5.6	-4.6	-4.3	-4.4	-4.0	-4.3	-4.0	-4.0	-4.1	-4.4	-4.8	-5.0	-5.0	-5.4	-5.4
22	-5.9	-5.0	-5.2	-5.7	-6.9	-8.3	-8.0	-6.7	-6.0	-4.4	-3.8	-3.1	-1.3	-3.2	-3.0	-2.3	-2.7	-3.7	-5.1	-6.2	-7.1	-8.1	-8.3	-8.4
23	-7.7	-7.9	-6.3	-6.0	-6.7	-6.8	-7.0	-8.9	-10.2	-8.4	-7.5	-5.9	-6.5	-5.5	-5.0	-3.8	-5.2	-5.5	-6.0	-6.2	-6.0	-6.6	-4.9	-5.0
24	-4.2	-4.3	-4.1	-4.1	-3.8	-3.4	-2.9	-2.5	-2.0	-2.0	-2.2	-2.0	-2.0	-2.0	-2.1	-2.5	-3.5	-4.0	-4.3	-4.7	-6.4	-8.3	-8.3	-9.5
25	-10.1	-11.1	-12.1	-11.8	-11.7	-11.7	-11.6	-12.8	-13.1	-11.4	-10.7	-8.7	-8.8	-7.5	-7.6	-7.1	-7.5	-7.9	-9.8	-9.9	-9.2	-8.4	-6.8	-5.5
26	-6.2	-5.5	-5.4	-4.7	-3.5	-1.9	-1.5	-1.0	-.9	-.8	-.2	0.0	.8	2.8	5.9	6.4	5.5	4.8	3.0	2.2	1.3	.8	-.3	-.8
27	-1.5	-1.8	-1.8	-1.9	-2.1	-3.3	-3.7	-4.1	-5.2	-4.0	-3.8	-3.8	-3.7	-3.3	-3.0	-3.0	-2.6	-2.6	-2.2	-1.1	-1.3	-.7	-.3	0.0
28	.2	.3	.7	.8	1.2	1.5	1.6	1.8	2.4	3.4	3.8	4.0	4.6	5.5	5.9	6.1	6.0	6.2	5.3	4.7	4.6	4.8	5.0	4.8
29	5.2	5.5	5.6	5.6	5.5	5.0	4.7	4.5	4.7	5.8	7.0	8.2	8.8	9.8	10.6	10.9	10.7	10.0	9.4	9.6	9.2	9.1	9.1	9.0
30	8.9	9.4	10.2	11.3	11.9	10.0	8.6	8.9	9.0	9.1	9.5	9.5	9.8	10.2	10.6	10.7	7.3	6.3	5.3	5.0	4.4	3.5	3.3	3.2
31	3.4	3.4	3.4	3.4	3.4	3.6	3.7	3.8	4.0	4.1	4.4	5.3	5.8	6.4	7.0	7.0	6.8	6.6	5.5	4.7	3.8	3.7	3.4	3.1
MEAN	2.5	2.3	2.3	2.3	2.2	2.1	2.1	2.0	2.2	3.0	3.6	4.1	4.4	4.9	5.2	5.4	5.1	4.7	4.1	3.6	3.3	3.2	3.0	2.8

