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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

SEPTEMBER / SEPTEMBRE

19 80

AT/A

WINNIPEG INT'L AIRPORT / A L'AEROPORT INTERN. WPG.

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 BASE 18.0°C	GROWING DE CROISSANCE BASE 5.0°C	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			%	%		mm	cm	mm	cm	km/h		km/h				
1	21.4	9.2	15.3	2.7	10.3	98	47	1	9.0		9.0		9.9	W	SSE22	7.1			
2	20.6	7.8	14.2	3.8	9.2	98	57		Tr.		Tr.		16.7	S	S 33	1.5			
3	21.8	12.6	17.2	0.8	12.2	94	68	1	17.6		17.6		16.4	SSW	S 30*	1.0			
4	19.9	11.4	15.7	2.3	10.7	96	61		1.0		1.0		29.3	WNW	NW 52	4.7			
5	23.0	8.3	15.7	2.3	10.7	90	39						12.3	W,WNW	NW 28	11.9			
6	28.2	11.9	20.1	-	15.1	77	40						12.6	S,SSE	SSE24	12.2			
7	33.3	13.2	23.3	-	18.3	90	32						16.4	S	S 33	11.7			
8	23.6	7.4	15.5	2.5	10.5	93	59	1	11.5		11.5		23.1	NNW	NNW43	1.5			
9	17.3	6.1	11.7	6.3	6.7	89	40						21.7	NW	NW 41	12.1			
10	26.0	9.7	17.9	0.1	12.9	75	26						18.8	W	W 30	12.2			
11	21.4	7.8	14.6	3.4	9.6	90	37						18.9	E	ENE30	7.5			
12	13.5	10.6	12.1	5.9	7.1	89	52		3.1		3.1		19.9	E	E 24*	0.0			
13	18.5	6.3	12.4	5.6	7.4	95	43						22.1	NE,NNE	NE 39	10.8			
14	18.7	4.8	11.8	6.2	6.8	91	48		Tr.		Tr.		11.9	S	S 26*	6.7			
15	18.0	5.7	11.9	6.1	6.9	94	43		1.0		1.0		37.0	W	W 48*	2.5			
16	10.7	2.3	6.5	11.5	1.5	89	46		1.2		1.2		23.3	NW,WNW	WNW43	7.6			
17	4.7	0.2	2.5	15.5	-	93	60		5.8		5.8		22.1	ENE	ENE37*	0.0			
18	11.0	-4.2	3.4	14.6	-	92	43						5.6	N	SE 15	10.2			
19	7.0	2.6	4.8	13.2	-	95	59		16.1		16.1		20.1	SE	SE 30*	0.0			
20	10.4	3.5	7.0	11.0	2.0	94	66		Tr.		Tr.		15.5	S,SSE	S 30	2.4			
21	13.0	8.1	10.6	7.4	5.6	98	88		15.0		15.0		16.6	S	S 31	0.0			
22	10.0	0.1	5.0	13.0	-	98	62		1.0		1.0		22.8	W,WNW	NW 41	3.1			
23	7.9	0.6	3.7	14.3	-	97	75		0.4		0.4		18.4	S	S 31	0.0			
24	8.3	1.2	4.8	13.2	-	97	70		0.2		0.2		19.0	N	NNE28	0.5			
25	7.3	0.6	3.4	14.6	-	94	49						11.9	N,NNE	NNE19	7.6			
26	14.5	0.4	7.1	10.9	2.1	93	51						20.7	S	NNW35*	7.6			
27	12.1	2.0	5.1	12.9	0.1	98	52						7.6	SE	SE 15*	7.5			
28	20.9	6.2	13.6	4.4	8.6	86	51						24.3	S	S 41	10.0			
29	19.2	7.1	13.2	4.8	8.2	98	49		0.8		0.8		17.4	N	ENE31	9.1			
30	25.2	9.0	17.1	0.9	12.1	95	33		1.9		1.9		26.1	SSE	WSW39	2.7			
31																			
MEAN MOYENNE	16.9	5.5	11.2	TOTAL 210.2	TOTAL 194.6	93	52	TOTAL 3	TOTAL 85.6	TOTAL 0.3	TOTAL 85.6		18.6	PREVAILING DOMINANTE S	MAXIMUM NW 52	TOTAL 171.7			
NORMAL NORMALE	18.4	6.6	12.6	174.8	229.8	91*	49*	2.2	52.6	0.3	52.5		18.8	S	55	182.6			
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS										DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÔTE DE NEIGE: TOTALES: 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	210.2	158.0	174.8	TOTAL FOR MONTH TOTAL DU MOIS	194.6	239.7	229.8	15	12	7	4	0	0	0	0	0	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{ER} JUILLET	267.7	240.3	233.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{ER} AVRIL	1867.8	1537.4	1692.2												

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

CLIMATOLOGICAL SUMMARY FOR SEPTEMBER 1980 AT WINNIPEG, MANITOBA

The month was cool and on the wet side. The mean temperature of 11.2 was 1.4 degrees below the normal. The highest temperature was 33.3 on the 7th while the coldest was minus 4.2 on the 18th. There were 6 days with frost, twice the normal for the month. Precipitation was 33 mm above the normal of 52.6. 171.7 hours of sunshine was slightly below the normal while the mean wind speed of 18.6 Km/h was close to the normal 18.8.

DAILY WEATHER SUMMARY FOR SEPTEMBER 1980 AT WINNIPEG, MANITOBA

All Times Central Standard
Not Daylight

1. Partly cloudy. Temperatures slightly below normal. Light winds. Fog 7:09 - 7:23 a.m. CST. Showers 4:33 p.m. to 10:15 p.m. and thunder 7:02 p.m. to 9:55 p.m. Visibilities restricted in morning.
2. Clouding over in the early morning. Slightly below normal temperatures. Showers 7:52 p.m. to 8:49 p.m. Mostly light winds.
3. Slightly above normal temperatures. Cloudy with showers 6:43 to 11:47 a.m. CST, 4:26 p.m. to 10:17 p.m. Thunder 4:26 p.m. to 4:44 p.m. Mostly light winds. Niverville reported 16 mm rain in 45 minutes. 12:20 p.m. CST streets, fields, flooded. At Morden 4" tree branches scattered at 7:00 p.m. CST.
4. Normal temperatures. Cloudy with showers 4:00 to 6:43 a.m., 2:45 p.m. to 4:12 p.m. Moderate WNW winds gusting to WNW 72 Km/h. Clearing in the evening. Light fog in morning. Visibility restricted.
5. Sunny skies. Light winds and temperatures near normal.
6. Sunny. Light winds and temperatures climbing above normal.
7. Sunny. Light winds becoming brisk southerly in the afternoon. Temperatures well above normal values.
8. Above normal temperatures. Clouding over early in the morning. Thunder 4:37 a.m. to 9:47 a.m. Showers 6:09 a.m. to 10:24 a.m. Moderate winds gusting to 63 Km/h. Light fog in morning. Visibility restricted.
9. Below normal temperatures. Sunny. Moderate NW winds gusting to 57 Km/h.
10. Mostly light winds but W gusts to 56 Km/h in afternoon. Sunny. Above normal temperatures.
11. Above normal temperatures. Partly cloudy. Mostly light winds.
12. Near normal temperatures. Cloudy. Rain or light showers 3:02 a.m. to 9:37 p.m.
13. Below normal temperatures. Sunny. Moderate NE winds gusting to 48 Km/h.
14. Sunny becoming cloudy. Temperatures slightly below normal and mostly light south winds. Showers 11:45 p.m. continued.
15. Cloudy, near normal temperatures. Moderate winds gusting to 81 Km/h. Showers or drizzle to 11:20 a.m. Showers 8:00 p.m. continued.
16. Partly cloudy. Showers to 00:10 a.m., 7:28 a.m. to 10:27 a.m. Below normal temperatures. Moderate WNW winds gusting to 61 Km/h.
17. Cloudy. Rain 4:20 a.m. to 5:15 p.m. Temperatures below normal. Record low maximum temperatures. Moderate winds gusting to 50 Km/h.
18. Cool. Mostly sunny. Light winds. Record breaking low temperature.
19. Below normal temperatures. Cloudy. Rain 3:17 a.m. to 5:12 p.m. Light fog morning and afternoon. Drizzle 5:12 p.m. to 5:16 p.m. Moderate E winds. Record low maximum temperature.
20. Below normal temperature. Mostly cloudy. Drizzle 0:15 a.m. to 1:10 a.m. Mostly light winds but S gusts to 48 Km/h.
21. Near normal temperatures. Cloudy. Showers 8:45 a.m. to 11:52 p.m. Light fog morning and afternoon. Visibility restricted. Mostly light winds.
22. Below normal temperatures. Mostly cloudy. Moderate NNW winds gusting to 65 Km/h. Drizzle 6:45 a.m. to 8:45 a.m. Showers 1:30 p.m. to 4:15 p.m.
23. Cool. Cloudy. Showers 10:20 to 12:15 p.m. Very light rain 4:47 p.m. to 9:23 p.m. Mostly light winds but S gusts to 44 Km/h.
24. Cool. Cloudy. Drizzle 10:18 a.m. to 10:35 a.m. Light rain 7:11 p.m. to 9:16 p.m. Mostly light winds.
25. Cool. Cloudy clearing early afternoon. Mostly light winds.
26. Below normal temperatures. Cloudy clearing late morning. Moderate winds gusting to 52 Km/h.
27. Below normal temperatures. Sunny becoming cloudy early afternoon. Light winds.
28. Above normal temperatures. Mostly sunny. Moderate S winds gusting to 56 Km/h.
29. Above normal temperatures. Cloudy clearing late morning. Showers 5:36 a.m. to 7:42 a.m. Mostly light winds.
30. Above normal temperatures. Mostly cloudy. Showers 2:09 p.m. to 8:20 p.m. Moderate winds gusting to 72 Km/h.

1 HOURLY WETBULB TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1980 PAGE 5

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	11.7	11.2	11.0	10.8	10.3	9.5	9.1	9.0	10.9	12.4	13.7	13.5	13.5	14.0	14.0	13.9	14.1	14.0	13.4	12.3	13.1	12.3	12.3	12.0
2	11.2	10.0	10.2	10.1	8.5	8.0	8.5	10.0	10.3	11.7	13.1	15.3	15.3	15.4	14.5	14.6	14.8	14.9	15.3	15.1	14.8	14.6	14.5	14.3
3	14.3	14.3	14.3	14.1	14.1	13.9	13.8	13.9	14.7	15.4	16.2	17.2	16.8	17.7	18.3	17.9	17.4	17.1	16.5	16.4	15.1	12.5	12.2	12.0
4	11.7	11.8	11.9	11.4	11.1	11.6	12.0	13.3	14.0	13.6	13.3	14.1	13.3	13.9	14.6	14.3	14.5	14.0	13.5	12.6	12.5	11.7	10.6	10.1
5	10.1	10.0	9.6	9.0	8.7	8.8	8.0	9.5	11.2	12.9	14.3	14.4	14.4	15.2	14.8	14.6	14.0	14.2	14.7	14.3	12.2	11.5	11.0	10.4
6	10.3	10.5	10.6	10.7	10.6	10.2	10.0	10.7	11.8	13.0	14.3	15.7	16.7	17.6	18.6	17.8	17.8	18.7	17.5	16.7	16.2	16.2	15.8	14.9
7	14.8	14.4	15.3	14.8	13.7	12.9	12.4	12.7	14.7	16.6	18.6	20.1	19.9	21.7	20.7	20.1	20.8	20.0	20.3	19.1	18.4	17.4	17.0	16.9
8	17.4	17.3	18.0	18.0	19.1	19.4	20.1	19.0	19.0	18.7	18.0	18.5	18.0	14.8	13.0	12.7	11.2	9.8	10.3	9.0	8.2	7.7	7.6	7.7
9	7.4	7.7	6.6	5.9	5.3	5.8	5.2	5.6	7.0	8.9	9.8	9.5	9.2	9.5	9.5	10.0	10.6	10.5	10.6	9.7	9.2	8.5	8.5	8.1
10	8.0	7.9	8.0	7.8	7.2	7.3	7.3	7.4	9.0	10.9	12.7	13.0	13.4	13.5	14.2	14.1	14.2	14.2	15.0	13.2	12.3	11.6	11.1	10.5
11	10.2	8.4	8.1	8.5	8.5	8.7	9.8	9.9	10.9	12.0	11.7	12.0	12.0	12.0	12.3	12.4	12.2	11.8	11.7	11.3	11.1	10.3	9.7	9.1
12	9.7	8.4	8.2	8.1	8.1	8.1	8.2	8.5	9.0	9.8	10.0	10.3	10.9	10.8	11.0	10.8	10.8	10.7	10.7	11.0	10.3	10.2	9.8	9.5
13	9.4	8.6	7.8	8.0	7.2	6.8	6.2	6.7	8.3	9.4	10.4	11.0	11.1	11.6	11.6	11.4	11.2	11.4	10.6	9.7	9.0	8.2	6.7	6.5
14	5.6	4.6	4.6	4.8	4.4	6.0	6.2	6.7	8.3	10.2	11.0	11.0	11.8	12.0	11.8	12.5	12.2	12.4	12.0	11.0	10.0	10.6	10.6	11.0
15	11.3	11.6	12.0	12.3	12.3	11.8	11.7	11.8	12.0	12.3	12.6	13.5	11.8	11.3	11.5	10.2	9.1	8.0	7.4	7.0	6.6	5.3	4.8	5.4
16	5.2	5.0	4.0	3.5	2.8	3.3	3.7	4.7	4.7	5.4	5.3	5.1	4.9	5.1	4.5	5.0	4.4	4.0	3.4	3.6	3.2	2.3	1.6	1.8
17	1.4	1.5	1.5	1.8	1.7	1.6	2.1	2.1	2.4	2.8	3.2	3.4	3.5	3.9	4.0	3.8	3.4	3.1	2.9	2.7	3.0	3.3	2.7	1.3
18	-3	-1.2	-2.2	-2.2	-3.5	-3.8	-4.3	-2.5	-4	1.8	2.9	3.2	3.5	3.1	3.9	5.0	4.6	4.5	4.1	3.7	2.6	1.5	1.9	1.5
19	1.7	2.0	2.1	2.2	2.7	3.8	4.4	4.8	4.9	4.9	5.5	5.6	5.8	5.3	6.4	6.2	5.7	5.3	5.0	4.4	3.7	2.3	3.6	3.5
20	3.5	3.5	3.8	4.0	4.1	3.3	3.0	3.0	2.9	3.4	3.9	4.4	5.2	5.9	6.9	7.0	7.3	7.8	8.0	7.7	7.0	7.5	7.1	7.6
21	7.5	7.8	8.0	8.0	7.8	8.0	8.2	8.4	9.3	10.5	11.3	11.5	12.3	12.3	11.5	11.6	11.2	10.8	10.6	10.6	10.1	9.6	10.0	9.5
22	9.6	8.6	8.0	7.0	6.4	5.7	4.8	5.0	5.2	5.7	5.8	5.8	5.5	5.5	6.0	6.0	5.7	5.4	4.6	3.2	2.5	1.2	1.2	1.7
23	0.0	-5	0.0	5	5	-2	1	1.3	2.5	3.6	4.3	4.5	4.5	5.0	5.3	5.8	5.5	6.0	5.9	6.0	6.2	6.5	6.3	6.2
24	6.0	6.2	6.1	5.8	5.1	5.0	4.0	5.0	5.3	5.8	5.8	5.7	6.0	6.0	5.7	5.3	4.9	4.8	4.5	4.4	4.0	4.1	2.9	2.7
25	9	2.2	1.5	1.2	1.2	-4	-1.5	-1.8	1.5	1.9	1.5	3.0	2.8	3.2	3.0	3.1	3.1	2.4	2.1	1.6	1.1	1.2	-1.2	-1.5
26	-1.1	-1.2	-2	1.1	1.1	1.5	1.9	2.3	3.0	3.7	5.1	7.0	8.8	9.0	9.0	7.6	7.2	5.8	5.1	3.3	1.9	1.2	1.1	1.3
27	-6	-4	-1.8	-2.0	-1.1	-1.0	-1.7	-1.7	-1	4.3	5.6	5.7	6.2	6.8	7.0	6.8	7.1	7.1	6.9	5.5	4.9	4.0	4.2	4.5
28	4.1	3.8	4.0	4.1	4.2	4.3	4.2	4.5	5.0	6.5	8.1	9.9	10.8	12.1	13.3	14.5	14.7	15.3	15.5	15.3	14.2	14.9	13.8	13.2
29	13.0	12.4	11.9	11.2	10.1	9.2	10.9	11.0	11.0	12.1	12.8	12.6	12.6	12.0	12.9	13.2	14.5	11.6	9.0	8.2	7.5	7.0	7.0	8.4
30	8.5	8.6	8.4	8.7	8.5	9.1	9.8	10.9	11.6	11.5	12.8	13.8	14.4	15.0	14.2	13.8	13.8	13.5	12.6	12.2	12.0	11.7	10.8	10.0

MEAN 7.4 7.2 7.1 6.9 6.7 6.6 6.7 7.1 8.0 9.0 9.8 10.4 10.5 10.7 10.8 10.7 10.5 10.3 10.0 9.3 8.7 8.2 7.8 7.6

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
ENE	6	13	15	15	17	17	15	15	15	15	15	15	15	15	ENE
E	22	6	4	4	2	2	2	2	2	2	2	2	2	2	50
ESE	24	9	17	17	15	15	15	15	13	13	13	13	13	13	
ESE E	28	26	28	28	24	24	24	24	20	20	20	20	20	20	
ESE SE	28	22	24	24	22	22	22	22	19	19	19	19	19	19	
ESE SE E	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
ESE SE E E	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
ESE SE E SE	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
ENE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14 CST
E	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
ENE	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
ENE NE	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
ENE NE NE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
ENE SE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
ENE SE SE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
ENE SE SE SE	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
ENE SE SE SE SE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
ENE SE SE SE SE SE	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
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