



MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

SEPTEMBER/SEPTEMBRE

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 LUIE (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	14.3	7.4	10.9	7.1	5.9	93	79	1	7.0	7.0		11.6	W	NW 33	1.6				
2	19.9	8.5	14.2	3.8	9.2	95	38					23.2	WNW	WNW 46*	11.1				
3	25.8	5.2	15.5	2.5	10.5	100	33					12.1	S	S 24	10.6				
4	23.8	8.8	16.3	1.7	11.3	83	37					21.3	S	NE 35	9.6				
5	16.8	4.6	10.7	7.3	5.7	88	44		Tr.	Tr.		15.6	NE	NE 26*	9.4				
6	14.7	3.8	9.3	8.7	4.3	91	62		4.0	4.0		19.6	SE	SSE 37*	1.6				
7	24.1	9.8	17.0	1.0	12.0	88	54	1	0.2	0.2		25.8	S	SSE 37	9.0				
8	29.6	16.9	23.3	0.0	18.3	87	37					14.3	SE	S 26*	11.2				
9	34.5	16.9	25.7	0.0	20.7	92	25					18.2	S	S 28	10.9				
10	31.0	17.2	24.1	0.0	19.1	91	48					21.3	S	SE 31	11.2				
11	23.0	8.7	15.9	2.1	10.9	82	34		Tr.	Tr.		23.5	WNW	NW 61	2.1				
12	18.5	5.6	12.1	5.9	7.1	87	36					6.6	S Calm	SE 20	0.3				
13	17.2	6.8	12.0	6.0	7.0	90	49					20.1	N	NNE 37*	6.1				
14	11.3	-0.2	5.6	12.4	0.6	79	46					20.9	NNE	NE 30	10.7				
15	14.2	-3.3	5.5	12.5	0.5	89	27					7.7	S	S 20	11.3				
16	20.0	1.8	10.9	7.1	5.9	88	39		Tr.	Tr.		20.2	S	S 35	8.0				
17	13.1	4.9	9.0	9.0	4.0	94	50		Tr.	Tr.		16.5	WNW	NW 30*	2.2				
18	22.6	6.6	14.6	3.4	9.6	89	28		4.7	4.7		23.8	WNW	N 41	9.3				
19	13.0	1.2	7.1	10.9	2.1	90	41		0.2	0.2		27.3	WNW	NNW 44	3.5				
20	16.1	0.0	8.1	9.9	3.1	96	44					10.7	WNW	NW 26	5.7				
21	22.7	3.0	12.9	5.1	7.9	78	25					16.7	S	SSW 22*	11.5				
22	24.8	7.3	16.1	1.9	11.1	90	36	1	3.0	3.0		25.8	S	S 44	7.5				
23	16.3	6.5	11.4	6.6	6.4	98	56	1	1.0	1.0		21.6	NNW	NNW 33*	3.5				
24	15.2	0.3	7.8	10.2	2.8	97	44					9.8	NW	N 22	9.8				
25	17.0	1.5	9.3	8.7	4.3	84	37		Tr.	Tr.		28.3	S	S 48	6.7				
26	16.3	7.7	12.0	6.0	7.0	80	51					23.3	N	S 35	3.4				
27	8.2	4.5	6.4	11.6	1.4	97	72		22.6	22.6		29.5	NE	NE 39	0.0				
28	14.8	4.5	9.7	8.3	4.7	98	85	1	15.5	15.5		33.2	E	E 43	0.0				
29	11.5	4.6	8.1	9.9	3.1	94	55					25.8	SW	SSW 35*	7.9				
30	8.0	0.0	4.0	14.0	0.0	93	54					19.8	WNW	WSW 28*	5.4				
31																			
MEAN MOYENNE	18.6	5.7	12.2	TOTAL 193.6	TOTAL 216.5	90	46	TOTAL 5	TOTAL 58.2	TOTAL 58.2		19.8	PREVAILING DOMINANTE S	MAXIMUM NW 61	TOTAL 201.1				
NORMAL NORMALE	18.4	6.3	12.4	178.1	223.8	91*	49*	2.2	53.0	0.2	53.3	18.5	S	56	184.6				
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS										DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÛTE 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	193.6	172.9	178.1	TOTAL FOR MONTH TOTAL DU MOIS	216.5	228.8	223.8	9	7	6	2	0							
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	275.6	199.8	242.5	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1639.0	1736.0	1697.4												

CLIMATOLOGICAL SUMMARY FOR SEPTEMBER 1982

AT WINNIPEG, MANITOBA

September 9th with a temperature of 34.5 turned out to be the warmest day of 1982. The lowest temperature was minus 3.3 on the 15th, while the mean of 12.2 was near the normal of 12.4. Total precipitation was slightly above normal with 38.1 mm of the total 58.2 mm falling on the 27th and 28th. Sunshine was above normal as was the average wind for the month.

DAILY WEATHER SUMMARY FOR SEPTEMBER 1982

AT WINNIPEG, MANITOBA

All Times Central Standard Not Daylight

1. Cool. Mostly cloudy. Thunder 7:22 P.M. to 8:17 P.M. Rain 7:50 A.M. to 9:50 A.M. 1:50 P.M. to 4:20 P.M. Showers 9:50 A.M. to 10:15 A.M. 7:32 P.M. to 8:20 P.M. Light fog in the afternoon. Visibility restricted. Showers heavy in the evening. Mostly light winds but NW gust to 63Km/h in the evening.
2. Below normal temperature. Mostly sunny. Moderate winds with NW gust to 67Km/h in the afternoon.
3. Near normal temperature. Mostly sunny. Heavy fog 4:36 A.M. to 5:57 A.M. Thick fog till 7: A.M. Mostly light winds but S gust to 35Km/h in evening.
4. Slightly above normal temperature. Partly cloudy. Moderate winds with NNE gust to 50Km/h late afternoon.
5. Cool. Partly cloudy. Showers 03:10 A.M. to 04:10 A.M. Light winds but NNE gust to 39Km/h in morning.
6. Cool. Mostly cloudy. Showers 9:05 A.M. to 3:12 P.M. Rain 3:12 P.M. to 4:42 P.M. Showers 6:25 P.M. to 6:45 P.M. Mostly light winds but SSE gust to 59Km/h late evening.
7. Warm. Partly cloudy. Thunder 11:12 P.M. to 11:17 P.M. Showers 11:12 P.M. to 11:17 P.M. Moderate winds with S gust to 56Km/h late evening.
8. Warm. Sunny. Light winds but S gust to 46 Km/h in the evening. Lightning in the morning.
9. Warm. Mostly sunny. Unofficial reports of thunder and hail in St. Vital in the evening. Haze in the morning. Mostly light winds but SSE gust to 44 Km/h in the evening.
10. Warm. Record high maximum temperature and record high morning minimum temperature. Sunny. Moderate winds with SE gust to 43 Km/h late afternoon. Haze aloft.
11. Above normal temperature. Mostly cloudy. Showers 5:14 A.M. to 5:44 A.M. Rain 8:10 A.M. to 9:02 A.M. Moderate winds with WNW gust to 87 Km/h in the morning.
12. Slightly below normal temperature. Cloudy. Haze in the morning. Mostly light winds but SE gust to 33 Km/h in late afternoon.
13. Slightly below normal temperature. Partly cloudy. Moderate winds with NNE gust to 50 Km/h in the afternoon.
14. Cool. Mostly sunny. Moderate winds with NE gust to 46 Km/h in the morning.
15. Cool. Mostly sunny. Light winds. Light fog in the morning. Smoke aloft in the evening.
16. Below normal temperature. Partly cloudy. Showers 6:23 P.M. to 6:35 P.M. Rain 10:20 P.M. to 11:20 P.M. Moderate winds with S gust to 57 Km/h in the afternoon. Smoke aloft in the evening.
17. Cool. Mostly cloudy. Rain 10:12 A.M. to 10:34 A.M. Mostly light winds but NNW gust to 43 Km/h in the afternoon. Smoke over the city late evening.
18. Above normal temperature. Partly cloudy. Showers 12:54 P.M. to 1:03 P.M. 7:07 P.M. to 8:22 P.M. Hail 7:21 P.M. to 7:24 P.M. Moderate winds with N gust to 78 Km/h in evening. Smoke over city in the morning.
19. Cool. Mostly cloudy. Rain or drizzle 6:56 A.M. to 12:30 P.M. Light fog in the morning. Moderate winds with NNW gust to 57 Km/h in the morning.
20. Cool. Partly cloudy. Mostly light winds but N gust to 33 Km/h in the morning.
21. Slightly above normal temperature. Sunny. Mostly light winds but S gust to 35 Km/h in the afternoon. Smoke aloft morning and evening.
22. Warm. Partly cloudy. Thunder 3:56 P.M. to 7:00 P.M. 9:34 P.M. to 10:17 P.M. Showers 4:02 P.M. to 8:51 P.M. Moderate winds with S gust to 63 Km/h in afternoon. Lightning hit several houses. Numerous power outages. Aurora. Hail at Starbuck.
23. Slightly above normal temperature. Mostly cloudy. Thunder 3:34 A.M. to 5:40 A.M. Showers 6:10 A.M. to 9:08 A.M. Light fog in the morning. Moderate winds with N gust to 52 Km/h in the afternoon. Spectacular aurora.
24. Cool. Partly cloudy. Light winds. Smoke aloft in the evening.
25. Normal temperature. Partly cloudy. Showers 6:08 P.M. to 7:20 P.M. Visibility restricted in smoke 01:15 A.M. to 02:40 A.M. Moderate winds with S gust to 61 Km/h in the afternoon.
26. Above normal temperature. Mostly cloudy. Moderate winds with S gust to 46 Km/h in the early morning.
27. Below normal temperature. Cloudy. Drizzle 4:21 A.M. to 9:40 A.M. Rain 3:38 A.M. to 6:15 A.M. 12:50 P.M. continues. Fog in afternoon and early evening. Moderate winds with FNE gust to 50 Km/h in the evening.
28. Slightly above normal temperature. Cloudy. Thunder 8:10 P.M. to 9:08 P.M. Rain to 6:47 A.M. 8:40 A.M. to 7:10 P.M. Drizzle 8:42 A.M. to 6:40 P.M. Showers 7:10 P.M. to 8:45 P.M. Moderate winds with E gust to 63 Km/h in the morning. Light fog in afternoon and evening. Showers heavy in the evening.
29. Below normal temperature. Partly cloudy. Moderate winds with SSW gust to 57 Km/h in the morning.
30. Cool. Partly cloudy. Mostly light winds but W gust to 43 Km/h in the 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.	9.5	9.0	8.0	7.2	7.0	6.8	7.0	7.2	8.5	9.0	9.3	10.6	10.8	10.8	10.8	11.0	11.8	11.9	12.0	11.0	12.0	11.0	11.0	11.0	10.6
2.	10.2	9.8	9.2	9.4	9.0	9.2	9.5	10.7	12.0	12.8	13.0	12.1	12.7	13.0	12.1	12.0	11.7	12.0	11.1	10.9	9.4	8.8	8.2	8.0	8.0
3.	8.0	7.3	5.7	5.0	5.5	6.4	6.0	7.9	11.4	12.2	12.5	13.9	14.1	14.0	14.9	15.3	15.7	15.4	15.8	15.3	14.5	14.0	13.7	13.4	7.4
4.	13.0	12.4	12.0	11.8	11.8	11.3	11.0	11.8	12.8	14.3	15.7	16.5	15.7	15.2	15.2	13.6	13.2	13.1	12.6	11.4	10.0	9.2	8.2	7.4	5.8
5.	7.5	8.0	8.7	8.7	7.7	7.7	7.0	7.2	7.7	7.9	7.8	7.7	8.4	9.0	9.7	10.0	10.2	10.0	9.3	8.7	8.4	6.0	5.2	5.8	
6.	3.8	3.3	5.0	5.0	5.0	5.4	5.3	6.0	7.0	7.4	8.2	9.3	9.5	10.5	11.0	11.4	12.1	12.1	11.7	11.2	10.6	10.7	10.2	10.3	10.3
7.	10.2	10.0	9.8	9.8	9.3	9.0	8.8	9.0	9.7	10.8	12.4	14.1	14.8	16.0	16.9	18.5	18.7	18.0	18.0	17.7	17.8	17.5	17.4	17.2	17.2
8.	17.4	17.2	17.2	17.0	16.6	15.8	15.7	15.5	16.9	17.9	18.0	18.2	17.7	17.7	18.3	18.5	20.5	20.4	20.0	19.6	19.5	19.5	19.5	19.0	19.0
9.	18.8	18.0	17.3	17.5	17.0	16.6	16.0	16.4	17.6	18.5	19.2	19.8	20.8	20.8	20.5	20.0	18.9	19.6	22.4	21.0	20.8	20.5	20.2	19.7	19.5
10	19.5	19.0	18.5	18.2	18.0	17.4	16.5	16.8	17.9	18.9	19.4	20.3	21.0	21.5	22.0	22.0	22.1	21.9	21.4	21.0	20.5	20.4	19.8	19.5	
11	19.2	18.3	19.5	19.3	15.0	14.0	14.0	13.9	13.9	13.4	13.6	13.1	13.5	12.0	11.0	10.9	10.9	11.1	10.9	10.1	8.7	7.3	6.9	6.3	
12	6.2	5.5	5.5	5.7	5.4	4.8	4.4	5.6	8.2	9.8	10.0	10.2	10.7	11.0	10.9	10.4	11.6	10.3	9.0	8.3	9.4	9.2	8.0	8.0	
13	7.6	7.4	6.0	6.3	6.6	6.5	6.0	6.7	8.8	10.0	10.8	10.5	11.0	10.7	11.5	10.7	10.7	10.2	9.6	8.5	7.4	6.5	6.2	6.1	
14	6.2	5.7	5.5	4.5	4.0	3.3	2.9	1.7	2.5	3.0	3.3	4.2	4.8	4.7	5.7	5.8	6.0	5.6	5.2	3.1	1.3	0.5	0.0	-0.3	
15	-1.4	-1.8	-1.6	-1.6	-2.3	-2.2	-2.0	-3.2	0.0	-3.8	4.8	4.5	5.2	5.5	6.4	6.7	6.0	6.2	5.2	4.1	2.9	2.4	1.8	1.4	
16	1.9	1.5	1.2	1.0	1.0	0.7	0.0	1.4	3.4	5.6	8.5	10.4	11.5	11.3	11.5	10.7	10.6	10.8	10.7	10.1	9.8	9.2	9.0	8.9	
17	9.0	8.9	8.9	8.1	6.0	5.2	6.2	6.5	8.0	8.9	8.8	8.5	7.3	7.4	7.5	7.8	7.9	7.9	7.0	5.2	3.3	4.2	4.1	4.7	
18	4.8	5.4	5.4	5.7	6.1	6.1	6.0	6.0	7.1	9.5	11.0	11.9	11.6	11.8	13.4	13.9	13.0	11.3	9.6	8.4	8.9	8.3	7.8	6.0	
19	6.4	6.7	6.1	6.5	7.0	6.7	6.1	6.0	6.0	6.1	6.6	6.7	6.7	6.8	6.8	6.7	6.8	6.3	5.6	3.3	3.5	1.7	1.0	1.0	
20	0.2	0.9	0.6	0.7	0.4	0.2	2.4	4.2	5.2	7.2	9.0	8.7	8.5	9.0	9.1	9.6	9.4	9.3	9.2	7.2	6.0	6.3	5.7	5.5	
21	4.6	4.0	4.0	3.2	2.5	2.0	1.7	2.2	4.1	7.2	8.8	10.0	11.3	11.5	11.9	11.5	11.4	11.4	10.7	9.0	8.4	7.8	7.4	6.9	
22	6.6	6.3	6.0	5.9	5.8	5.6	5.9	6.0	7.5	8.4	9.4	11.3	13.0	14.3	14.4	15.2	14.5	14.4	15.0	15.0	14.5	14.1	14.8	12.8	
23	12.0	11.0	9.3	9.5	11.8	11.4	11.2	12.3	12.1	13.0	11.8	10.7	10.8	10.2	10.0	10.5	12.2	10.2	9.2	7.5	7.0	6.3	6.9	6.7	
24	5.5	4.0	3.3	2.5	1.9	0.9	0.2	0.5	4.5	6.9	7.6	8.0	8.0	8.0	8.0	9.0	8.8	8.8	8.0	6.4	5.2	4.9	4.5	3.5	
25	3.0	1.9	1.9	1.0	1.5	0.9	1.5	2.3	3.8	5.3	6.5	9.0	9.5	11.7	12.4	14.0	13.7	8.5	8.7	8.2	7.9	7.8	7.7	7.8	
26	7.8	7.8	7.7	7.7	7.1	6.2	6.8	6.4	8.0	10.0	11.0	11.5	11.2	10.8	10.8	10.8	10.7	10.0	9.0	7.7	7.6	7.0	6.2	6.3	
27	6.3	5.4	5.7	5.7	5.9	5.7	5.7	5.2	5.1	4.9	5.0	5.0	5.0	5.3	5.9	5.5	5.1	4.9	4.5	4.5	4.3	4.6	4.8	5.3	
28	5.0	5.4	6.0	6.4	6.8	7.2	7.8	8.3	8.8	9.1	9.7	10.0	10.2	10.5	10.8	11.1	11.4	11.8	12.4	12.8	13.0	13.5	11.0	9.7	
29	7.8	7.6	6.7	5.7	5.2	4.8	3.3	3.6	3.6	4.2	4.7	5.5	5.6	6.0	6.3	6.6	6.1	5.4	5.0	5.0	4.5	4.4	4.2	4.0	
30	3.9	3.3	3.4	2.8	2.2	1.8	1.4	0.8	2.0	2.5	3.0	3.2	3.5	3.8	3.5	3.7	4.2	3.8	3.2	2.6	2.0	1.3	0.1	-1.1	

MEAN	8.0	7.6	7.4	7.2	6.9	6.6	6.5	6.8	8.1	9.0	10.0	10.5	10.8	11.0	11.3	11.2	11.5	11.1	10.7	9.8	9.3	8.8	8.4	8.0	
MEAN	9.7	10.7	11.6	12.5	8.1	8.4	13.8	17.7	19.1	19.7	12.8	8.3	8.3	8.4	3.7	1.8	6.7								

MEAN DAILY WETBULB BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MEAN	7.0	8.7	5.5	5.6	7.2	10.7	10.2	5.4	6.5	8.6	5.2	9.5	5.3	2.6

