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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

SEPTEMBER

1983

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: 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 HEURES 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 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	km/h				
1	32.2	19.0	25.6		20.6	73	32		TR.		TR.		12.2	WNW	S 26*	11.7			
2	38.8	20.1	29.5		24.5	69	31		TR.		TR.		22.0	SE	W 37	7.2			
3	27.2	16.4	21.8		16.8	58	30						21.8	WSW	WSW35*	11.3			
4	27.3	10.9	19.1		14.1	82	31						10.1	W	WNW17*	11.1			
5	20.4	10.0	15.2	2.8	10.2	88	64	1	1.8		1.8		11.7	S	W 22*	0.4			
6	16.9	9.9	13.4	4.6	8.4	95	65		0.4		0.4		19.6	WSW	NNW33	1.4			
7	24.0	6.8	15.4	2.6	10.4	97	47						17.2	SSE	SSE33*	11.1			
8	18.7	8.9	13.8	4.2	8.8	95	70		10.2		10.2		11.4	N	NNE24*	0.0			
9	20.2	5.1	12.7	5.3	7.7	95	64		0.2		0.2		9.2	N	SW 17*	2.9			
10	16.8	9.1	13.0	5.0	8.0	89	56						27.4	W	WSW52	4.9			
11	15.4	5.3	10.4	7.6	5.4	92	58		1.4		1.4		8.3	W	N 22	4.2			
12	17.6	2.0	9.8	8.2	4.8	94	40		TR.		TR.		9.7	WNW	NW 17*	9.2			
13	16.3	3.8	10.1	7.9	5.1	94	57		3.0		3.0		6.6	W	N 20	5.8			
14	18.1	0.5	9.3	8.7	4.3	97	36		1.0		1.0		9.1	CALM	ESE22	8.9			
15	13.2	10.0	11.6	6.4	6.6	93	71		4.0		4.0		20.8	E	E 33*	0.0			
16	14.0	9.5	11.8	6.2	6.8	90	73		TR.		TR.		15.0	SE	SE 26	0.0			
17	17.0	9.3	13.2	4.8	8.2	91	50		TR.		TR.		26.3	SE	S 37*	0.0			
18	13.2	6.1	9.7	8.3	4.7	64	43						34.2	W	W 52	6.3			
19	10.1	2.9	6.5	11.5	1.5	89	51		0.2		0.2		18.1	W	W 30*	4.1			
20	8.9	3.0	6.0	12.0	1.0	94	66		0.8		0.8		23.3	W	W 37	0.6			
21	8.9	0.8	4.9	13.1		88	51		TR.		TR.		24.9	NW	WNW37*	5.1			
22	8.2	-1.2	3.5	14.5		89	53						15.8	WNW	WNW26	6.7			
23	18.9	-0.2	9.4	8.6	4.4	76	25						20.3	S	S 33	9.8			
24	23.3	6.2	14.8	3.2	9.8	71	28		TR.		TR.		16.1	S	NW 24*	8.2			
25	23.2	7.1	15.2	2.8	10.2	90	27		TR.		TR.		5.2	CALM	NW 17	9.9			
26	26.3	5.4	15.9	2.1	10.9	81	26						11.4	S	SSE24	10.7			
27	29.0	13.6	21.3		16.3	68	34	1	TR.		TR.		26.0	SSE	SSE41	4.8			
28	23.8	5.9	14.9	3.1	9.9	91	66	1	5.6		5.6		22.0	N	WNW37	1.6			
29	8.2	-0.3	4.0	14.0		91	53		0.2		0.2		13.1	N	N 20	3.7			
30	7.0	2.8	4.9	13.1		100	84		24.0	TR.	24.0		17.7	NNE	NNE24	0.0			
31																			
MEAN MOYENNE	18.8	7.0	12.9	TOTAL 180.6	TOTAL 239.4	86	49	TOTAL 3	TOTAL 52.8	TOTAL TR.	TOTAL 52.8		16.9	PREVAILING DOMINANTE W	MAXIMUM W 52	TOTAL 161.6			
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:					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	180.6	193.6	178.1	TOTAL FOR MONTH TOTAL DU MOIS	239.4	216.5	223.8	13	8	5	2								
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	198.4	275.6	242.5	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1840.2	1639.0	1697.4												

UOC 551.506.1 (

*) INDICATES MORE THAN ONE OCCURRENCE OF
THE SPEED BUT NOT NECESSARILY THE DIRECTION.
! ACTUAL SPEED IS 50 KMH GREATER THAN INDICATED.

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CLIMATOLOGICAL SUMMARY FOR SEPTEMBER 1983AT WINNIPEG, MANITOBA

The hottest day of 1983 was recorded on the 2nd, when the maximum temperature hit 38.8°C - establishing a new all time record maximum for any day in September. The previous record for September was 37.2°C set on September 1, 1929. The last time the temperature exceeded 38°C in Winnipeg was on August 8, 1949 with 39.4°C.

The mean temperature of 12.9°C was slightly above the normal of 12.4°C. Precipitation totalled 52.8 mm, just shy of the normal 53.3 mm. The heaviest daily precipitation amount of 24.0 mm was recorded on the 30th. The mean wind speed averaged 16.7 km/h compared to the normal 18.5 km/h. Bright sunshine hours were considerably below normal with a total of 161.6 hours compared to the normal 184.6 hours.

DAILY WEATHER SUMMARY FOR SEPTEMBER 1983AT WINNIPEG, MANITOBA

1. Very warm. Mostly sunny. Showers 02:40 AM to 03:07 AM. Mostly light winds but SW gust to 46 Km/h in morning. Lightning in morning.
2. Record breaking high temperature. Sunny becoming cloudy mid afternoon. Showers 6:29 PM to 7:12 PM. Moderate wind with S gust to 70 Km/h in afternoon.
3. Warm. Mostly sunny. Moderate winds with WSW gust to 59 Km/h in morning.
4. Warm. Mostly sunny. Mostly light winds but WSW gust to 31 Km/h in afternoon. Strong winds near Grand Rapids. Forest fires there are near Manitoba Ontario border.
5. Normal temperature. Cloudy. Thunder 11:59 AM to 12:14 PM. Showers 11:25 AM to 6:21 PM. Heavy smoke 4:22 AM to 9:55 AM. Smoke due to 43 forest fires this weekend on Manitoba Ontario border mostly. Water spout seen near Willow Point. Water spout and funnel cloud seen E of Gimli.
6. Below normal temperature. Cloudy, rain 2:50 PM to 4:10 PM. 6 huge fires burning this weekend. 70,000 acres destroyed. 400 people evacuated to Gimli from Grassy Narrows reserve. Cottages burned near Beresford Lake area. Airport at Little Grand Rapids closed due to smoke. Light fog at Winnipeg in afternoon. Visibility restricted.
7. Above normal temperature. Mostly sunny. Mostly light winds but SSW gust to 48 Km/h late evening. Light fog in morning. Visibility restricted.
8. Near normal temperature. Cloudy. Showers 9:41 AM to 6:45 PM. Rain 6:45 PM to 7:41 PM. Mostly light winds but NNE gust to 33 Km/h in morning. Patches ground fog in evening.
9. Below normal temperature. Mostly cloudy. Rain 11:22 AM to 12:35 PM. Mostly light winds but WSW gust to 35 Km/h late evening. Fires continue. 508 forest fires to date. 385 last year. 1065 in 1980. 31 still burning with 4 big ones at Beresford Lake area, Cot Lake, Beaver Lake, Pine Creek. However, evacuees returned home to Grassy Narrows.
10. Below normal temperature. Mostly cloudy. Moderate winds with W gust to 72 Km/h in morning.
11. Below normal temperature. Mostly cloudy. Showers 12:45 PM to 1:44 PM. Mostly light winds but NW gust to 35 Km/h in afternoon.
12. Cool. Partly cloudy. Showers 5:12 PM to 5:22 PM. Mostly light winds but N gust to 31 Km/h in afternoon.
More concern re pollution in Red River. Road block removed in Nopiming Provincial Park existed when fires hit E. Manitoba. 4 blazes still burning, largest - Beresford Lake - 72,000 acres. Hungry bears invade Kenora, berries shrivelled during heat.
13. Generally cloudy all day, light winds. A few afternoon sunny periods and morning showers 6:31 AM-8:29 AM and late afternoon showers 3:59 PM 4:31, 6:12 PM-6:32 PM.
14. Clear overnight then clouding over in the evening. Light winds. Temperatures normal maximum but cool minimum. Late evening showers 10:12 PM and continuing after midnight.
15. Cloudy, below normal temperatures and brisk winds. Rain continuing until 11:27 AM.
16. Cloudy, light southeast winds and below normal temperatures. Rain 12:54 PM-1:08 PM, 7:44 PM-7:53 PM, 8:24 PM-8:27 PM.
17. Cloudy, cool, brisk and gusty southerly winds. Rain from 11:40 AM-11:47 AM.
18. Cloudy with late afternoon clearing. Below normal temperatures continue with strong gusty westerly winds.
19. Brisk westerly winds, below normal temperatures and mostly cloudy. Rain 6:29 PM-9:08 PM, 11:30 PM and continuing.
20. Cloudy and rain throughout the day, brisk westerly winds and temperatures much below normal. Rain ending at 1:33 AM, Again 2:51 AM-6:36 AM; 7:44-8:04 AM; 9:17-1:52 PM; 2:11-2:18 PM, 2:27-5:35 PM; 6:24-6:39 PM.
21. Sunny most of the day, however clouding over in the late afternoon. Continuing cold with strong gusty northwest winds. Showers 5:46-6:15 PM.
22. Cloudy with late afternoon clearing. First frost on this date as minimum slipped to -1.2. Light to brisk westerly winds.
23. Sunny brisk southwesterly winds and above normal maximum temperatures.
24. Sunny with light southerlies. Maximum temperatures still above normal while minimum well below. Showers 7:43 PM-8:09 PM 10:51-11:04 PM and 11:49-11:56 PM.
25. Cloudy with overnight showers then sunny, light winds and above normal maximum, below normal minimum. Showers 12:28 AM - 1:07 AM; 3:29-3:47 AM 4:36-4:43 AM.
26. Sunny, southerly winds and daytime maximum well above normal.
27. Cloudy, above normal temperatures and gusty southerly winds. Thundershowers 4:18-4:51 PM; 5:48-6:12 PM; 10:10-10:25 PM, 11:38 PM and continuing beyond midnight.
28. Cloudy, gusty west north west winds and continuing cool overnight. Thunderstorm ended at 1:15 AM showers at 1:33 AM. Showers at 7:20 AM-7:53 AM.
29. Cloudy with early morning sunshine. Temperatures falling well below normal with northerly winds. First day of frost for September. Rain 3:29 -6:18 PM; 9:28-10:19 PM.
30. September ended under cloudy skies, rain, snow and cold temperatures with brisk northerly winds. Rain 12:25 AM, 5:41 AM; 1:35 - 7:40 PM; ice pellets (snow) 12:48 AM-1:23 AM.

HOURLY DEWPOINT TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1983
 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.	16.9	15.7	12.8	14.3	13.0	13.0	13.7	15.5	16.1	16.0	15.5	16.3	16.3	15.8	15.0	13.2	14.7	16.2	17.5	15.3	14.5	14.3	14.1	15.4
2.	15.7	14.6	13.9	13.0	12.6	11.9	11.8	13.2	15.8	20.2	20.8	20.8	21.0	23.4	17.6	17.5	17.6	16.2	12.1	12.6	11.7	11.6	11.4	9.4
3.	8.7	7.4	6.8	6.5	6.7	7.2	7.9	9.0	9.5	10.7	10.3	10.8	10.1	8.4	8.7	8.4	8.4	7.8	7.7	7.9	7.9	7.7	7.3	7.5
4.	8.3	8.1	8.2	8.1	8.4	8.2	8.1	9.2	9.9	9.5	10.8	10.3	9.2	9.0	9.7	8.6	9.4	9.0	8.2	9.1	9.0	9.0	7.9	9.1
5.	8.2	8.0	7.9	7.9	7.8	9.8	10.8	11.1	11.2	11.3	12.8	12.7	13.8	14.2	15.7	14.6	13.8	13.8	13.4	12.7	12.9	11.6	9.6	9.5
6.	8.6	7.4	7.9	6.3	5.7	5.6	5.3	5.9	6.5	7.6	7.7	8.6	9.0	10.1	10.3	12.6	13.0	12.2	11.7	11.4	11.4	11.4	10.0	9.5
7.	9.2	9.0	7.8	8.3	8.0	6.5	7.0	7.6	9.8	11.5	12.7	12.2	11.7	11.5	11.2	11.3	11.7	11.6	11.7	11.6	12.2	12.6	12.5	12.3
8.	12.4	12.3	12.3	12.3	12.0	12.4	12.0	12.4	13.8	14.7	13.8	14.7	13.1	13.8	13.6	11.8	11.8	12.6	12.4	12.2	11.2	10.3	9.3	9.2
9.	7.8	8.1	7.8	6.9	6.2	5.0	4.7	8.0	9.8	11.2	11.8	12.1	12.8	13.6	12.0	12.7	13.4	13.7	14.2	14.7	15.1	14.9	14.8	15.5
10	14.2	12.3	11.7	11.7	10.8	7.0	5.4	5.5	5.0	5.2	6.0	5.5	5.6	5.4	5.4	6.0	6.0	6.0	7.0	6.7	5.1	5.9	6.8	6.9
11	6.3	5.4	4.7	4.9	4.6	4.7	4.4	5.2	6.0	7.0	8.4	8.5	7.9	6.8	9.2	7.3	7.0	6.2	6.9	7.5	6.8	6.1	6.1	5.6
12	3.9	3.3	2.2	2.4	2.7	2.0	1.9	3.2	5.4	6.2	6.6	5.0	2.8	3.1	3.1	2.5	4.4	4.4	6.0	5.5	4.3	3.6	3.2	3.9
13	4.9	4.1	2.8	4.2	4.3	4.9	5.4	6.1	6.9	7.1	6.9	5.3	5.6	8.6	6.1	6.8	4.2	6.5	6.8	6.6	5.7	5.4	3.8	3.1
14	3.2	2.9	1.3	1.7	1.7	1.1	1.5	1.5	5.3	5.9	5.7	5.3	3.8	2.2	2.8	3.6	2.6	2.6	3.0	3.6	4.0	5.0	5.2	7.5
15	8.8	9.1	9.2	9.2	8.6	8.7	8.8	8.8	9.2	9.1	9.2	9.2	8.6	8.7	7.8	8.1	7.8	8.1	7.6	7.6	7.6	7.3	7.4	7.6
16	7.5	7.5	7.9	8.1	7.9	8.1	8.0	8.2	8.6	9.0	8.8	9.1	9.5	8.2	8.6	8.8	8.3	8.5	8.6	8.4	8.7	8.9	9.0	9.1
17	8.9	8.6	8.6	8.6	8.5	8.4	8.4	8.5	8.2	8.8	9.2	9.8	10.8	11.7	11.6	11.4	10.8	9.2	7.8	4.7	2.8	1.8	1.3	1.9
18	1.1	1.9	2.5	2.6	2.7	2.7	2.4	2.6	2.6	2.8	3.0	3.0	2.6	3.0	2.2	1.5	1.4	-2.0	0.0	-4.4	-3.3	-4.4	-7.7	-1.1
19	-1.5	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0	-1.2	-1.3	-1.0	-1.6	-2.4	-2.6	0.0	0.0	0.2	0.4	1.0	1.0	2.6	3.5	2.8	3.6	3.8
20	4.1	4.4	3.4	3.7	4.2	4.0	3.5	3.8	4.4	4.4	3.6	3.4	2.9	2.9	2.7	3.6	4.7	4.8	4.6	3.6	2.3	2.6	2.1	1.3
21	1.2	1.4	1.3	1.4	1.0	0.7	0.4	1.1	-1.4	-1.3	-2.0	-2.0	-2.2	-0.9	-7.7	-1.5	-1.1	-1.3	-1.3	-1.0	0.0	0.0	-1.2	-2.8
22	-3.0	-2.4	-2.5	-2.0	-1.6	-2.1	-1.8	-2.0	-1.6	-1.7	-1.1	-1.3	-1.7	-2.2	-2.6	-3.3	-2.7	-1.5	-1.7	-1.8	-2.0	-2.5	-3.0	-3.4
23	-3.0	-3.6	-3.6	-4.0	-4.5	-4.8	-5.0	-4.7	-3.1	-1.4	-2.4	-4.1	-1.0	-1.3	-2.5	-2.6	-2.3	-3.6	4.2	5.2	4.7	5.3	5.6	4.1
24	0.8	1.2	1.2	1.0	1.5	1.5	1.7	1.7	2.3	4.0	4.7	6.3	6.3	6.8	3.9	3.7	3.6	4.6	4.2	5.2	4.7	5.3	5.6	4.1
25	5.5	7.3	7.4	5.4	7.1	6.4	7.3	6.6	7.8	-2.2	0.0	0.5	3.0	4.4	5.5	5.5	5.4	4.7	3.8	3.0	3.3	3.6	2.5	3.2
26	4.4	3.4	3.2	3.3	2.9	3.1	2.9	3.4	4.7	5.9	7.6	7.0	4.0	5.0	6.6	6.3	7.0	6.0	7.0	7.0	6.8	7.2	7.5	7.4
27	7.2	7.1	7.1	7.0	7.0	7.3	7.8	8.2	8.5	9.4	10.2	9.8	11.0	10.8	10.8	11.0	11.5	11.8	11.3	11.4	11.1	10.2	9.5	10.3
28	10.6	15.3	13.6	12.9	12.6	13.0	11.1	10.5	10.4	10.0	9.2	8.1	7.3	7.1	5.3	5.9	5.1	4.7	4.2	4.0	4.4	4.1	3.6	3.3
29	2.8	1.5	0.9	0.3	-1.4	-1.4	-1.4	-1.0	-1.3	-0.9	-1.1	-1.0	-1.1	-1.3	-0.4	-0.2	1.0	1.3	1.5	2.4	2.4	2.3	1.8	2.4
30	2.6	2.9	2.2	2.1	2.6	2.5	2.8	3.0	3.1	3.9	3.5	4.2	4.2	4.9	5.0	5.6	5.8	5.5	5.5	5.8	5.8	5.8	6.0	6.2

MEAN	6.2	6.1	5.6	5.5	5.4	5.2	5.2	5.7	6.4	6.9	7.1	7.2	7.0	7.2	6.9	6.8	6.9	6.8	6.7	6.6	6.4	6.3	5.9	5.9
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MEAN DAILY DEWPOINT BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	15.0	15.3	8.3	8.9	11.5	9.0	10.5	12.2	11.1	7.2	6.4	3.8	5.5	3.3	8.4	8.5
DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
MEAN	7.9	1.5	0.4	3.5	-3.3	-1.4	-1.9	3.6	4.5	5.4	9.5	8.2	0.4	4.2		

NOTE: AS OF JANUARY 1 1983, HOURLY DEWPOINT TEMPERATURES HAVE REPLACED HOURLY WETBULB TEMPERATURES IN THIS PUBLICATION.

