

MONTHLY CLIMATE DATA

WINNIPEG, MANITOBA

Month: SEPTEMBER Year: 1993

	CURRENT		NORMAL	
	VALUE	DATE	VALUE	DATE
Mean Maximum	15.8		18.6	
Mean Minimum	4.8		6.1	
Mean	10.3		12.4	
Extreme Maximum and Date	24.2	3	38.8	1983/2
Extreme Minimum and Date	-1.7	29	-8.3	1899/29
Rainfall (mm)	22.4		50.9	
Snowfall (cm)	0.0		0.4	
Total Precipitation (mm)	22.4		51.3	
Days With Thunder	0		3	
Days With Measurable Precipitation	13		11	
Sunshine Hours	182.4		189.3	
Wind (km/h)	17.5		18.0	
Heating Degree Days Below 18 C	229.8		178.6	
Growing Degree Days Above 5 C	161.8		224.0	
Heating Degree Days Below 0 C	0.0		0.1	
Cooling Degree Days Above 18 C	0.0		9.2	

Highlights of the Month

The month was cool and dry. Maximum temperatures were especially cool, falling short of the normal maximum by almost 3 degrees. The highest temperature was only 24.2 degrees and the mercury peaked at 20 degrees or higher only 5 times. The normal highest temperature in September is 29.6 degrees while a temperature of 20 degrees or more normally occurs 13 times in September. Minimum temperatures were 1.3 degrees below normal and the mean temperature was 2.1 degrees below normal. September 1993 ranks as the 11th coldest in 122 years of temperature records.

The precipitation total of 22.4 mm was only 44% of normal but measurable rainfall was recorded on 13 out of 30 days.. Regardless of the number of days with precipitation, it was a relief to get less than normal precipitation in September after a summer of record setting rainfall. September 1993 was the 25th driest on record.

Sunshine hours and windspeeds were near the 1961 to 1990 normal.

WINNIPEG INT'L AIRPORT

DEW POINT SUMMARY
SUMMAIRE DES TEMPERATURES DE ROSEE

DEW POINT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
D	106	101	100	98	100	98	99	105	107	105	105	110	122	130	132	135	137	139	139	143	139	137	137	138	119
A	137	130	123	112	110	105	100	95	94	99	92	90	97	81	71	50	39	47	37	40	42	46	50	47	81
T	44	51	51	59	69	71	73	80	96	106	118	125	117	118	118	119	139	151	143	142	137	123	104	91	102
E	99	93	96	91	81	58	51	56	59	56	39	30	12	12	23	24	16	11	22	38	39	50	47	56	48
	60	57	51	62	61	66	69	72	85	79	71	40	30	24	31	34	45	72	78	64	65	53	65	59	58
	53	48	46	49	42	36	35	42	53	74	78	81	69	60	55	84	50	60	59	52	54	68	70	62	58
	65	61	58	54	68	71	69	68	79	83	46	42	47	41	42	45	30	20	47	41	40	32	30	27	50
	36	54	57	56	60	64	69	77	83	84	90	95	112	119	117	126	124	135	130	130	129	122	129	127	97
	116	110	108	106	109	94	87	75	44	40	45	35	34	31	35	34	36	53	47	33	35	34	35	33	59
	29	21	18	16	12	12	6	22	38	49	45	42	47	49	56	53	49	44	47	50	52	46	41	40	37
	38	39	41	40	42	42	42	49	65	70	83	92	94	108	108	116	115	114	121	120	119	124	124	124	85
	124	123	124	127	123	114	109	118	120	121	124	109	93	84	83	69	64	60	58	55	44	41	44	42	91
	37	36	36	35	36	24	23	27	32	30	36	44	44	39	37	28	22	25	19	16	18	17	21	24	29
	25	26	28	28	29	29	25	26	26	6	13	20	11	7	7	11	0	4	-2	-8	1	6	4	14	14
	5	4	6	4	4	5	8	12	18	23	29	26	35	28	30	40	41	43	48	50	54	54	56	57	28
	60	60	60	58	58	58	57	58	71	66	79	68	67	60	59	53	45	59	76	65	68	66	43	43	61
	37	30	27	23	18	3	0	6	20	29	52	52	46	49	46	57	41	59	67	58	48	40	39	42	37
	39	42	46	19	13	10	9	3	-4	4	15	24	21	23	22	23	29	31	34	36	36	36	30	24	24
	31	31	28	30	34	34	31	33	41	56	67	59	48	42	50	46	61	57	55	48	49	54	55	53	46
	51	53	56	57	59	60	59	61	69	77	89	93	96	105	104	104	104	104	103	102	99	95	90	88	82
	87	88	86	82	80	81	77	75	75	89	98	99	103	103	102	104	106	88	89	86	81	83	79	78	88
	75	70	70	62	56	45	39	36	38	30	35	36	42	33	33	4	2	9	16	17	21	21	20	35	35
	20	19	21	19	17	16	14	18	29	39	44	52	67	66	67	65	63	57	52	46	52	51	47	48	41
	46	44	42	39	37	34	29	24	33	48	59	67	64	72	73	79	74	78	91	87	88	75	65	63	59
	71	68	69	64	78	73	64	71	79	82	89	92	93	93	81	85	69	75	89	91	84	93	86	79	80
	77	77	64	55	58	67	37	28	20	14	18	9	22	11	23	19	-6	-14	-9	-10	-14	-13	3	-4	22
	-7	-2	-1	-2	2	3	0	-1	9	10	22	34	39	54	65	54	52	63	36	27	32	28	21	23	23
	25	21	22	16	11	20	18	16	29	23	5	13	20	24	17	28	19	20	13	-1	-15	-15	-14	-14	13
	-18	-17	-19	-19	-13	-12	-7	-13	-14	-8	6	-7	5	4	2	3	-15	-12	-1	3	4	7	7	11	-5
	12	16	15	13	7	2	1	5	11	25	37	59	77	97	76	61	46	47	24	28	27	35	2	-5	30

MEAN 53 52 51 48 49 46 43 45 50 54 58 58 59 59 59 59 58 53 57 58 55 54 54 51 50 53
MOYENNE

*TEMPERATURES IN TENTHS OF DEGREES CELSIUS
*TEMPERATURES EN DIXIEME DEGRES CELSIUS

COMPARATIVE RECORDS AT RELEVÉS COMPARATIFS A		WINNIPEG INT'L AIRPORT				MONTH MOIS SEPTEMBER			1993				
Temperature / Température Precipitation / Précipitation Rainfall / Hauteur de pluie Snowfall / Hauteur de neige Wind speed / Vitesse du vent Station pressure / Pression à la station		THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						
- Celsius - Millimètres/millimètres (mm) - Centimètres/centimètres (cm) - Kilomètres/h / kilomètres/h (km/h) - Kilopascals (kPa)		VALUE RELEVÉ	DAY JOUR	VALUE RELEVÉ	DAY JOUR		HIGHEST EVER MAXIMUM ABSOLU			LOWEST EVER MINIMUM ABSOLU		YEARS ANNÉES SINCE DE	
		VALUE RELEVÉ	DAY JOUR	VALUE RELEVÉ	DAY JOUR	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE		
HIGHEST TEMPERATURE (MAXIMUM) TEMPÉRATURE MAXIMALE		24.2	3	25.3	24		38.8	2	1983			121	
LOWEST TEMPERATURE (MINIMUM) TEMPÉRATURE MINIMALE		-1.7	29	-3.4	22					-8.3	29	1899	121
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		10.3		11.0		12.4	16.8	1948	8.0		1965	121	
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		22.4		57.8		50.9	149.6	1941	1.3		1948	121	
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE		0.0		0.0		0.4	18.3	1872	0.0		1988	121	
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		22.4		57.8		51.3	156.2	1872	1.3		1948	121	
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		13		11		11	17	1953	3		1948	121	
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		5.0	8	22.4	9		81.5	6	1972			121	
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE		0.0	0	0.0	0		18.3	25	1872			121	
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		5.0	8	22.4	9		81.5	6	1886			121	
MAXIMUM RAINFALL RECORDED IN HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN													
5 MINUTES		0.8	8	8.1	5		11.2	20	1970			40	
10 MINUTES		1.4	8	9.7	5		20.8	20	1970			40	
15 MINUTES		1.6	8	10.0	5		29.0	20	1970			40	
30 MINUTES		3.2	8	10.7	5		37.9	20	1970			40	
60 MINUTES		4.4	8	11.0	5		41.1	20	1970			40	
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		5.0	8	11.8	5		81.5	6	1886			121	
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		17.7		19.4		18.0	24.6	1943	12.7		1986	72	
MAXIMUM SPEED (2 min mean) (km/h) VITESSE MAXIMALE (moyenne sur 2 min.) (km/h)		NW 46	9	NNW 52	27		N 72	23	1942			54	
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		S 67	30	W 85	2		S105	16	1946			46	
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES D'INSOLATION		182.4		172.7		189.3	251.9	1940	113.0		1912	111	
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.46		98.20		98.55	98.87	1940	98.20		1992	54	
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.79	29	99.90	28		101.11	25	1940			54	
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.55	12	96.60	21				95.64	26	1959	54	
CLIMATOLOGICAL DATA THIS MONTH FOR THE PAST DONNÉES CLIMATOLOGIQUES CE MOIS-CI POUR LES											YEARS DERNIÈRE ANNÉES		
YEAR ANNÉE	MAXIMUM TEMP MAXIMALE	MINIMUM TEMP MINIMALE	MEAN TEMP MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP TOTALE	MEAN WIND SPEED VITESSE MOYENNE DES VENTS	MAXIMUM WIND SPEED VITESSE MAXIMALE DES VENTS	SUNSHINE HOURS HEURES D'INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFÉ	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE	COOLING DEGREE-DAYS DEGRÉS-JOURS DE REFRIGÉRATION	SNOWFALL SEPT. 1
1984	27.1	-1.7	10.6	55.4	6.6	62.0	14.3	SSE 44	180.6	223.8	178.1	0.0	6.6
1985	24.0	-3.3	10.0	28.5	TR	28.5	16.0	S 46	158.6	240.5	155.4	0.0	0.0
1986	24.0	-2.7	11.7	47.5	0.0	47.5	12.7	ESE 48	151.7	188.8	201.6	0.0	0.0
1987	29.3	-1.4	14.1	20.0	0.0	20.0	12.8	SSE 37	192.7	123.1	272.3	5.4	0.0
1988	27.7	0.1	12.6	61.3	0.0	61.3	17.5	N 46	200.4	165.1	227.6	2.7	0.0
1989	31.8	-4.5	13.6	10.0	0.0	10.0	15.9	NNW 48	240.8	143.9	259.2	12.7	0.0
1990	32.7	-2.5	13.9	31.5	0.0	31.5	16.9	NW 54	213.8	137.5	266.8	14.3	0.0
1991	29.7	-3.5	12.0	89.4	TR	89.4	23.9	NW 63	183.7	188.7	212.1	9.1	0.0
1992	25.3	-3.4	11.0	57.8	0.0	57.8	19.4	NNW 52	172.7	211.2	183.8	1.9	0.0
1993	24.2	-1.7	10.3	22.4	0.0	22.4	17.7	NW 46	182.4	229.8	161.8	0.0	0.0

Note/Aviz 1 Climatological Day/Journée climatologique 0001 CST - 2300 C ST.
 2 Normal/Normale 1961-1990
 3 Extremes for period of record/Extrêmes pour la période de registre
 4 Maximum rainfall recorded in may overlap calendar days/Hauteur de pluie maximale enregistrée en peut-être pour plus d'une journée du calendrier
 5 ** Indicates most recent occurrence/Indique le plus récent
 6 * Indicates first of more than one occurrence/Indique le premier de plusieurs