

ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR		INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1982																								PEAK GUSTS	TIME (CST)
HOUR STARTING	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	W 6	W 13	W 17	W 15	W 15	W 15	W 13	W 19	WSW 13	WSW 13	WSW 4	W 9	C 0	NW 6	NW 11	WNW 7	WNW 7	WNW 4	WNW 7	SW 6	NW 33	WSW 11	SW 17	WNW 17	NW 63	1951	
2	W 17	W 9	W 13	WNW 17	WNW 17	WNW 13	WNW 15	WNW 22	WNW 24	WNW 33	WNW 33	WNW 33	WNW 37	WNW 35	WNW 46	WNW 37	WNW 46	WNW 33	WNW 30	WNW 19	WNW 11	WNW 11	WNW 13	WNW 9	NW 67	1342	
3	WNW 11	WNW 9	C 0	W 4	W 6	W 4	W 4	C 0	C 0	SSW 9	SSW 7	SSW 11	SSW 15	SSW 17	SSW 15	SSW 19	SSW 19	S 22	S 17	S 17	S 22	S 24	S 20	S 20	S 35	2032	
4	S 22	SSW 17	SSW 17	SSW 20	SSW 13	C 0	S 19	S 17	S 13	W 13	WNW 22	WNW 26	NNE 26	NNE 28	NNE 28	NNE 28	NNE 26	NNE 30	NE 35	NNE 31	NNE 24	NNE 20	NNE 15	NNE 11	NNE 50	1725	
5	NNW 11	NNE 24	NNE 13	NE 24	NE 15	NE 9	NNE 9	ENE 9	ENE 11	ENE 13	ENE 15	ENE 22	NE 26	NNE 17	NNE 26	ENE 17	ENE 22	NE 17	NE 13	NE 15	NE 11	ENE 4	ENE 6	ENE 6	NNE 39	1042	
6	NNE 4	ENE 6	ESE 7	ESE 9	ESE 13	ESE 17	SSE 15	SSE 20	SSE 20	SE 15	SE 11	SE 20	SE 19	SE 20	SE 20	ESE 11	ESE 22	SE 26	SE 30	SE 28	SE 33	SE 30	SSE 37	SSE 37	SSE 59	2207	
7	SSE 37	SSE 28	SSE 33	S 28	S 20	S 19	S 15	S 15	S 15	SSW 15	SSW 15	S 17	SSW 17	S 19	S 28	S 30	S 35	S 35	S 31	SSE 24	S 31	S 30	S 33	S 28	S 56	2321	
8	S 26	S 26	S 26	S 11	SSW 9	SSW 7	SSW 11	WSW 9	WSW 9	ENE 6	ENE 6	ENE 9	SE 13	SE 9	E 11	SSE 13	SSE 19	SE 19	SE 20	SE 19	SE 15	SSE 15	SSE 19	SSE 19	S 46	1906	
9	SSE 20	SSE 19	S 19	S 19	S 19	S 19	S 19	S 19	S 19	SSW 24	SSW 20	S 15	SSW 20	S 24	S 13	SSW 19	SSW 19	SSW 6	SSW 0	SSE 19	S 26	S 28	S 26	S 24	SSE 44	1839	
10	S 20	S 17	S 17	S 17	S 17	S 15	S 20	S 19	S 19	S 20	S 22	S 13	S 24	SSE 24	SSE 22	SSE 20	SSE 26	SE 26	SE 26	SE 24	SE 24	SE 26	SE 31	SE 24	SE 43	1723	
11	SE 28	SSE 20	SSE 31	NW 28	NW 61	NW 44	NW 30	NW 19	WNW 31	WNW 35	WNW 24	WNW 22	WNW 30	WNW 33	WNW 26	WNW 22	WNW 15	WNW 19	C 0	WNW 6	WNW 11	WNW 11	WNW 2	WNW 2	WNW 87	0347	
12	C 0	W 6	W 4	W 4	W 2	W 4	SSE 4	SSE 4	SSE 4	C 0	C 0	C 0	C 0	C 0	C 0	ESE 4	ESE 13	SE 13	SE 20	SSE 13	SSE 15	SSE 17	SSE 15	SSE 15	SE 33	1731	
13	S 11	S 19	S 15	S 17	S 9	C 0	SSW 9	C 0	NNW 7	NNW 20	NNW 31	N 28	NNW 24	N 22	NNW 19	N 24	N 26	NNE 37	N 33	N 20	N 37	N 20	NNN 22	NNN 20	NNE 50	1631	
14	N 19	N 15	NE 26	NE 22	NE 28	NE 28	NE 20	NE 26	NE 20	NE 28	ENE 28	ENE 28	ENE 28	ENE 24	ENE 24	ENE 24	ENE 22	ENE 22	ENE 24	N 15	NNW 11	NNW 6	NNW 7	NNW 4	NE 46	0917	
15	N 4	NNE 4	N 4	C 0	C 0	C 0	C 0	WNW 4	WNW 4	S 7	NW 4	SW 13	SW 11	SW 11	SW 15	SW 15	SW 9	SW 9	SW 13	S 6	S 6	S 13	S 20	S 17	S 57	1349	
16	S 19	SSW 13	S 13	S 19	S 17	S 19	S 13	S 19	S 26	S 19	S 22	S 24	S 24	S 19	S 30	S 26	S 35	S 31	S 28	S 24	S 22	SW 9	SW 6	SW 7			

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF
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.	10.5	10.2	8.9	8.0	7.8	7.5	7.8	8.3	10.0	10.0	10.0	11.8	12.0	12.8	12.3	11.5	12.6	13.2	14.0	12.4	13.0	11.7	11.6	11.5
2.	11.1	10.5	9.6	9.9	9.4	9.6	9.9	11.0	12.8	14.2	15.5	16.7	18.0	19.8	19.2	19.4	19.2	19.2	18.7	16.4	12.4	10.9	9.9	9.2
3.	9.3	8.2	6.2	5.3	5.9	6.4	6.0	8.0	11.8	15.7	17.3	20.0	22.0	22.8	24.5	25.2	24.9	25.1	24.3	22.0	20.8	20.0	19.2	18.2
4.	17.5	16.2	15.2	15.2	15.2	14.6	13.0	14.3	16.3	19.2	20.4	21.9	22.8	23.0	23.2	22.3	21.2	18.7	16.5	14.7	13.5	12.0	9.8	8.8
5.	9.3	10.2	10.4	10.4	10.7	10.7	9.0	9.7	10.4	11.4	11.8	12.8	14.0	15.0	15.7	15.9	16.3	15.2	14.3	12.3	11.2	7.5	6.4	7.0
6.	4.6	3.8	6.2	6.0	6.0	6.8	6.5	8.0	9.6	10.0	10.9	11.4	12.8	14.2	13.3	13.8	12.8	13.2	13.3	13.2	12.6	12.0	13.5	13.7
7.	12.8	12.5	12.0	11.8	11.0	10.3	9.8	10.0	11.0	12.7	14.6	17.2	18.4	20.8	23.0	23.5	23.8	22.7	22.0	21.2	21.1	20.8	20.5	20.2
8.	20.6	20.3	20.1	19.6	18.4	17.1	17.5	17.0	19.1	21.7	23.4	25.8	26.9	27.9	28.7	29.0	29.0	28.5	27.1	25.2	23.8	22.9	22.6	22.0
9.	21.5	20.2	18.9	19.1	18.0	17.4	16.9	18.0	20.0	23.0	26.0	28.9	31.4	31.5	32.5	33.9	33.1	30.8	30.7	28.2	27.0	25.4	24.3	23.1
10	22.0	21.0	20.2	19.5	19.4	18.7	17.4	17.9	19.5	21.5	23.0	25.2	27.3	28.4	30.0	30.4	30.1	29.3	28.0	26.8	25.5	25.2	23.4	22.9
11	22.5	22.2	22.5	21.5	19.0	18.2	17.3	16.6	16.4	15.1	16.5	16.9	18.0	18.0	18.3	18.5	19.0	19.5	18.4	15.5	14.3	12.7	12.0	10.2
12	8.7	8.0	7.7	6.9	6.4	6.1	5.9	7.4	11.2	14.3	14.6	15.0	16.0	16.8	17.7	18.2	17.6	17.0	15.3	12.8	12.2	11.4	10.6	10.4
13	9.5	9.5	7.3	7.7	8.4	7.9	6.9	7.5	10.2	13.0	15.0	15.0	16.2	15.7	16.7	15.7	16.2	13.8	12.8	11.4	10.2	8.5	8.5	8.7
14	8.6	7.8	7.9	7.1	6.6	6.0	5.7	3.4	5.0	6.2	7.0	8.3	9.2	9.3	10.3	10.8	11.0	10.6	9.6	5.8	3.1	2.3	1.5	1.2
15	-2.2	-7	-5	-6	-1.6	-1.6	-1.5	-2.8	1.3	5.8	9.0	10.0	11.0	11.8	12.8	14.0	13.2	13.5	12.5	10.1	7.2	6.7	5.7	4.9
16	5.5	4.6	4.0	3.6	3.8	3.2	1.8	3.4	6.1	9.5	13.5	16.5	19.0	18.9	17.9	16.5	15.9	15.0	14.4	13.6	12.0	10.5	9.9	9.8
17	10.1	10.0	9.9	9.1	6.5	5.6	6.8	7.0	8.8	10.6	11.1	11.9	11.8	11.8	11.9	12.4	11.9	12.8	11.6	8.2	5.2	6.0	5.8	7.3
18	7.7	9.0	9.0	9.0	9.4	9.4	8.8	8.8	11.0	15.6	19.5	21.6	21.5	19.0	19.9	20.6	19.7	19.0	16.6	14.0	10.5	10.0	8.7	6.7
19	7.3	7.8	7.3	7.7	8.4	8.3	7.6	7.5	7.0	8.0	8.0	7.4	7.6	9.3	10.4	11.5	12.5	12.1	10.5	5.7	5.0	4.0	2.8	2.4
20	1.2	1.7	1.2	1.0	.8	.4	2.8	4.8	6.0	8.6	11.7	13.3	13.6	13.9	14.2	15.6	15.4	15.2	15.1	9.5	7.8	8.3	7.5	7.3
21	6.4	5.6	5.8	4.8	4.2	3.5	3.0	3.8	6.7	11.3	14.7	17.3	19.8	20.7	21.9	22.0	22.0	21.6	20.4	15.4	14.6	13.4	12.6	11.2
22	10.6	10.0	9.1	8.8	8.1	7.3	8.3	8.3	10.9	12.6	14.5	17.7	20.5	22.8	23.4	24.6	22.9	22.3	17.8	17.0	16.6	16.0	15.8	14.6
23	13.2	11.5	9.5	9.8	12.0	11.7	11.5	12.5	12.3	13.2	12.3	11.5	11.8	11.2	11.5	13.0	16.2	14.8	13.2	11.0	10.4	8.6	8.2	8.0
24	6.5	4.8	4.0	3.1	2.3	1.1	.5	.8	5.0	7.9	10.5	12.2	13.0	13.8	13.5	15.0	14.8	13.6	12.0	8.9	7.5	6.7	6.1	5.1
25	4.5	3.0	3.2	2.0	2.9	1.8	2.5	3.4	5.4	7.8	10.3	13.5	13.9	15.7	15.3	16.5	15.7	15.5	15.8	14.5	14.2	13.5	13.0	12.8
26	12.8	12.5	11.9	11.4	10.7	9.4	9.3	8.0	10.0	12.8	14.2	15.0	14.8	14.2	14.2	14.0	13.3	12.3	11.8	9.9	10.3	9.3	8.1	7.8
27	8.0	6.8	7.2	7.3	7.3	7.2	6.8	6.5	6.5	6.5	6.6	6.9	7.0	7.4	6.9	6.1	5.6	5.1	4.9	4.8	4.5	4.8	5.2	5.5
28	5.2	5.6	6.2	6.8	7.2	7.7	8.2	8.7	9.4	9.9	10.2	10.4	10.7	11.0	11.2	11.4	11.8	12.4	12.8	13.0	13.3	14.0	11.6	10.3
29	9.0	8.8	7.3	6.7	6.2	6.2	5.2	4.6	5.3	6.3	7.2	8.2	8.5	9.3	10.2	10.4	9.7	8.8	8.3	8.2	7.8	7.4	7.0	6.8
30	6.2	5.3	5.4	4.8	3.7	3.0	2.4	1.8	3.3	4.8	5.5	6.0	6.5	6.8	7.0	7.2	7.5	7.0	5.2	4.0	3.2	2.0	.6	.3
MEAN	10.1	9.6	9.1	8.8	8.5	8.1	7.8	8.1	9.9	12.0	13.5	14.9	15.9	16.5	16.9	17.3	17.2	16.6	15.6	13.5	12.4	11.5	10.7	10.3

MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	10.8	13.9	16.2	16.9	11.6	10.3	16.8	23.1	25.0	23.9	17.5	12.0	11.3	6.8	5.8	10.4

MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MEAN	9.3	13.5	7.8	8.2	12.6	15.0	11.6	7.9	9.9	11.6	6.3	10.0	7.6	4.6

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		SEPTEMBER/SEPTEMBRE		82							
Temperature/Température Precipitation/Précipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	— Celsius — Millimètres (mm) — Millimètres (mm) — Centimètres (cm) — Kilomètres/par heure (km/h) — Kilopascals (kPa)	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
		VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
							VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE		34.5	9	29.5	10	29.2	37.2	1	1929	21.7	1	1884	111
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		-3.3	15	-2.7	28	-2.5	2.8	7	1906	-8.3	29	1899	111
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		12.2		12.4		12.4	16.8	20, 27, 28	1948	8.0		1965	111
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		58.2		72.1		53.0	149.6		1941	1.3		1948	111
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE				0.4		0.2	18.3		1872	Nil	Several		111
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		58.2		72.5		53.3	156.2		1872	1.3		1948	111
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		9		11		11	17		1941	3		1897	99
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		22.6*	27	23.0*	6		81.5	6	1953			1948	111
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE				0.4	28		18.3	25	1872				111
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		22.6*	27	23.0*	6		81.5	6	1886				111
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		2.8	28	3.9	6		12.4	20	1970				24
10 MINUTES		3.9	28	6.0	6		23.4	20	1970				24
15 MINUTES		4.4	28	8.3	6		29.7	20	1970				24
30 MINUTES		8.1	28	10.7	6		44.2	20	1970				24
60 MINUTES		8.6	28	11.0	6		47.8	20	1970				24
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		27.2	27-28	35.4	5-6		81.5	6	1886				111
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		19.8		17.3		18.5	24.6		1943	13.2		1925	62
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		NW 61	11	NW 63	27	56	N 72	23	1942				44
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		WNW 87	11	NW 96	26	79	S 105	16	1946				38
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		201.1		210.6		184.6	251.9		1940	113.0		1912	87
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.62		98.67		98.51	98.87		1940	98.25		1970	44
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		1007.4	14	100.44	16	100.07	101.11	25	1940				44
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.52	28	96.42	26	96.68				95.64	26	1959	44
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES 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 WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREES DAYS DEGREES JOURS DE CHAUFFE	GROWING DEGREES DAYS DEGREES JOURS DE CROISSANCE		
1973	25.6	-3.9	12.0	82.0		82.0	18.0	NW 51	206.6	180.6	215.6		
1974	28.9	-4.4	9.8	42.9		46.0	16.3	NNW 58	166.6	240.0	159.4		
1975	27.2	-2.2	10.9	41.8	Tr.	41.8	18.7	NNW 51	180.3	213.4	180.5		
1976	34.5	-3.6	13.3	9.9		9.9	18.5	NW 54	227.5	159.8	251.3		
1977	25.4	0.1	12.4	148.2		148.2	16.1	NNW 52	136.3	170.5	220.5		
1978	36.2	1.8	14.6	82.6		82.6	17.8	E 54	202.4	132.1	288.7		
								S 54					
1979	32.8	1.3	13.0	24.9		24.9	17.6	WNW 52	189.9	158.0	239.7		
1980	33.3	-4.2	11.2	85.6		85.6	18.6	NW 52	171.7	210.2	194.6		
1981	29.5	-2.7	12.4	72.1	0.4	72.5	17.3	NW 63	210.6	172.9	228.8		
1982	34.5	-3.3	12.2	58.2		58.2	19.8	NW 61	201.1	193.6	216.5		

35.4 mm Pcpn and rain Sept. 5-6/81. 24hr. rain and pcpn 27.2 Sept. 27-28/82