

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1980

ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR	INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1980																								PEAK GUST	HOUR	
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	SSW 4	SSW 4	W 4	WSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	SSW 4	W 4	WNW 37	16 CST
2	SW 7	WSW 7	SW 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	SSE 7	S 7	S 48	23 CST
3	S 30	SSW 22	SSW 19	SSW 19	SSW 15	S 7	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	S 4	WNW 46	21 CST
4	SW 22	W 24	W 22	W 30	W 30	NW 24	NW 28	W 41	WNW 39	WNW 46	WNW 52	WNW 46	WNW 43	WNW 37	WNW 24	WNW 19	WNW 33	WNW 30	WNW 19	WNW 13	WNW 17	WNW 17	WNW 17	WNW 17	WNW 17	WNW 72	08 CST
5	W 15	W 15	W 15	W 15	W 15	WNW 17	WNW 11	WNW 17	WNW 15	WNW 11	WNW 13	WNW 28	WNW 17	WNW 9	WNW 4	WNW 13	WNW 0	WNW 0	WNW 0	WNW 9	WNW 11	WNW 13	WNW 13	WNW 13	WNW 13	NW 31	12 CST
6	SSE 13	SSE 11	SSE 20	SSE 24	SSE 19	SSE 15	SSE 9	SSE 17	SSE 9	SSE 11	SSE 9	SSE 6	SSE 6	SSE 9	SSE 6	SSE 6	SSE 7	SSE 13	SSE 13	SSE 15	SSE 15	SSE 15	SSE 15	SSE 15	SSE 15	SSE 31	04 CST
7	SSE 13	SSE 9	SSE 17	SSE 15	SSE 11	SSE 9	SSE 7	SSE 7	SSE 7	SSE 11	SSE 11	SSE 15	SSE 15	SSE 20	SSE 22	SSE 24	SSE 24	SSE 24	SSE 17	SSE 17	SSE 24	SSE 26	SSE 31	SSE 33	SSE 33	S 50	00 CST
8	S 33	WSW 24	S 20	S 20	S 28	S 15	SW 15	E 7	W 13	NW 7	NW 7	NW 17	NW 37	NW 46	NW 48	NW 37	NW 37	NW 24	NW 19	NW 13	NW 11	NW 11	NW 19	NW 20	NNW 63	13 CST	
9	WNW 15	WNW 17	WNW 13	WNW 15	WNW 20	WNW 17	WNW 22	WNW 24	WNW 31	WNW 35	WNW 30	WNW 37	WNW 41	WNW 33	WNW 33	WNW 35	WNW 26	WNW 9	WNW 9	WNW 24	WNW 24	WNW 24	WNW 24	WNW 24	NW 57	13 CST	
10	WSW 15	WSW 17	WSW 17	WSW 17	WSW 19	WSW 17	WSW 22	WSW 24	WSW 20	WSW 26	WSW 22	WSW 30	WSW 26	WSW 26	WSW 26	WSW 26	WSW 26	WSW 17	WSW 9	WSW 7	WSW 9	WSW 11	WSW 11	WSW 11	W 56	13 CST	
11	ENE 2	ENE 6	ENE 11	ENE 13	ENE 13	ENE 19	ENE 15	E 22	E 26	E 26	E 28	E 26	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	ESE 43	09 CST	
12	E 22	E 22	E 20	E 19	E 15	E 15	E 19	E 20	E 22	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 24	E 37	11 CST	
13	NE 17	NE 15	NE 19	NE 17	NE 15	NE 15	NE 22	NE 24	NE 24	NE 26	NE 28	NE 30	NE 31	NE 39	NE 35	NE 33	NE 33	NE 33	NE 33	NE 33	NE 33	NE 33	NE 33	NE 33	NE 48	15 CST	
14	NNE 6	NNE 4	NNE 0	NNE 0	NNE 0	NNE 11	NNE 9	NNE 11	NNE 11	NNE 11	NNE 17	NNE 17	NNE 2	NNE 13	NNE 11	NNE 13	NNE 17	NNE 22	NNE 15	NNE 15	NNE 17	NNE 17	NNE 17	NNE 17	S 39	23 CST	
15	S 22	S 22	S 28	S 33	S 33	S 41	S 37	S 46	S 46	S 39	S 37	S 24	S 28	S 35	S 30	S 44	S 48	S 41	S 44	S 44	S 44	S 44	S 44	S 44	W 81	20 CST	
16	WNW 43	WNW 37	WNW 24	WNW 20	WNW 22	WNW 22	WNW 26	WNW 17	WNW 22	WNW 24	WNW 35	WNW 41	WNW 33	WNW 33	WNW 33	WNW 28	WNW 30	WNW 22	WNW 17	WNW 11	WNW 7	WNW 11	WNW 11	WNW 11	WNW 61	01 CST	

HOURLY TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF SEPTEMBER 1980  
 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.
27	12.0	12.1	12.0	11.5	10.8	10.0	9.4	9.2	11.1	14.4	17.0	18.5	18.8	19.0	20.1	19.8	20.9	19.0	17.0	15.2	14.6	13.2	13.4	12.8
28	12.0	10.5	10.5	10.5	8.8	8.1	8.6	10.2	11.0	12.7	15.1	17.2	18.5	19.6	19.6	19.4	18.8	18.6	18.8	18.5	17.9	18.1	18.5	18.6
29	12.6	13.8	12.7	12.4	12.0	12.0	12.5	14.3	15.1	15.0	16.3	17.8	19.1	20.5	20.1	19.7	18.3	17.6	16.9	15.8	14.2	13.2	12.9	
30	11.4	11.3	11.0	9.9	9.6	9.8	8.7	10.4	12.6	15.0	17.5	18.8	20.2	21.3	21.8	22.2	22.3	22.5	21.3	15.2	15.0	13.5	12.1	11.5
01	12.9	13.2	13.8	14.6	14.3	13.0	12.1	12.8	14.4	16.2	18.3	20.4	22.3	24.4	26.2	27.0	27.0	27.2	25.7	22.3	20.2	19.7	18.8	18.0
02	13.5	13.1	12.9	12.2	12.2	11.9	11.9	12.0	12.3	12.7	13.0	13.2	13.1	12.9	12.4	12.1	12.0	11.6	11.9	12.1	11.8	11.8	11.3	11.3
03	10.8	9.6	8.5	8.8	7.6	7.2	6.5	7.0	9.4	11.8	14.0	15.3	16.4	17.6	17.8	18.2	18.0	17.6	16.5	13.1	11.0	9.5	7.3	7.2
04	12.7	12.6	13.0	13.3	13.3	12.5	12.3	12.6	12.9	13.4	13.8	15.4	17.2	18.0	18.0	18.4	18.3	17.7	16.7	14.5	13.0	14.0	14.0	12.8
05	6.0	5.8	5.2	4.3	4.0	4.2	4.5	5.8	5.7	6.6	7.5	8.4	7.8	8.7	9.1	9.6	9.0	8.5	7.1	6.2	5.9	4.5	3.1	2.8
06	2.6	2.8	2.8	4.3	4.5	4.2	3.5	2.8	2.9	3.3	3.8	3.9	4.0	4.4	4.7	4.6	4.4	4.0	4.0	4.0	4.3	4.4	4.0	2.7
07	3.9	4.6	5.0	5.0	4.2	4.5	4.8	5.1	5.3	5.3	5.9	6.1	6.4	6.9	6.9	6.5	6.0	5.7	5.6	5.1	4.2	2.6	4.2	4.0
08	4.0	4.0	4.1	4.3	4.5	4.1	4.0	3.8	3.6	4.1	4.6	5.2	6.1	7.1	8.2	8.5	10.2	9.4	9.6	8.6	7.5	8.4	7.8	8.4
09	8.1	8.7	8.9	9.0	8.5	8.6	9.0	9.0	10.3	11.3	12.3	12.2	12.8	12.6	12.0	12.0	11.5	11.0	10.8	11.0	10.5	10.0	10.2	10.0
10	10.0	9.7	9.0	8.0	7.2	6.4	5.5	6.0	6.0	6.0	7.5	8.5	8.3	7.8	8.0	9.2	8.5	6.5	5.6	3.9	3.5	1.6	1.6	1.9
11	6.5	6.5	6.5	6.0	5.2	5.1	4.2	5.3	6.2	6.3	7.3	7.0	8.0	7.8	7.5	6.8	6.8	6.4	6.2	6.0	5.5	4.8	3.5	3.5
12	1.2	2.7	1.9	1.7	1.6	1.1	1.1	1.5	1.8	2.8	5.0	5.5	5.5	6.6	6.7	7.0	6.9	6.3	4.9	2.9	1.8	2.5	1.4	1.1
13	0.0	0.8	1.2	1.9	1.9	2.5	2.9	3.3	4.0	5.0	7.3	10.0	12.8	13.8	14.0	11.7	11.0	9.3	7.6	4.8	2.9	2.1	1.6	1.2
14	-2.0	0.0	-1.5	-1.6	-1.9	-1.7	-1.6	-1.5	1.0	5.5	7.8	8.6	9.8	10.3	10.7	11.1	11.5	10.7	10.2	8.1	7.2	5.9	6.4	7.2
15	6.6	6.2	6.4	6.6	6.8	6.8	6.4	7.0	8.0	10.5	12.8	14.5	16.0	17.7	19.0	19.9	20.2	20.7	19.8	19.2	17.0	17.4	15.8	14.9
16	14.4	13.5	12.7	12.6	10.4	9.4	12.2	12.4	11.8	12.5	14.1	16.0	16.1	18.0	18.5	19.0	18.0	14.8	12.5	10.7	9.3	8.3	8.3	10.4
17	10.3	9.9	9.5	9.4	9.0	9.5	10.4	12.0	13.2	14.5	17.0	20.0	20.8	24.9	23.3	21.5	19.0	17.0	15.3	14.0	12.8	12.7	12.0	11.0
MEAN	9.0	8.7	8.5	8.4	7.9	7.7	7.7	8.2	9.3	10.9	12.3	13.5	14.3	15.1	15.5	15.6	15.3	14.6	13.7	12.1	11.2	10.3	9.7	9.3

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS		SEPTEMBER / SEPTEMBRE		1980							
Temperature/Température	° Celsius	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	
Precipitation/Précipitation	Millimetres (mm)	VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
Rainfall/Hauteur de pluie	Centimetres (cm)					VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE		
Snowfall/Hauteur de neige	Kilometres/Par hour, (km/h)												
Wind speed/Vitesse du vent	Kilopascals												
Station pressure/Pression à la station													
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE		33.3	7	32.8	16	29.1	37.2	1 1929	21.7	1 1884	109		
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		- 4.2	18	1.3	30	- 2.5	2.8	7 1906 20, 27, 28 1948 1968	- 8.3	29 1899	109		
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		11.2		13.0		12.6	16.8	1948	8.0	1965	109		
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		85.6		24.9		52.6	149.6	1941	1.3	1948	109		
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE						0.3	18.3	1872	Nil	Several	109		
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE		85.6		24.9		52.6	156.2	1872	1.3	1948	109		
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		15		10		10	17	1941 1953 1972	3	1897 1948	97		
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		17.6*	3	10.6	1		81.5	6 1886			109		
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE							18.3	25 1872			109		
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE		17.6*	3	10.6	1		81.5	6 1886			109		
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		7.9	3	3.8	1		12.4	20 1970			22		
10 MINUTES		9.9	3	4.9	1		23.4	20 1970			22		
15 MINUTES		10.9	3	7.2	1		29.7	20 1970			22		
30 MINUTES		11.1	3	8.3	1		44.2	20 1970			22		
60 MINUTES		11.8	3	8.7	1		47.8	20 1970			22		
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		18.0	3-4	10.6	1		81.5	6 1886			109		
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		18.6		17.6		18.8	24.6	1943	13.2	1925	60		
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)		NW 52	4	WNW52	17	55	N 72	23 1942			42		
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)		W 81	15	WNW76	29	78	S105	16 1946			36		
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		171.7		189.9		182.6	251.9	1940	113.0	1912	81		
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)		98.43		98.50		98.51	98.87	1940	98.25	1970	42		
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)		99.86	14	99.75	18	100.05	101.11	25 1940			42		
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)		96.74	4	96.64	1	96.69			95.64	26 1959	42		
CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES													
TEN (10) DIX YEARS DERNIÈRE ANNÉES													
YEAR ANNÉE	MAXIMUM TEMP. TEMP. MAXIMALE	MINIMUM TEMP. TEMP. MINIMALE	MEAN TEMP. TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. PRÉCIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREES DAYS DEGREES-JOURS DE CHAUFFÉE	GROWING DEGREES DAYS DEGREES-JOURS DE CROISSANCE		
1971	30.6	-2.2	13.3	49.8		49.8	15.6	S 39	187.0	146.1	255.0		
1972	26.1	-2.8	10.3	60.2	0.8	61.2	17.5	WNW45	158.3	228.3	171.7		
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	2.8	46.0	16.3	NNW58	166.6	240.0	159.4		
1975	27.2	-2.2	10.9	41.8	Tr.	41.8	18.7	NNW51	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	NNW52	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		
1979	32.8	1.3	13.0	24.9		24.9	17.6	S 54					
1980	33.3	-4.2	11.2	85.6		85.6	18.6	WNW52 NW 52	189.9 171.7	158.0 210.2	239.7 194.6		

\* 18.0 mm Sept. 3-4.