

1. Cloudy to overcast. Drizzle and rainshowers. Maximum temperature near normal, minimum above normal. Mostly moderate winds, gusty in afternoon, decreasing to light in early evening.
2. Overcast. Drizzle and rainshowers. Maximum temperatures below normal, minimum near normal. Light winds increasing to moderate with strong gusts late morning.
3. Overcast. Rainshowers. Maximum temperatures below normal, minimum near normal. Moderate winds decreasing to light in late afternoon.
4. Clearing overnight. Becoming cloudy early morning, clearing in early evening. Maximum temperature slightly below normal, minimum near normal. Light winds.
5. Becoming overcast overnight, clearing in early afternoon. Rainshowers in late morning. Temperatures near normal. Winds light.
6. Clear becoming cloudy in late morning. Temperatures near normal. Winds increasing to moderate overnight, becoming light in late afternoon.
7. Cloudy, clearing in late afternoon. Maximum temperatures below normal, minimum near normal. Winds light increasing to moderate with strong gusts by late morning decreasing to light in early evening.
8. Variable cloud overnight becoming clear by early morning. Thundershowers in late evening. Temperatures slightly below normal. Winds light with occasional gusts in early afternoon.
9. Thunderstorm overnight, clearing by early morning. Temperatures near normal. Winds light.
10. Mainly clear becoming cloudy by late morning and overcast by early evening. Temperatures near normal. Winds light.
11. Overcast with showers. Maximum temperatures slightly below normal, minimum temperatures slightly above normal. Light winds becoming moderate in late afternoon.
12. Showers ending in late morning becoming clear in early evening. Maximum temperatures slightly below normal, minimum temperatures near normal. Winds decreasing overnight and increasing to moderate gusty strong in late morning, decreasing to light in early evening.
13. Mainly sunny. Temperatures near normal. Winds light.
14. Variable cloud. Temperatures near normal. Winds light increasing moderate with strong gusts in late morning.
15. Mainly cloudy becoming sunny near noon. Odd shower in late morning. Temperatures above normal. Moderate winds with strong gusts decreasing to light in late morning.
16. Clear becoming cloudy overnight and clearing in early evening. Temperatures above normal. Winds light.
17. Clear overnight with cloud and thundershowers in early morning, becoming clear in early evening. Temperatures above normal. Winds light with moderate gusts in thunderstorm.
18. Becoming cloudy overnight with thundershowers in early morning, clearing in late afternoon. Maximum temperature near normal, minimum temperature above normal. Light to moderate winds increasing during thunderstorm to strong with storm force winds.
19. Clear becoming cloudy with showers in late evening. Temperatures near normal. Winds moderate decreasing to light by early evening.
20. Overcast with thundershowers overnight, clearing by early morning. Temperatures near normal. Winds increasing to moderate overnight decreasing to light by early morning.
21. Clear becoming overcast with thundershowers in early evening. Temperatures near normal. Winds light increasing in late morning to moderate with gale force gusts during early afternoon.
22. Cloudy clearing in early morning with increasing cloud in early afternoon. Temperatures near normal. Winds moderate with strong gusts in early morning with gusts to gale force in early afternoon. Winds decreasing to light by early evening.
23. Clearing overnight with variable cloud in late afternoon. Temperatures near normal. Winds light increasing to strong with gale force gusts in late morning and decreasing to light by early evening.
24. Variable cloud with showers clearing in early evening. Maximum temperatures below normal, minimum temperatures near normal. Winds light with moderate gusts in late morning.
25. Clear with variable afternoon clouds. Temperatures slightly below normal. Winds light.
26. Clear with afternoon cloudy periods. Temperatures near normal. Winds light.
27. Clear with afternoon cloudy periods. Temperatures near normal. Winds light.
28. Clear with increasing cloud in late morning. Temperatures near normal. Winds light.
29. Cloudy becoming variable cloudiness by early afternoon. Temperatures near normal. Winds increasing to moderate overnight.
30. Variable cloudiness becoming mainly sunny in early morning. Maximum temperatures above normal, minimum temperatures near normal. Winds moderate with strong gusts decreasing to light by early evening.
31. Sunny. Temperatures near normal. Winds light increasing to moderate with gale force gusts by late morning decreasing to light by early evening.

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	96	96	94	98	98	100	100	98	100	98	91	80	75	70	84	96	93	88	93	89	91	89	91	91
2	92	95	99	100	100	100	98	98	96	96	91	86	84	84	92	94	94	96	92	92	94	96	100	100
3	96	100	100	100	100	100	100	98	96	94	94	90	84	84	85	85	85	86	81	81	91	95	96	94
4	96	96	98	97	99	98	95	88	89	81	75	74	74	77	75	72	72	71	77	77	80	87	91	94
5	94	94	98	96	98	96	96	96	92	94	91	89	91	93	93	83	75	72	75	66	74	69	72	73
6	75	79	79	82	88	88	86	81	80	77	73	70	68	67	61	60	60	61	62	71	78	84	87	87
7	90	81	92	94	92	92	92	88	85	81	83	77	69	58	58	58	62	62	62	59	66	64	69	71
8	80	76	82	87	86	93	91	80	66	76	64	54	52	54	52	52	53	53	57	55	66	71	83	81
9	85	90	94	96	96	98	96	90	85	79	73	69	62	61	56	60	56	57	56	56	57	56	53	61
10	64	73	78	74	73	66	66	63	63	65	62	64	64	58	56	56	56	52	52	61	65	66	65	69
11	70	68	71	69	69	71	73	73	77	84	89	94	93	86	86	86	81	83	83	86	87	91	87	91
12	91	94	92	94	94	98	96	96	96	89	78	84	81	76	75	72	68	68	65	69	76	83	88	92
13	94	92	92	96	94	96	96	92	89	81	76	71	71	65	63	61	59	59	58	62	67	71	75	75
14	81	82	84	86	88	88	79	80	76	79	71	64	60	58	59	56	56	58	59	63	69	68	68	72
15	74	74	75	78	81	84	86	83	85	82	78	76	73	71	72	67	64	64	54	61	65	75	79	84
16	87	92	90	91	93	95	95	81	73	75	72	69	65	62	58	54	54	61	60	61	69	80	83	85
17	87	87	90	88	88	82	86	85	86	82	70	63	59	61	61	60	64	73	70	65	63	69	70	81
18	81	78	80	80	83	89	78	68	94	89	88	85	79	70	62	62	61	57	59	64	67	71	76	77
19	80	80	76	79	81	82	77	75	71	65	61	50	45	44	43	41	38	41	46	51	51	62	78	83
20	76	84	89	85	90	92	94	92	86	78	73	69	63	59	57	55	53	54	50	50	49	55	66	67
21	69	71	74	72	72	75	71	63	75	70	64	58	57	56	56	56	58	58	60	64	67	82	78	87
22	85	86	84	86	87	87	84	75	66	63	53	53	50	45	45	44	59	55	53	53	62	71	72	75
23	84	82	80	83	84	85	82	81	76	63	57	50	46	42	38	39	36	39	71	69	69	75	79	81
24	84	84	88	92	89	89	89	76	69	60	59	59	57	58	55	62	57	53	55	59	66	74	78	84
25	81	88	91	93	94	93	91	89	82	71	57	50	47	45	41	43	45	43	49	52	55	49	54	54
26	62	72	72	76	81	86	83	73	64	60	54	51	51	47	47	44	43	43	41	44	46	54	59	64
27	66	70	76	80	81	81	76	70	63	57	46	43	41	41	36	37	37	35	38	46	58	66	70	78
28	82	84	81	83	89	89	85	81	67	59	48	37	40	37	37	34	35	37	36	41	52	55	58	58
29	58	67	72	75	78	78	80	79	75	74	67	66	61	59	60	56	50	51	50	50	50	50	52	57
30	65	69	72	73	86	81	79	78	74	72	67	65	59	55	56	55	66	61	49	53	55	57	64	71
31	71	66	69	70	71	71	70	63	58	52	46	41	38	36	33	34	33	34	36	47	54	58	59	64

Note/Avis: 1. Climatological Day/Journee climatologique 0001 C.S.T. - 0000 C.S.T.  
 2. Hours are C.S.T./Les heures sont a l'heure normale de la localite  
 3. Unit/Unite = percent/pour cent

WINDS (km/h) AT:  
DES VENTS (km/h) A:

WINNIPEG INTERNATIONAL AIRPORT  
AEROPORT INTERN. DE WINNIPEG

MONTH: JULY 1991  
MOIS: JUILLET 1991

Page 4.

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	Peak Gust Rafale Max	Hour/Date Heure/Date		
1	E	S	SSE	SE	SE	ESE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSE	S	SSE	SSW	SW	SSW	SSW	S	S	SSE	37	1333	
2	S	SSW	SSE	C	NNW	N	NE	N	N	N	N	NNE	NNE	N	N	N	NNW	N	N	N	NNW	NNW	NNW	NNW	E	56	1105	
3	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	NNE	N	N	NNE	N	NW	NW	NW	N	35	0914	
4	NW	NNW	NW	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	NW	W	W	W	W	WSW	WSW	WSW	SSW	SW	SSW	S	S	W	32	1216	
5	S	S	S	S	SSE	SSW	S	SSE	SSE	S	S	S	S	SSW	S	NW	NW	SW	W	SW	SSW	WSW	WSW	WSW	W	43	2005	
6	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	WNW	WNW	NW	NNW	NNW	NW	N	NNW	NNW	W	43	1116	
7	NW	WNW	NNW	NW	NNE	NNW	NW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	WNW	WNW	W	57	1158		
8	W	W	WNW	C	C	C	S	SSW	S	SW	W	W	WSW	W	WSW	WSW	SW	SW	SW	SSW	SSW	SSW	NE	E	NNE	41	2129	
9	SSW	SE	SW	N	SSW	C	C	C	NW	N	E	NNE	WNW	WNW	NW	N	NE	NE	NE	ENE	ENE	E	E	E	E	7		
10	C	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	SSW	S	WSW	SW	S	S	C	SSE	6		
11	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	S	S	SSE	E	E	ESE	ESE	ESE	E	E	E	E	ENE	NE	E	ENE	E	39	1744	
12	ENE	ENE	ENE	NE	NNE	NNE	N	N	NNE	NNE	N	N	N	N	N	N	NNE	NNE	NNE	N	N	N	NNW	NW	N	56	1302	
13	NW	WNW	WNW	NW	NW	NNW	W	W	NW	WNW	NW	WNW	W	W	W	WSW	W	SW	W	WSW	SSW	SSW	SSW	S	S	13		
14	SSW	S	S	S	S	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	S	57	1401	
15	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	57	0227	
16	NW	N	NNE	NNW	NNE	NNW	NNE	ENE	C	W	NW	WNW	W	W	W	W	W	W	WSW	WSW	WSW	SSW	SSW	SSW	S	13		
17	SSW	S	C	S	SW	SSE	WNW	ESE	WNW	S	SSE	S	SSE	S	S	S	S	SE	SE	S	SSE	SSE	S	S	S	48	1109	
18	S	S	SSE	S	S	WNW	NNE	WNW	ENE	E	W	W	WSW	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WNW	109	0655	
19	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	W	W	WSW	W	W	W	W	W	W	W	WSW	S	C	WNW	W	48	1516	
20	W	WNW	SW	SW	S	S	SSE	S	W	W	W	WSW	WNW	W	W	NNW	NW	NE	NE	NE	ENE	E	ENE	ESE	WSW	43	0203	
21	SSE	S	SSE	SE	SSE	SSE	SSE	SSE	S	S	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	W	70	1407	
22	S	SSW	WSW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	W	WNW	WNW	WNW	NNW	NW	NW	NW	WNW	WNW	W	W	WNW	82	1451	
23	W	W	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	N	W	W	W	NW	NNE	WNW	70	1503	
24	WSW	WNW	WNW	WNW	NNW	NNW	NNW	N	N	N	N	N	NNE	NNE	N	N	NNW	NNW	NW	WNW	W	W	WNW	NNW	61	0934		
25	NW	NW	NW	NW	WNW	WNW	WNW	NW	NW	NW	N	NNW	NNW	N	N	NE	N	NNE	NNE	NE	ENE	ENE	ENE	N	N	39	1457	
26	SSE	SSE	S	S	SSE	SE	ESE	ESE	SSE	SE	SE	SSE	ESE	C	SE	SSE	NE	S	ENE	SE	E	ENE	E	ESE	13			
27	ESE	E	ESE	SE	SE	E	NE	SSE	ESE	ESE	E	ESE	ESE	SSE	ENE	ESE	E	NE	NE	NE	NE	NE	NE	NE	SE	39	1253	
28	ENE	NE	SSE	C	C	C	ENE	C	NNE	NNE	ENE	N	C	SSW	SSW	SSE	SSE	S	SE	SSE	S	SSE	SSE	SSE	S	33	2344	
29	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	46	1139	
30	S	S	SSE	S	SSE	SSE	SSE	SSE	S	S	S	S	S	S	SSW	NNW	NW	NW	WNW	WNW	WNW	WNW	WNW	W	NW	69	1555	
31	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WNW	W	W	W	W	W	W	W	WNW	NW	W	W	W	W	19	

Note/Avis: 1. Climatological Day/Journée climatologique 0001 C.S.T. - 0000 C.S.T.  
 2. Hours are C.S.T./Les heures sont a l'heure normale de la localité  
 3. Unit/Unite = 1.0 km/h  
 4. C = Calm/Calme  
 5. M = Missing/Manquant  
 6. \* Indicates first of more than one occurrence of the same speed/  
 Indique le premier de plusieurs de la meme vitesse

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						NO OF DAYS NO DE JOURS
	VALUE RELEVÉ	DAY JOUR	VALUE RELEVÉ	DAY JOUR		HIGHEST EVER MAXIMUM ABSOLU			LOWEST EVER MINIMUM ABSOLU			
						VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE (MAXIMUM) TEMPÉRATURE MAXIMALE	31.5	15	30.8	25		42.2	11	1936				120
LOWEST TEMPERATURE (MINIMUM) TEMPÉRATURE MINIMALE	8.9	25	7.4	30					1.1	3	1972	120
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	19.7		19.2		19.6	24.2		1936	15.4		1884	120
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	51.2		33.2		75.9	197.4		1953	13.5		1875	120
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE												
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	51.2		33.2		75.9	197.4		1953	13.5		1875	120
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	14		8		11	18		*1938	5		1939	120
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	9.8	1	12.0	3		133.6	12	1914				120
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE												
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	9.8	1	12.0	3		133.6	12	1914				120
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	2.7	18	5.5	3		17.8	16	1968				39
10 MINUTES	3.7	18	7.0	3		24.6	16	1968				39
15 MINUTES	4.3	18	7.7	3		35.3	16	1968				35
30 MINUTES	4.7	18	8.6	3		39.4	16	1968				39
60 MINUTES	5.8	18	9.8	3		39.4	16	1968				39
24 CONSECUTIVE HOURS HEURES CONSECUTIVES	9.8	1	12.0	3		133.6	12	1914				120
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	17.9		13.0		16.0	20.9		1952	10.9		1972	71
MAXIMUM SPEED (2 min. mean) (km/h) VITESSE MAXIMALE (moyenne sur 2 min.) (km/h)	E 59	18	ESE37	6		NW 68	10	1946				53
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	WNW109	18	ESE56	6		SSW127	14	1959				45
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	317.6		332.6		315.6	367.7		1974	178.3		1912	110
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE À LA STATION (kPa)	98.43		98.67		98.47	98.70		1956	98.20		1975	53
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE À LA STATION (kPa)	99.50	26	100.30	12		100.30	12	1990				53
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE À LA STATION (kPa)	96.82	2	96.81	3					96.27	5	1986	53

CLIMATOLOGICAL DATA THIS MONTH FOR THE PAST **TEN / DIX** YEARS **(10)**  
DONNÉES CLIMATOLOGIQUES CE MOIS-CI POUR LES DERNIÈRES ANNÉES

YEAR ANNÉE	MAXIMUM TEMP MAXIMALE	MINIMUM TEMP MINIMALE	MEAN TEMP MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECP. TOTALE	MEAN WIND SPEED VITESSE MOYENNE DES VENTS	MAXIMUM WIND SPEED VITESSE MAXIMALE DES VENTS	SUNSHINE HEURES INSOLATION	HEATING DEGREE-DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE-DAYS DEGRÉS-JOURS DE CROISSANCE	COOLING DEGREE-DAYS DEGRÉS-JOURS DE REFRIGÉRATION
1982	31.1	8.4	20.0	106.9		106.9	15.1	WNW 52	307.6	7.7	465.3	64.9
1983	33.7	5.4	22.2	29.8		29.8	14.6	NNW 41	330.3	12.0	532.9	139.7
1984	31.1	4.6	19.6	38.3		38.3	14.0	S 39	333.3	14.9	452.5	64.4
1985	32.3	7.5	18.8	34.0		34.0	12.0	S 52	357.1	19.9	426.3	43.2
1986	31.0	9.7	19.5	118.0		118.0	13.3	SSE 44	291.2	9.7	450.2	55.8
1987	33.3	9.0	20.0	130.1		130.1	13.1	ESE 39	266.8	13.8	464.5	75.3
1988	35.5	6.9	21.1	70.8		70.8	14.0	ESE 44	347.3	7.9	500.5	105.4
1989	35.9	12.7	22.1	33.4		33.4	12.3	SSE 33	342.3	0.4	529.3	126.7
1990	30.8	7.4	19.2	33.2		33.2	13.0	ESE 37	332.6	17.9	439.8	54.7
1991	31.5	8.9	19.7	51.2		51.2	17.9	E 59	317.6	9.0	456.2	62.2

Note/Arts  
 1. Climatological Day/Journée climatologique 00 01 C.S.T. - 00 00 C.S.T.  
 2. Normal/Normale 1951-1980  
 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