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MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

FEBRUARY/FEVRIER

1984

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 (NNM)		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				
	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 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			
1	-1.2	-10.3	-5.8	23.8		95	82				11	13.6	E	ESE30	0.0				
2	-2.6	-10.6	-6.6	24.6		97	85				11	15.9	S	N 24	0.1				
3	-1.0	-18.0	-9.5	27.5		97	70			0.4	11	23.8	NNW	NNW43	4.4				
4	11.0	-25.8	-18.4	36.4		88	62			1.4	11	26.6	N	NNW56	0.5				
5	-20.2	-30.1	-25.2	43.2		70	58				12	18.7	S	N 37	3.4				
6	-13.9	-22.6	-18.3	36.3		76	56				10	10.6	S	S 26	8.7				
7	-9.3	-21.8	-15.6	33.6		83	66				10	12.3	S	S 26	6.6				
8	-3.2	-13.3	-8.3	26.3		98	82		TR.	TR.	10	20.3	S	S 31	4.1				
9	2.5	-10.9	-4.2	22.2		96	74		TR.	TR.	10	16.3	S	S 31*	8.8				
10	-2.4	-11.3	-6.9	24.9		100	93				8	10.5	S	S 22	0.0				
11	-1.8	-3.7	-2.8	20.8		100	90		TR.		8	10.2	NNE	NE 17*	0.0				
12	-0.9	-4.9	-2.9	20.9		96	75			TR.	6	16.2	ENE	NNE20*	0.6				
13	0.0	-4.0	-2.0	20.0		97	85			2.0	8	11.0	S	S 22	0.1				
14	2.0	-1.0	0.5	17.5		90	80				8	11.0	WNW	WNW22	1.2				
15	1.8	-2.3	-0.3	18.3		100	87		4.0	0.8	7	12.4	ESE	SE 22	0.0				
16	1.2	-0.9	0.2	17.8		96	89		TR.	TR.	6	19.8	N	N 28*	0.0				
17	0.0	-2.4	-1.2	19.2		99	84			0.2	5	21.5	NNW	NW 26*	0.0				
18	-1.6	-9.0	-5.3	23.3		95	77				5	9.7	N	N 15*	1.6				
19	3.4	-13.3	-5.0	23.0		99	64				4	11.4	S	W 20	7.2				
20	1.2	-9.1	-4.0	22.0		90	67				4	12.3	S,W	S 22	8.5				
21	5.4	-2.6	1.4	16.6		96	77				4	15.1	S	S 22*	8.7				
22	3.6	-1.0	1.3	16.7		97	76				3	14.9	NW	N 26	2.6				
23	0.0	-6.5	-3.3	21.3		92	70			TR.	3	17.6	NNW	N 24*	0.0				
24	-6.2	-14.0	-10.1	28.1		88	69			TR.	3	14.0	NNE	NNE20*	9.9				
25	-4.0	-18.6	-11.3	29.3		90	49				3	5.2	NSE CALM	WNW 9*	9.2				
26	-1.6	-13.4	-7.5	25.5		87	63				3	12.8	S	S 19	9.4				
27	-2.7	-8.9	-5.8	23.8		91	81		TR.	TR.	3	14.0	SSW	NNE28	3.6				
28	-4.5	-12.7	-8.6	26.6		90	72		TR.	TR.	2	15.8	N	N 24	9.9				
29	-4.3	-14.9	-9.6	27.6		88	57				2	13.0	SE	ESE19*	2.8				
30																			
31																			
MEAN MOYENNE	-2.5	-11.0	-6.8	717.1	0.0	92	74	0	4.0	4.8	8.0	14.7	PREVAILING S DOMINANTE	MAXIMUM NNW56	TOTAL 111.9				
NORMAL NORMALE	-10.1	-21.0	-15.6	948.6	0.0	90	70	0.0	0.7	18.9	17.5	23	18.1	S	57	144.2			
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÉS-JOURS										DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES:					DAYS WITH SNOWFALL: JOURS AVEC CHÛTE 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	mm					cm						
								0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE	0.2 OR MORE	1.0 OR MORE	2.0 OR MORE	10.0 OR MORE	50.0 OR MORE		
TOTAL FOR MONTH TOTAL DU MOIS	717.1	798.6	948.6	TOTAL FOR MONTH TOTAL DU MOIS	0.0	0.0	0.0												
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	4158.5	3958.5	4383.2	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1906.2	1706.4	1787.8	5	3	1			5	2	1				

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

Canada

This February with a mean of -6.8°C was second only to the -5.1°C set in 1878. There were 11 days with temperatures of zero or above with the warmest day reaching $+5.4^{\circ}\text{C}$ which was on the 21st. Meanwhile precipitation fell on 5 days totalling 8.0 mm. Of this total 4.0 mm was rain making this the fourth rainiest February on record. The 4.8 cm of snow was the sixth lowest amount on record and the least since 1935. There was 111.9 hours of sunshine, 78 percent of the usual 144.2 hours.

DAILY WEATHER SUMMARY FOR FEBRUARY, 1984

AT WINNIPEG, MANITOBA

1. Above normal temperatures. Clear skies overnight becoming cloudy early in the morning with light winds. Snow 10:31 AM to 5:44 P.M.
2. Cloudy, brisk northwest winds, above normal temperatures and a few flurries. Snow 3:11 AM to 5:13 AM; 7:43 AM to 8:19 AM; 9:40 AM to 10:10 AM; 10:47 AM to 11:15 AM; 2:04 PM to 4:10 PM; 10:54 PM to 11:50 PM.
3. Cloudy with snow under a strong northerly flow of arctic air. Minimum temperatures dropping to near normal values. Snow 3:50 AM to 6:12 PM; blowing snow 10:16 AM to 10:19 AM; 5:56 PM to 6:12 PM.
4. A few clear periods overnight but cloudy for most of the day. Heavier snow and reduced visibility, starting early in the morning under light winds. Winds becoming strong and gusty as a blizzard commenced in the early afternoon reducing visibility to zero and stopping all highway travel completely and causing numerous multi-vehicle accidents on the perimeter highway, leaving many vehicles snow bound and in the ditches. There were no fatalities. Snow 4:21 AM to 2:50 PM. Blowing snow 1:19 PM and continuing after midnight.
5. Clear overnight becoming cloudy during the day with the blowing snow ending at 1:08 AM as the winds dropped into the light range and the blizzard comes to an end. Though lasting only approximately 12 hours many roads and highways were still blocked due to drifts and stranded vehicles. Temperatures slipped well below normal values under the burst of arctic air.
6. Relatively clear skies with light winds and temperatures hovering near the normal mark,
7. Early morning cloudy periods with light southerly winds. Maximum temperatures rising above the normal values.
8. Southerly winds continue as temperatures continue to rise above the normal values. Skies become cloudy and fog reduces visibility to less than one kilometer. Some evening occurrences of freezing drizzle 10:26 PM and continuing after midnight.
9. Temperatures continue to be very mild, cloudy overnight with fog and freezing drizzle. Freezing drizzle ends at 1:52 AM. Sunny during the day however the fog returned to lower visibilities to zero during the evening.
10. The fog which rolled in during the previous evening will persist for the next 36 hours. Light southerly winds, mild temperatures and no sunshine. Winnipeg Jets NHL hockey game postponed as the aircraft transporting the Quebec Nordiques failed to land after 4 attempts due to the low visibility in fog.
11. The fog finally lifted by mid-afternoon. Temperatures remain well above the normal values under a very light northerly flow of air. Some freezing drizzle occurred from 9:16 AM to 10:31 AM.
12. The unseasonably mild weather continues under still cloudy skies. The winds remain light with snow starting at 11:27 PM and continuing after midnight.
13. Cloudy skies, light winds with the snow ending at 5:07 PM. It still continues to be very mild.
14. The cloudy skies continues to persist along with the mild temperatures and light winds. There was no precipitation.
15. Cloudy skies with mild temperatures, rain, snow, ice pellets and freezing rain. Rain started at 9:33 AM and continued after midnight. Snow 6:45 AM to 8:42 AM; 4:35 PM to 4:41 PM; 6:11 PM to 6:17 PM, 6:35 to 6:48; ice pellets 8:35 AM to 8:42 AM; freezing rain 7:57 AM to 10:20 AM; drizzle 3:10 PM to 4:43 PM.
16. More of the same, mild, cloudy and light wind conditions. Rain ends at 00:15 AM. Freezing rain at 7:26 PM to 8:16 PM. Snow starting at 7:31 PM and continuing. Winnipeg has seen the sun for only 1 hour and 54 minutes during the past 7 days.
17. Continuing cloudy, no sunshine and temperatures remain well above normal for this time of the year. Snow ends at 6:16 AM.
18. Above normal temperatures continue under mostly cloudy conditions. The sun finally appears in the late afternoon as Winnipeg receives 1 hour and 36 minutes of sunshine.
19. Temperatures continue well above normal. Fog reduces visibility to near zero overnight and until mid morning. Light southerly winds.
20. Once again under light winds the mild weather continues. Daily maximum temperatures have been above normal for 14 consecutive days now.
21. Partly cloudy skies, brisk southerly winds and day 15 in a row for above normal temperatures as maximum reach 5.4°C , the warmest day so far this month.
22. Mostly cloudy skies with light winds as the temperatures continue well above normal. Unless there are some cold days this will be one of the warmest Februarys on record.
23. Cloudy with a few flurries and once again continuing mild. Snow 7:10 AM to 10:43 AM; 5:31 PM to 5:47 PM, 8:49 PM and continuing after midnight.
24. Cloudy overnight with snow. Clearing in the early morning with light northerly winds. The mild spell continues into day 18. Snow ending at 3:11 AM.
25. Sunny skies, brisk south east wind. Minimum temperatures slipped below normal but the daily maximum was still above normal.
26. Sunny with south winds as the above normal temperatures continue.
27. Becoming cloudy during the afternoon with a few flurries. Snow 10:47 AM-11:07 AM; 11:42 AM to 5:25 PM.
28. Cloudy overnight however becoming sunny early in the morning. Light northerly winds and continuing mild although temperatures slipped a little closer to normal values.
29. February's extra day this year was mild as the maximum temperature was above normal while the low was near normal. Winds were brisk from the southeast and for the most part, the day was cloudy.

HOURLY DEWPOINT TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF FEBRUARY 1984

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.	-6.4	-7.6	-7.6	-7.2	-7.3	-11.0	-9.7	-10.5	-9.5	-8.8	-8.4	-6.5	-3.5	-4.2	-3.8	-4.0	-4.3	-4.4	-3.5	-3.3	-3.3	-3.3	-3.5	-3.8
2.	-4.3	-4.8	-5.0	-5.5	-5.7	-5.7	-5.4	-5.8	-6.2	-5.8	-6.2	-5.8	-7.2	-10.2	-9.8	-10.0	-9.6	-10.7	-10.5	-10.6	-10.5	-10.9	-9.2	-7.5
3.	-8.1	-9.8	-10.0	-9.8	-5.0	-4.3	-2.0	-1.4	-2.3	-5.1	-7.1	-6.5	-8.1	-9.2	-9.8	-10.5	-12.1	-13.2	-14.8	-15.9	-16.9	-17.5	-18.1	-19.4
4.	-22.0	-22.2	-21.9	-23.5	-21.6	-20.3	-19.6	-18.6	-17.9	-18.9	-16.0	-15.8	-15.3	-13.2	-15.1	-17.8	-19.8	-24.3	-25.2	-26.4	-27.1	-27.7	-28.7	-29.6
5.	-30.6	-31.2	-32.1	-32.7	-33.3	-33.8	-34.2	-34.7	-34.5	-34.5	-34.1	-33.3	-32.4	-31.0	-30.9	-30.3	-29.7	-29.2	-29.0	-28.9	-28.0	-27.0	-25.8	-25.2
6.	-24.4	-23.4	-23.4	-24.0	-25.0	-25.6	-26.0	-26.8	-26.3	-25.3	-25.3	-24.2	-22.1	-22.2	-21.2	-20.6	-20.4	-21.5	-21.9	-21.2	-23.1	-24.2	-22.7	-24.2
7.	-24.1	-25.4	-23.4	-23.2	-23.8	-23.0	-24.8	-22.0	-19.8	-19.1	-19.5	-17.1	-16.8	-16.1	-15.2	-14.4	-14.1	-14.3	-13.9	-13.8	-13.7	-14.0	-14.2	-14.5
8.	-14.9	-15.1	-15.0	-14.8	-14.4	-14.3	-14.1	-13.7	-13.2	-12.3	-11.6	-10.5	-9.8	-8.7	-7.3	-7.2	-6.0	-5.3	-4.8	-4.3	-4.2	-4.8	-4.5	-4.9
9.	-5.2	-5.6	-7.4	-9.5	-10.6	-10.6	-10.3	-10.5	-10.0	-9.8	-9.2	-8.0	-6.7	-5.1	-3.3	-2.0	-1.5	-1.9	-2.0	-6.2	-7.9	-9.5	-9.8	-11.5
10.	-11.2	-11.1	-11.6	-10.5	-10.6	-10.5	-9.9	-8.3	-9.4	-10.5	-10.6	-10.1	-8.6	-6.3	-5.1	-4.7	-3.6	-3.5	-3.1	-2.7	-2.7	-3.3	-3.3	-3.6
11.	-3.1	-2.6	-2.8	-2.5	-2.4	-2.2	-2.1	-1.9	-1.9	-2.2	-2.4	-2.5	-2.5	-2.4	-2.0	-2.0	-2.2	-2.5	-3.1	-3.3	-3.3	-4.3	-4.3	-4.5
12.	-4.9	-5.1	-4.9	-4.9	-4.7	-4.5	-5.1	-5.9	-5.8	-5.7	-5.8	-6.3	-6.3	-5.9	-5.6	-5.4	-5.4	-5.9	-5.3	-4.6	-4.9	-4.8	-4.1	-4.4
13.	-4.0	-3.9	-4.0	-3.6	-4.0	-4.2	-4.2	-4.2	-4.4	-4.7	-4.6	-5.1	-5.6	-2.7	-3.4	-3.5	-3.1	-3.1	-3.0	-2.8	-2.8	-2.8	-2.8	-2.4
14.	-1.7	-1.1	-1.0	-1.0	-1.7	-1.6	-1.7	-2.0	-2.7	-3.0	-3.4	-2.3	-1.8	-1.7	-1.5	-1.9	-2.2	-2.4	-2.5	-2.5	-2.3	-2.3	-2.4	-2.3
15.	-2.2	-2.5	-2.9	-2.8	-2.5	-2.5	-3.3	-3.0	-1.9	-1.9	-1.0	-0.8	-0.6	.1	.6	1.2	.9	1.1	.8	.6	.2	.2	.2	.3
16.	-4	-6	-9	-1.3	-1.4	-1.3	-1.4	-1.3	-1.1	-1.0	-1.0	-0.5	-0.6	-1.0	-1.7	-1.7	-1.7	-1.6	-1.6	-1.6	-1.3	-1.6	-1.7	-1.5
17.	-1.7	-1.6	-1.5	-1.4	-1.7	-1.9	-1.7	-1.5	-1.3	-1.1	-1.1	-1.1	-1.6	-1.7	-1.7	-2.2	-2.2	-2.0	-2.6	-2.7	-2.9	-3.5	-3.5	-3.8
18.	-3.9	-4.3	-4.4	-4.5	-4.5	-4.5	-4.7	-4.8	-4.7	-4.6	-5.1	-5.8	-5.6	-5.4	-5.2	-5.1	-5.2	-5.1	-7.0	-6.8	-8.0	-6.6	-7.3	-8.6
19.	-9.2	-10.5	-11.2	-12.7	-12.2	-13.2	-12.7	-13.4	-13.7	-12.7	-10.1	-7.9	-6.2	-4.2	-3.4	-3.1	-3.1	-2.7	-2.7	-3.1	-2.6	-2.8	-4.1	-4.5
20.	-5.2	-5.8	-6.2	-6.5	-7.2	-7.1	-8.1	-9.2	-9.8	-9.1	-8.1	-6.9	-5.5	-4.2	-4.8	-4.3	-4.8	-4.5	-5.2	-5.9	-5.9	-5.6	-4.9	-5.1
21.	-4.3	-3.5	-3.4	-3.3	-2.9	-3.6	-3.3	-3.0	-3.0	-2.7	-2.1	-1.1	-0.6	-1.1	-1.1	1.0	1.2	1.0	.6	.3	.2	.4	0.0	-0.2
22.	-6	-1.5	-3	0.0	0.0	0.0	-0.3	-1.0	-0.9	-0.2	.2	.4	.1	-3	-4	-2	-1	-3	-8	-8	-1.3	-1.3	-1.0	-1.0
23.	-1.4	-2.2	-2.8	-3.4	-4.3	-5.2	-5.2	-5.8	-5.8	-5.8	-5.8	-6.0	-6.1	-6.3	-6.4	-6.1	-7.5	-8.2	-8.6	-8.6	-8.6	-9.0	-8.4	-10.5
24.	-10.6	-11.4	-12.5	-12.0	-12.8	-12.6	-12.5	-13.2	-14.0	-14.0	-13.2	-12.5	-11.7	-11.7	-12.3	-11.8	-12.4	-13.0	-13.3	-13.7	-14.8	-15.2	-15.6	-15.6
25.	-16.2	-16.1	-16.9	-18.6	-18.1	-18.7	-19.8	-22.0	-17.6	-13.8	-13.2	-13.4	-13.3	-14.0	-13.8	-13.2	-13.8	-14.3	-12.0	-12.2	-13.2	-13.2	-14.8	-13.5
26.	-14.1	-14.7	-14.8	-15.0	-15.3	-15.6	-15.1	-15.2	-15.6	-12.9	-11.8	-11.1	-9.8	-8.6	-7.9	-7.0	-6.4	-7.6	-8.9	-9.1	-9.2	-9.2	-9.1	-9.4
27.	-9.8	-9.9	-9.0	-9.3	-9.3	-9.3	-9.3	-10.4	-9.6	-7.9	-6.9	-6.0	-6.0	-5.1	-5.2	-5.6	-5.8	-5.6	-5.7	-5.7	-5.0	-5.4	-5.9	-6.8
28.	-7.3	-8.0	-8.0	-8.1	-8.6	-9.4	-10.4	-11.9	-12.4	-12.2	-12.1	-11.1	-9.6	-9.0	-9.8	-9.2	-9.3	-10.0	-10.5	-12.4	-13.5	-14.4	-15.1	-15.1
29.	-15.0	-15.7	-16.0	-16.7	-15.2	-15.3	-15.5	-15.3	-14.4	-13.7	-13.6	-13.2	-12.2	-10.8	-10.3	-11.0	-10.9	-11.4	-11.4	-12.2	-11.7	-11.7	-11.8	-13.4
MEAN	-9.1	-9.5	-9.6	-9.8	-9.7	-10.0	-10.0	-10.0	-9.9	-9.6	-9.2	-8.6	-8.0	-7.5	-7.3	-7.2	-7.3	-7.7	-7.9	-8.2	-8.5	-8.7	-8.8	-9.1

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	-6.0	-7.6	-9.8	-21.1	-31.0	-23.5	-18.2	-9.7	-7.2	-2.6	-5.1	-3.4	-1.9	-1.9	-0.8	-1.1

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

MEAN DAILY DEWPOINT BASED ON HOURLY READINGS

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29
MEAN	-1.9	-5.4	-7.5	-6.1	-1.2	-4	-6.1	-13.0	-15.1	-11.3	-7.3	-10.6	-13.2

16	WNW	WNW	WNW	NW	ENE	NNE	N	N	7	22	24	24	28	28	28	28	N	N	24	24	24	26	24	20	1559
	13	15	17	11	15	7	9	19	11	7	22	24	24	28	28	28	N	N	24	24	24	26	24	20	41
17	N	N	NNW	NNW	NW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	0553
	24	22	20	20	24	26	26	26	24	22	22	19	22	20	22	24	20	17	22	22	17	20	17	17	33
18	NW	NNW	NNW	N	NNW	NNW	N	N	NNW	NNW	N	N	N	NNE	N	N	NW	N	ENE	WSW	SSE	SSE	SSK		
	11	15	13	7	13	9	11	11	9	11	9	15	13	13	11	13	7	6	7	4	7	6	6		
19	SW	SSW	C	S	S	S	S	S	S	S	S	SSW	SSW	W	W	WSW	WSW	WSW	W	W	W	W	W		
	7	4	0	6	7	11	11	7	11	9	11	11	13	11	9	15	15	17	15	13	17	17	20		
20	W	W	W	WNW	WNW	W	WNW	WNW	WNW	C	C	N	C	SW	SSW	SSW	SSE	S	SSE	S	S	S	S		
	19	17	19	17	17	17	9	9	9	4	0	0	4	0	7	15	11	9	17	20	20	22	19	2217	
21	S	S	S	S	S	S	S	S	S	S	S	SSW	S	S	SSW	SSW	S	S	SSW	S	S	S	SSW		
	22	19	20	22	19	19	20	17	17	15	11	13	17	17	13	17	13	9	9	11	9	9	7		
22	SW	WSW	WSW	W	WNW	NW	WNW	WNW	WNW	NW	NNW	NW	NNW	NW	NNW	NW	NW	NNW	NNW	N	N	N	NNW		
	9	7	13	13	19	19	11	15	15	15	9	15	13	13	13	17	15	13	17	19	26	19	19	2041	
23	NNW	N	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NNE	NNE	NNE	NNE		
	24	24	17	22	17	13	9	17	19	20	19	20	17	13	19	15	17	19	17	15	17	17	15		
24	NNE	NNE	NNE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	N	NNE	NNE		
	20	17	20	19	15	15	15	15	13	20	15	13	11	13	15	17	15	17	11	11	9	6	7		
25	NNE	NNE	N	E	NW	N	N	C	SE	SE	SE	SE	SSE	S	SSE	SE	C	WNW	N	C	C	C	S		
	9	6	7	7	6	6	7	6	0	6	6	7	9	7	4	7	6	0	9	6	0	0	4		
26	S	SSE	S	S	SSW	SSW	S	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
	6	7	7	6	11	9	11	15	9	13	17	17	13	17	19	17	15	15	17	15	13	13	13		
27	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	W	NNW	NNE	N	NNE	NNE	N	NNE	N	NNW	N	N	NNE		
	11	11	11	13	11	11	9	9	6	6	4	13	13	13	17	15	20	17	19	11	19	26	28	2107	
28	NNE	N	N	N	N	N	N	N	NNE	NNE	N	N	N	NNE	NNE	N	NNE	N	N	NNE	N	NNE	NNE		
	22	19	20	22	22	24	19	17	19	19	13	11	15	17	19	20	19	17	11	6	9	6	7		
29	NNE	N	NNE	NE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SE	ESE		
	6	7	7	4	6	9	9	11	11	13	17	17	15	17	15	17	19	19	17	15	13	15	15	19	

MEAN 15.2 14.9 14.9 14.9 12.8 12.9 13.2 13.4 14.6 15.7 16.7 14.6 16.0 15.2
14.9 14.0 13.9 13.7 13.2 13.0 14.3 16.6 15.0 15.3 16.1 16.1