



Environment Canada / Environnement Canada

Atmospheric Environment Service / Service de l'environnement atmosphérique

# MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

JUNE/JUIN

19 83

AT/À 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 (NMM)			STANDARD TIME USED: CENTRAL HEURE NORMALE UTILISÉE: CENTRAL										
DATE	TEMPERATURE TEMPÉRATURE			DEGREE-DAYS DEGRÈS-JOURS		REL. HUMIDITY HUMIDITÉ REL.		THUNDERSTORM ORAGE	PRECIPITATION PRÉCIPITATIONS			SNOW ON GROUND NEIGE AU SOL	WIND VENT			BRIGHT SUNSHINE INSOLATION EFFECTIVE			
	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		BRIGHT SUNSHINE INSOLATION EFFECTIVE		
	°C	°C	°C	BASE 18.0°C	BASE 5.0°C	%	%	mm	cm	mm	cm	km/h	km/h	HOURS HEURES					
1	21.8	3.2	12.5	5.5	7.5	92	26					4.5	CALM	ESE17	11.1				
2	20.6	11.0	15.8	2.2	10.8	96	52	1	6.6	6.6		18.7	SE, ESE	E35	3.7				
3	19.2	9.4	14.3	3.7	9.3	98	49		0.4	0.4		17.1	W	W26	9.7				
4	13.3	3.3	8.3	9.7	3.3	95	50		T	T		24.6	N	N41	2.1				
5	19.0	0.8	9.9	8.1	4.9	87	28					20.0	WNW	NW33	12.6				
6	22.5	4.9	13.7	4.3	8.7	86	25					21.9	W NW	NW37*	14.9				
7	24.8	1.8	13.3	4.7	8.3	74	26					11.8	SE	SE20*	12.4				
8	18.9	7.9	13.4	4.6	8.4	96	48		2.2	2.2		18.2	NNW	NW39	11.5				
9	27.0	6.3	16.7	1.3	11.7	92	33					20.7	SE	SE33*	14.1				
10	32.2	15.1	23.7	0.0	18.7	67	33		T	T		27.7	SSE	SSE41	13.3				
11	32.2	18.2	25.2	0.0	20.2	85	36					28.3	S	SSE43	14.5				
12	25.9	18.5	22.2	0.0	17.2	93	61		T	T		27.2	SSE	SSE41	2.0				
13	20.0	12.8	16.4	1.6	11.4	100	77	1	21.6	21.6		15.5	W	W26*	0.4				
14	24.0	10.4	17.2	0.8	12.2	100	41					12.5	S	WNW28	9.2				
15	12.4	7.6	10.0	8.0	5.0	95	60		9.5	9.5		22.6	NW	NW33*	0.0				
16	20.1	4.0	12.1	5.9	7.1	97	42					5.6	CALM	NE17	15.3				
17	24.0	10.1	17.1	0.9	12.1	77	32					11.5	S	SSE19	15.4				
18	25.5	10.6	18.1	0.0	13.1	82	25					18.4	SE	SE30*	13.5				
19	24.2	17.1	20.7	0.0	15.7	88	56	1	1.6	1.6		23.5	SSE	SSE35	1.7				
20	25.9	17.5	21.7	0.0	16.7	96	64	1	24.4	24.4		10.9	S	SSW33	4.6				
21	27.3	13.9	20.6	0.0	15.6	98	51	1	7.8	7.8		5.8	CALM	ENE15	6.0				
22	24.5	13.9	19.2	0.0	14.2	98	56	1	44.5	44.5		16.4	W	WNW33	10.4				
23	26.3	12.7	19.5	0.0	14.5	96	54		0.2	0.2		4.8	SE, W	S15	12.8				
24	28.4	16.4	22.4	0.0	17.4	76	49		T	T		18.5	CALM	ESE31	8.7				
25	26.3	19.2	22.8	0.0	17.8	91	69	1	9.6	9.6		15.5	W, WNW	SSE28*	7.6				
26	23.8	11.9	17.9	0.1	12.9	89	55					21.5	W	NNE37*	12.8				
27	23.0	9.2	16.1	1.9	11.1	90	48					8.5	NNE	NNE17*	12.9				
28	25.0	9.2	17.1	0.9	12.1	95	39					5.4	SE, CALM	SE13*	14.5				
29	23.3	12.5	17.9	0.1	12.9	96	53		6.8	6.8		12.9	E, SE	E30	5.2				
30	18.9	14.4	16.7	1.3	11.7	98	84		4.0	4.0		7.9	NW	NW22	0.0				
31																			
MEAN MOYENNE	23.3	10.8	17.1	TOTAL 65.6	TOTAL 362.5	91	47	TOTAL 7	TOTAL 139.2	TOTAL 139.2		16.0	PREVAILING DOMINANTE SSE	MAXIMUM SSE43	TOTAL 272.9				
NORMAL NORMALE	*23.1	10.5*	16.8*	69.9*	354.3*	86	45	5.3	80.1*	TR.*	80.1*	18.1*	S	57	276.1*				
DEGREE-DAY SUMMARY - SOMMAIRE DE DEGRÈS-JOURS										DAYS WITH TOTAL PRECIPITATION: JOURS AVEC PRÉCIPITATIONS TOTALES: mm					DAYS WITH SNOWFALL: JOURS AVEC CHÛTE DE NEIGE: cm				
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	0.2 OR MORE - OU PLUS	1.0 OR MORE - OU PLUS	2.0 OR MORE - OU PLUS	10.0 OR MORE - OU PLUS	50.0 OR MORE - OU PLUS	0.2 OR MORE - OU PLUS	1.0 OR MORE - OU PLUS	2.0 OR MORE - OU PLUS	10.0 OR MORE - OU PLUS	50.0 OR MORE - OU PLUS		
TOTAL FOR MONTH TOTAL DU MOIS	65.6	135.9	69.9*	TOTAL FOR MONTH TOTAL DU MOIS	362.5	257.6	354.3*	13	11	10	3	0	0	0	0	0	0		
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> JUILLET	5472.0	5843.3	5923.1*	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 <sup>er</sup> AVRIL	526.1	590.6	608.1*												

UDC 551.506.1 (

)\* INDICATES MORE THAN ONE OCCURRENCE OF THE SAME SPEED, BUT NOT NECESSARILY THE SAME DIRECTION. NEW 30 YEAR NORMALS 1951-1981.

Subscription Price: \$1.06 monthly; \$10.60 per calendar year (January to December)  
Prix de l'abonnement: mensuel \$1.06; annuel \$10.60 (janvier à décembre)

UNOFFICIAL REPORTS OF HAIL IN WPG. JUNE 2, 20, 21, 22, 25.



June was a wet month with near normal temperatures. A total of 139.2 millimetres of rain fell compared to the June normal of 80.1 millimetres; the heaviest daily rainfall amounts were 44.5 millimetres on June 22 and 24.4 millimetres on June 20 which occurred in a 20 minute period.

The mean temperature for June was 17.1°C above the normal of 16.8°C. Maximum temperatures of 32.2°C were recorded on June 10 and 11 and a minimum temperature of 0.8°C was recorded on June 5. Sunshine was slightly below normal with 272.9 hours. The wind averaged 16.0 km/h for the month, below the normal of 18.1 km/h.

## DAILY WEATHER SUMMARY FOR JUNE, 1983

## AT WINNIPEG, MANITOBA

\*NOTE: ALL TIME CENTRAL STANDARD NOT DAYLIGHT

1. Below normal temperatures. Sunny becoming cloudy late afternoon. Light winds.
2. Above normal temperatures. Partly cloudy, thunder 11:54 AM to 2:14 PM. Showers 08:35 AM to 1:25 P.M. 3:10 PM to 7:10 PM 9:02 PM continued. Precipitation up to 17 MM in parts of city. Pea size hail reported in city. Mostly light winds but E gust to 52 Km/h in afternoon.
3. Normal temperatures. Sunny becoming cloudy early afternoon. Showers to 00:43 AM. Mostly light winds with WNW gust to 37 Km/h in afternoon. Light fog in morning.
4. Cool. Cloudy, drizzle. 6:38 AM to 6:53 AM. Showers 3:38 PM to 4:34 PM. Moderate winds with N gust to 50 Km/h in morning.
5. Still way below normal temp. Sunny becoming cloudy late morning. Moderate winds with NW gust to 57 Km/h in afternoon.
6. Below normal temperature. Sunny. Moderate winds with NW gust to 59 Km/h in afternoon.
7. Below normal temperature. Sunny. Mostly light winds but SE gust to 37 Km/h in afternoon.
8. Below normal temperature. Cloudy becoming sunny by afternoon. Rain 01:08 AM to 2:13 AM. Showers 4:44 AM to 05:00 AM. Mostly light winds but NNW gust to 54 Km/h in afternoon. Hail reported near Ethelbert, Man.
9. Above normal temperature. Mostly sunny. Moderate wind with S gust to 46 Km/h in afternoon. (Pea size hail at Ethelbert covered ground to 7 cm.
10. Warm. Mostly sunny. Showers 04:21 AM to 04:38 AM. Moderate winds with SSE gust to 59 Km/h in morning.
11. Still warm. Sunny. Moderate winds with SSE gust to 65 Km/h in evening.
12. Still well above normal temperatures. Mostly cloudy. Showers 06:28 to 00:24 AM. 1:06 PM to 2:14 PM. Moderate winds with SSE gust to 56 Km/h in evening. Light haze and fog in morning. Possible funnel cloud at Anola. 4 Quonset huts full of grain at Langruth, Man. lifted off concrete mooring and moved 50 feet.
13. Near normal temperatures. Cloudy. Thunder 00:28 AM to 01:01 AM. Showers sometimes heavy 00:04 AM to 5:27 AM. Drizzle 04:33 AM to 05:04 AM, 1:09 PM to 1:25 P.M. Rain 05:27 AM to 07:07 AM. Shower 07:07 AM to 07:32 AM. Rain 07:32 to 10:10 AM. Shower 11:06 AM to 12:12 PM. 1:42 PM to 1:51 PM. Mostly light winds but W gust to 43 Km/h in afternoon. Fog in morning and afternoon. Visibility restricted.
14. Near normal temperature. Partly cloudy. Mostly light winds but WNW gust to 48 Km/h late afternoon. Smoke over city and ground fog in morning.
15. Below normal temperatures. Cloudy. Showers 2:18 AM to 3:12 AM. Rain 3:12 AM to 10:42 AM. 3:38 PM to 5:28 PM. Moderate winds with NW gust to 46 Km/h in morning. Light fog in morning.
16. Below normal temperature. Mostly sunny. Light winds.
17. Slightly below normal temperature. Mostly sunny. Light winds.
18. Slightly above normal temperature. Mostly sunny. Mostly light winds but SE gust to 50 Km/h in afternoon.
19. Above normal temperature. Cloudy. Showers 4:24 AM to 4:33 AM. 11:10 PM to 11:52 PM. Thunder 10:16 PM continued. Moderate winds with S gust to 50 Km/h late evening. Hail at Birtle. Heavy precipitation near Carman and Grass River. Wind damage at Dugald.
20. Warm. Partly cloudy. Thunder to 00:09 AM to 4:20 PM to 5:45 PM. Showers 6:16 AM to 10:30 AM. 2:11 PM to 9:51 PM. Light fog in morning. Visibility restricted in heavy thundershower late afternoon. Severe thunderstorms in South Manitoba in late afternoon. Possible tornados near Tyndall. 2 feet trees uprooted. Funnel clouds sighted near Selkirk. Golf ball hail at Somerset. Hail at Miami and Starbuck. Power outages. Trailers overturn at Birds Hill Park. Roofs damaged in Winnipeg. Mostly light winds but W gust to 69 Km/h during storm late afternoon in Wpg. Unofficial reports of hail in Winnipeg.
21. Warm. Partly cloudy. Thunder 7:15 PM to 8:16 PM. 11:11 PM continued. Showers 4:08 PM to 4:18 PM. 7:28 PM to 9:18 PM 11:06 PM continued. Fog in morning and afternoon. Visibility restricted. Unofficial reports of hail in Wpg. Mostly light winds but ESE gust to 35 late evening.
22. Above normal temperature. Partly cloudy. Thunder to 01:27 AM. 2:33 AM to 3:42 AM. Showers to 5:06 AM. Drizzle 6:51 AM to 8:35 AM. Rain 8:55 A.M. to 9:05 AM. Basements, streets, fields flooded. Up to 86 mm. precipitation in parts of city. Unofficial reports of hail in Winnipeg and Dauphin.
23. Above normal temperature. Sunny becoming cloudy late in afternoon. Showers 4:33 PM to 5:28 PM. Light winds.
24. Warm. Partly cloudy. Showers 2:05 PM to 3:36 PM. Mostly light winds, but ESE gust to 57 Km/h in late evening.
25. Warm. Partly cloudy. Thunder 2:53 AM to 5:35 AM. Showers sometimes heavy 3:00 AM to 4:55 AM. Precipitation variable in city. Very heavy precipitation in Southern Manitoba especially 5 miles North of North Dauphin. 106 mm. Magnet 110 mm. Light fog in morning. Visibility restricted. Mostly light winds but S gust to 61 Km/h in morning in Winnipeg. Unofficial reports of hail in Winnipeg.
26. Slightly below normal temperature. Mostly sunny. Moderate winds with N gust to 46 Km/h in afternoon.
27. Below normal temperature. Mostly sunny. Light winds.
28. Below normal temperature. Mostly sunny. Light winds.
29. Below normal temperature. Mostly cloudy. Showers 12:20 PM to 6:12 PM. Rain 6:12 PM continued. Mostly light winds but ESE gust to 37 Km/h late afternoon.
30. Below normal temperature. Cloudy. Rain to 00:19 AM - 2:50 AM to 6:15 AM. 9:50 AM to 10:13 AM - 3:16 PM to 3:42 PM. Drizzle 00:19 AM to 3:17 AM. 8:15 AM to 8:32 AM - 10:24 AM to 3:16 PM - 3:42 PM continued. Rain 11:27 PM continued. Light winds. Fog in early morning, late afternoon and evening. Visibility restricted.

HOURLY DEWPOINT TEMPERATURES AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JUNE  
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.	2.2	1.2	1.1	1.5	3.0	1.8	5.4	5.7	6.7	4.7	2.4	1.0	.3	2.1	2.0	1.2	-2.2	.7	.8	-1	3.2	2.9	3.9	4.7
2.	4.7	4.1	4.6	5.0	4.9	5.3	6.5	7.1	8.4	10.1	11.8	9.8	12.6	10.3	12.5	11.7	10.8	12.0	11.0	12.0	10.8	10.0	10.8	11.0
3.	11.3	11.4	11.4	11.4	11.2	9.6	7.8	9.8	10.0	10.4	8.3	7.1	7.9	6.6	6.2	6.4	7.0	6.6	6.6	7.0	8.5	8.6	8.7	9.5
4.	9.8	10.4	9.8	10.0	9.2	8.1	7.4	7.1	6.6	6.0	6.1	6.1	6.2	5.3	4.9	5.5	7.0	2.4	4.2	2.1	3.4	1.1	1.4	1.3
5.	.3	-3.3	-6	-2.0	-1.1	-1.6	-1.1	.2	2.2	2.5	-5	-1.4	-2.0	-1.8	-7	-1.5	-1.1	-1.4	-1.1	-6	0.0	.2	.6	.4
6.	2.1	2.8	3.3	4.9	3.3	3.1	3.8	4.0	6.0	4.8	4.0	3.2	3.5	1.5	3.1	.6	.6	2.0	-5	-7	-2.6	-2.1	-2.1	-2.1
7.	-3.6	-2.7	-3.0	-3.4	-2.9	-2.3	1.9	1.5	2.3	2.1	1.1	1.8	1.6	2.8	3.3	3.7	3.4	4.0	4.3	4.4	4.1	3.9	4.4	4.0
8.	6.1	5.4	9.8	10.5	9.8	9.6	11.7	10.2	10.1	10.3	9.2	8.8	8.6	8.6	9.0	8.4	6.6	6.0	6.8	7.6	7.4	7.6	6.9	6.3
9.	5.8	6.3	6.7	6.8	4.9	6.1	6.0	7.1	8.2	8.7	7.5	8.2	7.9	8.3	8.1	8.5	9.2	8.3	8.7	8.6	8.4	8.7	8.8	8.1
10	8.2	8.1	8.1	8.1	7.7	9.8	9.8	10.0	9.8	10.4	11.4	11.4	12.2	13.0	13.1	13.2	13.0	13.6	14.5	14.9	15.6	16.1	16.9	16.1
11	16.0	15.6	15.6	15.7	15.5	15.4	15.8	16.1	16.1	16.4	15.9	16.0	14.8	14.6	15.3	15.2	15.2	14.8	15.0	15.4	14.9	14.7	15.6	16.0
12	14.9	14.2	14.2	15.0	15.2	15.4	16.4	17.9	17.7	18.0	17.8	17.4	18.4	19.1	18.8	18.8	18.8	19.2	18.8	18.2	18.3	17.8	17.9	18.2
13	18.0	19.0	18.6	16.0	15.4	15.0	14.4	14.0	14.3	13.4	13.4	13.4	14.3	13.6	13.5	13.5	13.0	12.1	11.8	11.6	11.8	12.2	12.2	12.6
14	12.2	11.0	10.4	11.3	11.0	11.5	12.1	12.7	12.3	12.7	13.0	13.4	11.5	12.1	9.2	9.8	9.8	8.6	10.8	10.0	10.8	10.3	10.3	11.4
15	9.8	9.0	7.4	8.0	9.2	7.2	7.0	7.2	6.8	6.2	6.4	7.4	6.8	6.1	6.4	6.6	6.8	7.5	6.9	4.4	4.7	6.8	7.1	5.4
16	5.1	5.7	3.9	4.5	4.5	-1	1.5	1.2	1.9	2.7	2.4	2.3	7.9	7.0	7.3	7.9	7.5	7.5	6.5	7.6	9.4	9.5	8.2	8.1
17	6.5	6.1	5.5	5.7	5.8	6.1	6.5	8.1	8.6	9.3	8.3	8.7	9.0	8.6	8.3	6.1	6.3	6.0	6.0	6.0	6.8	7.4	7.8	7.1
18	7.0	7.4	7.4	7.6	7.4	8.0	8.7	9.2	9.5	10.3	9.4	8.6	10.0	10.0	9.2	7.6	7.5	3.3	3.6	8.0	7.8	8.8	9.2	8.6
19	9.0	9.3	9.5	9.3	9.1	9.0	9.2	9.6	9.4	9.5	14.0	14.1	15.0	14.9	15.4	15.9	16.0	16.2	16.2	16.1	16.2	16.2	15.8	16.0
20	17.4	16.8	16.6	16.3	15.6	15.3	15.3	16.0	15.8	16.7	17.2	16.6	18.2	18.7	17.9	17.6	18.2	17.0	18.7	17.5	17.6	17.5	17.3	16.5
21	16.4	16.0	15.6	14.9	14.2	13.4	15.6	15.8	16.1	17.0	16.6	17.9	17.3	16.5	15.7	18.2	17.3	17.6	14.2	15.2	14.7	15.5	17.6	18.3
22	18.6	16.3	14.9	15.1	14.9	15.1	15.2	14.7	15.0	14.7	15.6	14.9	14.3	14.0	14.4	14.8	14.7	14.0	14.8	14.8	14.3	14.9	14.2	14.0
23	13.4	12.9	12.3	12.6	11.8	8.6	9.6	11.3	11.4	11.8	12.2	12.2	15.3	15.3	15.6	15.5	16.9	15.8	15.3	14.3	14.9	14.9	15.2	13.7
24	13.4	12.6	11.7	11.1	11.4	11.0	11.9	13.0	14.2	14.9	15.6	15.5	16.0	15.4	15.1	16.7	17.1	17.0	14.8	15.5	14.9	15.2	15.2	15.6
25	16.5	18.0	18.2	18.2	19.4	18.7	18.7	19.2	19.4	19.0	18.4	18.8	19.2	19.2	19.2	19.0	18.8	20.1	19.7	19.7	19.7	19.1	19.0	18.5
26	14.1	13.3	12.2	11.4	11.0	10.7	11.5	12.2	13.0	12.7	13.5	12.9	13.8	15.4	14.5	14.5	12.4	12.2	11.8	10.7	9.8	9.7	9.7	10.3
27	8.9	8.0	8.0	7.8	7.4	7.2	-7.1	7.5	8.4	9.5	10.1	11.2	12.1	11.0	11.6	11.9	10.5	10.7	11.2	11.0	11.3	10.3	10.4	11.0
28	9.9	10.1	10.3	9.6	9.1	8.6	10.6	8.2	9.8	11.0	13.0	12.2	10.6	10.8	10.5	9.5	9.4	10.3	9.1	8.6	6.8	8.8	12.6	12.7
29	12.7	10.5	9.2	8.9	9.3	9.4	9.8	11.3	10.4	11.8	11.7	12.9	11.8	11.7	11.1	12.2	14.5	14.9	15.3	13.9	14.2	13.8	14.1	14.3
30	14.3	14.6	14.7	14.3	14.2	14.3	14.5	14.4	14.6	14.6	14.5	14.8	14.8	14.6	15.2	16.0	15.6	14.8	14.3	13.7	13.7	13.8	13.7	14.0

MEAN	10.0	9.8	9.6	9.5	9.4	9.0	9.2	10.1	10.5	10.8	10.7	10.6	11.0	10.8	10.9	10.8	10.8	10.5	10.3	10.3	10.4	10.5	10.8	10.8
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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	2.4	9.1	8.7	5.9	-4	1.9	1.6	8.4	7.7	11.9	15.5	17.4	14.0	11.2	7.0	5.4

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	30
MEAN	7.2	8.1	13.0	17.0	16.2	14.9	13.5	14.4	18.9	12.0	9.2	10.1	12.1	14.5

16	NW	N	NNE	NNW	NNW	NW	C	C	W	NNW	N	NE	NNE	NNE	NE	S	SSW	WNW	C	NW	NW	C	SW
	6	6	2	2	2	2	0	0	6	13	13	17	11	11	13	2	2	6	0	6	4	0	9
17	SSW	SW	SSW	SSW	SW	SW	S	S	S	SE	SE	S	S	SE	SSE	S	S	SSE	S	S	S	S	SSE
	11	11	11	13	11	9	13	13	9	15	17	13	15	13	7	7	7	17	19	7	9	9	11
18	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE
	7	7	7	6	11	11	13	13	17	26	28	28	26	28	28	30	30	24	19	20	19	17	20
19	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE
	20	20	24	24	22	19	22	35	28	24	22	28	26	26	17	17	20	26	26	20	19	30	26
20	SSW	C	SSW	SSE	S	S	SE	SE	SSE	SSE	S	SSE	SSE	S	SE	SSW	C	SSW	C	SSW	S	S	S
	2	0	4	9	15	13	19	13	17	11	9	6	19	26	15	4	33	0	4	4	6	9	11
21	S	NNW	SE	C	C	C	S	SSE	SSE	S	E	C	ESE	ESE	SW	W	W	NNW	ENE	ENE	NNE	NE	ENE
	11	2	6	0	0	0	4	4	9	2	4	0	6	11	9	9	7	13	6	15	7	6	9
22	ESE	NNW	NNE	NE	NE	W	W	W	W	W	W	W	W	W	W	W	WSW	NW	W	WSW	WSW	W	W
	13	30	28	11	9	17	20	17	19	33	19	20	24	26	22	13	15	24	7	7	2	4	6
23	W	W	W	WNW	C	C	C	S	SE	SE	S	SE	SSE	C	S	SSW	WSW	NW	ENE	ENE	SE	E	ESE
	7	7	7	4	0	0	0	6	4	6	2	6	0	4	15	7	4	4	4	4	7	2	6
24	SE	ESE	ESE	E	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	E	E	E	ESE
	4	9	9	4	11	15	17	17	20	22	20	30	26	20	11	13	26	31	17	26	28	30	28
25	SE	SE	SSE	S	SSE	S	S	SSW	WSW	WNW	W	NNW	WNW	NW	NW	NNW	NNW	C	C	SSE	W	W	6
	26	26	28	26	20	22	20	19	15	28	22	26	19	11	11	7	13	2	0	0	4	9	6
26	WNW	W	W	W	W	W	WNW	W	WNW	W	W	WNW	WNW	NW	NNE	N	N	N	N	N	N	N	N
	35	11	11	7	11	13	15	19	11	19	20	19	26	37	37	30	28	37	33	30	24	19	11
27	NNE	NNE	NNE	NE	NE	ENE	E	ESE	C	NNE	C	NE	NNE	E	NE	C	E	N	NNE	NNE	NE	NE	NE
	17	9	7	6	9	6	13	11	4	0	6	0	11	7	11	15	0	6	17	15	13	11	7
28	NNE	C	C	C	N	N	C	SE	SE	ESE	SE	ESE	E	E	SE	SE	SE	SE	SSE	SSE	C	C	C
	4	0	0	0	4	2	0	7	7	4	13	7	6	6	13	13	9	7	7	7	0	0	0
29	C	ESE	SE	SE	SSE	SSE	SE	SE	SE	ESE	SE	ESE	ESE	SE	ENE	ESE	E	SE	E	E	E	E	E
	0	2	7	4	9	7	6	6	17	15	20	17	26	19	7	9	13	30	15	24	17	19	11
30	E	E	ESE	C	C	C	C	WSW	W	WSW	WNW	W	WSW	WNW	W	NW	NW	NW	NW	NW	WNW	NW	W
	15	7	6	0	0	0	0	2	4	4	4	4	9	15	13	15	20	22	13	11	11	11	0

MEAN 12.9 11.6 11.0 12.2 16.8 19.9 20.3 21.1 18.5 20.0 15.7 13.1  
 11.2 10.1 11.7 14.9 18.8 19.9 21.1 20.3 19.2 16.3 13.9 12.5

1543 SE 50

2331 S 50

1653 W 69

2356 ESE 35

0040 NNW 52

2331 ESE 57

0440 S 61

1343 N 46

1754 ESE 37