

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

April 2004

Station: Akron 1W Ohio
 Latitude: 41° 05' 39" N Longitude: 81° 32' 32" W Elevation (Ground): 1075 feet Time Zone: Eastern

Date	Temperature					Humidity	Dgt. Days		Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw	Snow Cvr	Precip		Pressure Adj. to Sea Level			Wind						Sun Mean Index		
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base 65			Cooling Base 65	Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg Speed	Res Speed	Res Dir	Peak			Minute	
																				Speed	Dir		Speed	Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	39	33	36.1	36.2	35	95	29	0	1.....	T	0.43	0.5	29.83	29.75	29.784	6.9	6.8	347	27	N	17	353		
2	42	35	38.3	39.0	37	93	27	0	1.....	0	0.36	0.0	29.88	29.73	29.809	4.9	4.8	355	20	N	16	6		
3	56	34	45.0	45.5	33	68	20	0	.....	0	0.05	T	29.85	29.56	29.689	4.2	4.0	282	26	N	14	300	
4	37	29	32.2*	32.2	25	77	33	0	.....	T	0.28	2.7	30.02	29.60	29.847	5.3	5.2	332	29	N	18	348	
5	39	27*	32.8	31.8	16	52	33	0	.....	0	0.00	0.0	30.15	30.02	30.109	4.8	4.7	335	24	NNW	15	344	
6	57	27	42.0	43.9	25	49	23	0	.....	0	T	0.0	30.13	29.77	29.979	2.6	2.4	238	21	SSW	13	249	
7	53	39	45.9	45.6	35	67	20	0	.2.....8.	0	0.00	0.0	29.90	29.75	29.814	2.5	2.0	359	14	NNW	11	4		
8	59	39	49.0	46.6	37	70	16	0	1.....8.	0	0.07	0.0	29.79	29.51	29.641	3.6	1.2	88	21	SSE	13	134		
9	56	39	47.5	46.2	28	52	18	0	.....	0	0.00	0.0	30.00	29.79	29.936	3.0	2.8	334	18	N	12	349	
10	54	36	45.1	44.1	25	49	20	0	.....	0	0.00	0.0	30.07	29.97	30.030	3.4	2.8	7	20	N	14	335	
11	52	37	44.5	44.0	27	52	21	0	.....	0	0.00	0.0	30.11	30.01	30.060	3.2	2.7	78	12	ESE	10	79	
12	48	35	41.5	40.9	32	73	24	0	1.....	0	0.45	0.0	30.11	29.86	30.008	4.9	4.5	65	26	E	15	88		
13	40	33	36.6	37.8	36	95	29	0	.2.4.....	0	0.56	T	29.87	29.55	29.771	5.3	5.2	9	35	NNE	21	22		
14	51	33	42.1	41.6	29	65	23	0	.....	0	0.20	0.2	30.08	29.79	29.950	5.4	5.4	348	25	NNW	15	314	
15	64	32	47.8	49.0	26	44	18	0	.....	0	0.00	0.0	30.22	30.07	30.163	1.3	0.8	60	12	ENE	9	72	
16	76	44	59.8	60.7	32	35	6	0	.....	0	0.00	0.0	30.21	30.04	30.127	3.9	3.4	185	22	SSW	14	197	
17	79	55	66.9	64.7	50	62	0	1	.3.....8.	0	0.02	0.0	30.15	30.03	30.075	3.1	2.6	220	28	S	16	218		
18	81*	58	69.6*	70.2	53	60	0	4	.....	0	0.01	0.0	30.16	29.97	30.087	4.8	4.8	212	27	S	17	204	
19	73	50	61.9	67.6	50	54	4	0	.3.....	0	0.18	0.0	30.09	29.89	29.946	7.0	5.7	227	34	SSW	19	221		
20	66	41	53.3	53.6	43	69	12	0	.....	0	0.01	0.0	30.16	29.82	30.018	2.8	1.7	84	14	S	10	10	
21	70	58	63.9	62.2	55	79	2	0	.3.....	0	0.44	0.0	29.83	29.66	29.738	5.5	5.3	200	27	SSW	17	208		
22	60	48	53.9	53.4	47	78	12	0	.....	0	0.22	0.0	30.06	29.83	29.999	2.5	1.7	25	14	N	8	18	
23	61	46	53.1	52.0	45	79	12	0	.....	0	0.01	0.0	30.14	29.99	30.056	2.4	2.3	352	12	N	9	11	
24	66	42	53.8	53.8	35	55	12	0	.....	0	0.02	0.0	30.27	29.97	30.191	2.8	2.4	52	17	N	11	11	
25	68	48	58.1	62.3	55	77	7	0	1.....	0	0.06	0.0	30.02	29.78	29.851	5.2	4.4	202	26	SW	16	198		
26	62	48	55.2	53.6	40	62	10	0	.....	0	0.01	0.0	29.97	29.82	29.881	3.3	3.0	263	21	WNW	12	247	
27	48	36	42.1	40.1	29	66	23	0	.....	0	0.07	T	30.07	29.79	29.903	3.3	3.0	306	25	SSW	15	288	
28	64	31	47.4	49.5	27	45	18	0	.....	0	0.00	0.0	30.18	30.01	30.087	4.3	4.3	193	25	SSW	16	206	
29	78	56	67.1	66.0	40	39	0	2	.....	0	0.00	0.0	30.15	30.03	30.092	4.9	4.9	210	26	SSW	15	201	
30	66	55	60.5	59.8	52	76	5	0	.....	0	0.18	0.0	30.09	29.97	30.037	2.6	2.5	193	14	ESE	8	215	
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:						---					
1765	1220					477	7	Number of Days		3.63	3.4	30.27	29.51	29.956	4.0	0.9	307	35	NNE	21	22			
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	-----	---	Date	Date	Avg					
58.8	40.7	49.8	49.8	37	64.6	----	----	≥.01 inch	20	12.41	56.2	24	8	-----	-----	---	13	13						
Number of Days								Season to Date	Snow, Ice ≥1.0 inch	1	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date							
Max Temperature				Min Temperature				5843	7	Thunder	3	Precipitation			Snow, Ice Plts									
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	2	0.76	13-14	2.7	4	T				1+								
0	0	5	0	----	----	Clear	10	Partly Cloudy	8	Cloudy	12													

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Sunshine index is measured in Watts/m² and is continuously averaged for 24 hours.
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

**OBSERVATIONS AT 3-HOUR INTERVALS
April 2004: Akron 1W, Ohio**

Hour	Wind				Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind				Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind					
	Humidity	Direction	Speed	Gust						Humidity	Direction	Speed	Gust						Humidity	Direction	Speed	Gust		
APR 01																								
01	29.82	0.03	39	38	97	33	9	16	29.76	0.03	36	35	96	33	7	12	29.84	0.00	40	38	95	31	2	5
04	29.78	0.02	38	37	96	33	7	13	29.73	0.02	37	36	96	34	5	13	29.78	0.00	37	36	96	29	3	7
07	29.80	0.01	39	37	96	00	6	17	29.76	0.02	38	37	96	34	8	14	29.78	0.00	37	35	93	27	2	5
10	29.81	0.00	37	36	97	33	12	20	29.81	0.03	40	38	94	33	4	12	29.75	0.00	49	37	64	34	3	14
13	29.78	0.00	37	35	94	34	9	20	29.84	0.00	41	38	91	33	7	20	29.67	0.00	54	36	52	29	6	12
16	29.75	0.02	33	32	94	34	5	14	29.84	0.00	42	38	87	01	8	14	29.60	0.00	55	33	44	30	6	17
19	29.76	0.02	33	32	94	32	7	12	29.87	0.00	40	38	91	34	3	10	29.57	0.00	52	21	30	28	0	2
22	29.77	0.02	34	33	95	33	3	14	29.87	0.00	40	38	95	35	1	4	29.60	0.03	40	37	87	28	8	19
APR 02																								
APR 03																								
APR 03																								
APR 04																								
APR 05																								
APR 06																								
APR 04																								
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APR 17																								
APR 18																								

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73	4.73
Ended: Date	30	30	30	30	30	30	30	30	30	30	30	30
Ended: Time	1851	1851	1851	1851	1851	1851	1851	1851	1851	1851	1851	1851

The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

OBSERVATIONS AT 3-HOUR INTERVALS

April 2004: Akron 1W, Ohio

Hour	APR 19								APR 20								APR 21									
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Wind	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Wind	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Wind		
							Speed	Gust								Speed	Gust								Speed	Gust
01	29.98	0.00	70	45	40	21	5	14	30.10	0.00	48	40	76	02	5	7	29.79	0.00	61	54	80	17	3	14		
04	29.91	0.00	69	46	43	20	11	21	30.10	0.00	42	37	81	02	5	7	29.73	0.00	59	53	81	16	3	8		
07	29.95	0.00	68	46	46	22	9	24	30.14	0.00	42	36	80	10	4	10	29.72	0.00	61	52	71	18	4	17		
10	29.95	0.00	69	50	51	21	9	22	30.11	0.00	48	39	71	02	2	7	29.71	0.00	67	53	60	19	9	18		
13	29.93	0.00	71	54	55	22	9	27	30.05	0.00	58	45	63	13	1	7	29.70	0.01	68	59	73	25	7	13		
16	29.91	0.00	72	54	52	24	6	20	29.94	0.00	65	48	54	15	5	12	29.71	0.11	61	58	92	20	7	21		
19	29.89	0.00	69	56	62	22	8	17	29.88	0.00	64	49	59	08	3	6	29.75	0.12	60	58	93	20	4	11		
22	30.04	0.00	57	48	74	34	6	12	29.85	0.01	61	55	81	16	2	7	29.80	0.00	60	57	89	20	4	16		

WEATHER NOTES

NOTES:

Units are: Temperature=°F, Wind=mph, Pressure=inches Hg, Precipitation=inches.
 Wind Direction: Directions are those from which the wind is blowing, indicated in tens of degrees from true north: i.e., 09 for East, 18 for South, 27 for West, and 00 or 36 for North.
 Wind Speed: The observed one-minute average speed in miles-per-hour.
 Wind Gust: The maximum instantaneous wind speed for the 10-minute period preceding the observation.
 Rainfall Rate: The instantaneous rainfall rate at the time of observation, calculated by timing consecutive 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

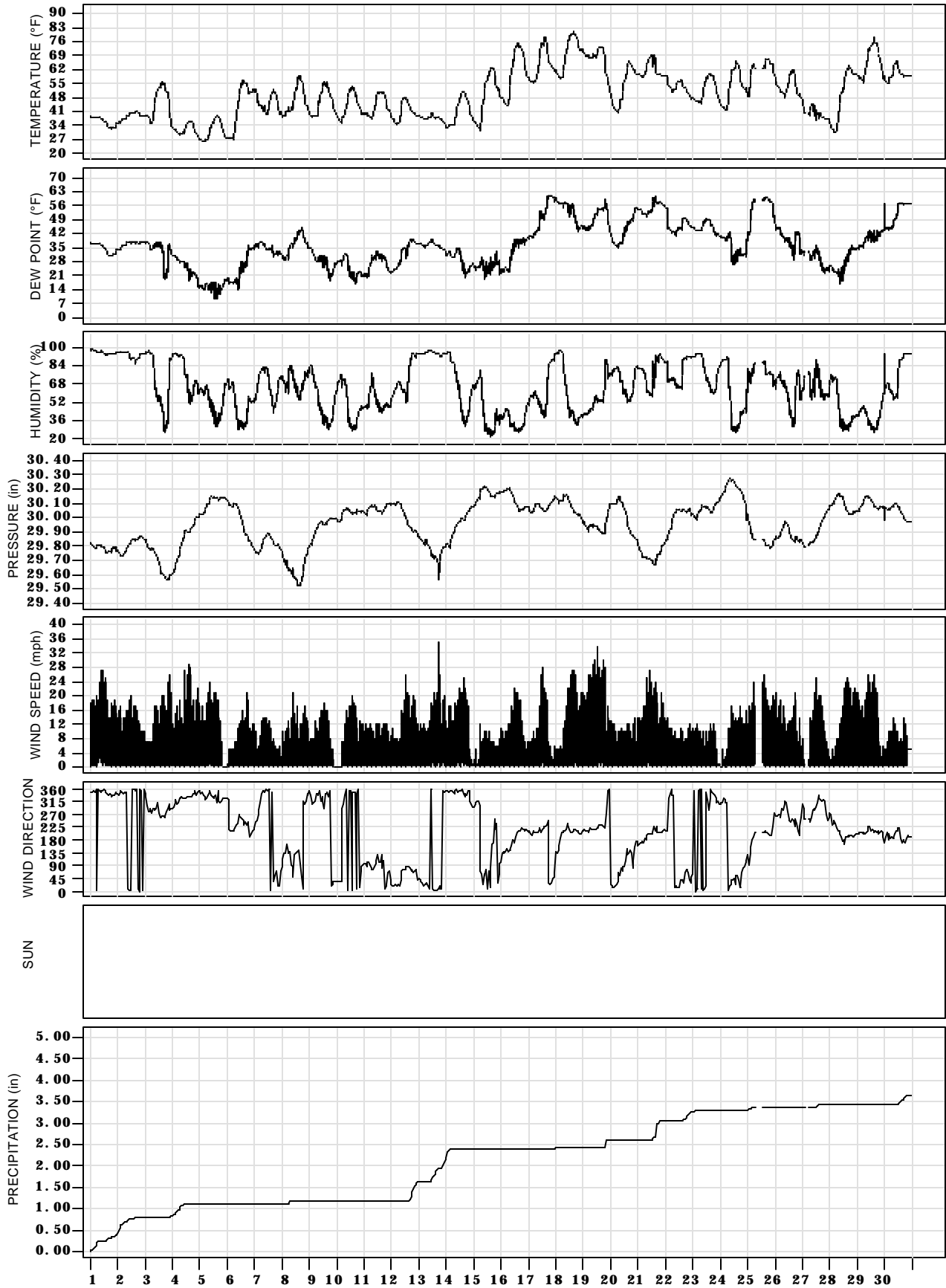
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01	29.947	45	36	73	2.8	31	0.6	
04	29.947	44	36	74	3.1	29	0.8	
07	29.988	43	35	74	3.7	33	0.7	
10	29.992	51	36	61	5.2	32	1.6	
13	29.968	55	37	54	5.6	29	2.0	
16	29.932	56	38	55	5.5	28	1.5	
19	29.933	53	37	59	3.7	31	0.7	
22	29.955	49	37	68	3.0	30	0.5	

HOURLY PRECIPITATION (Water Equivalent) April 2004: Akron 1W, Ohio

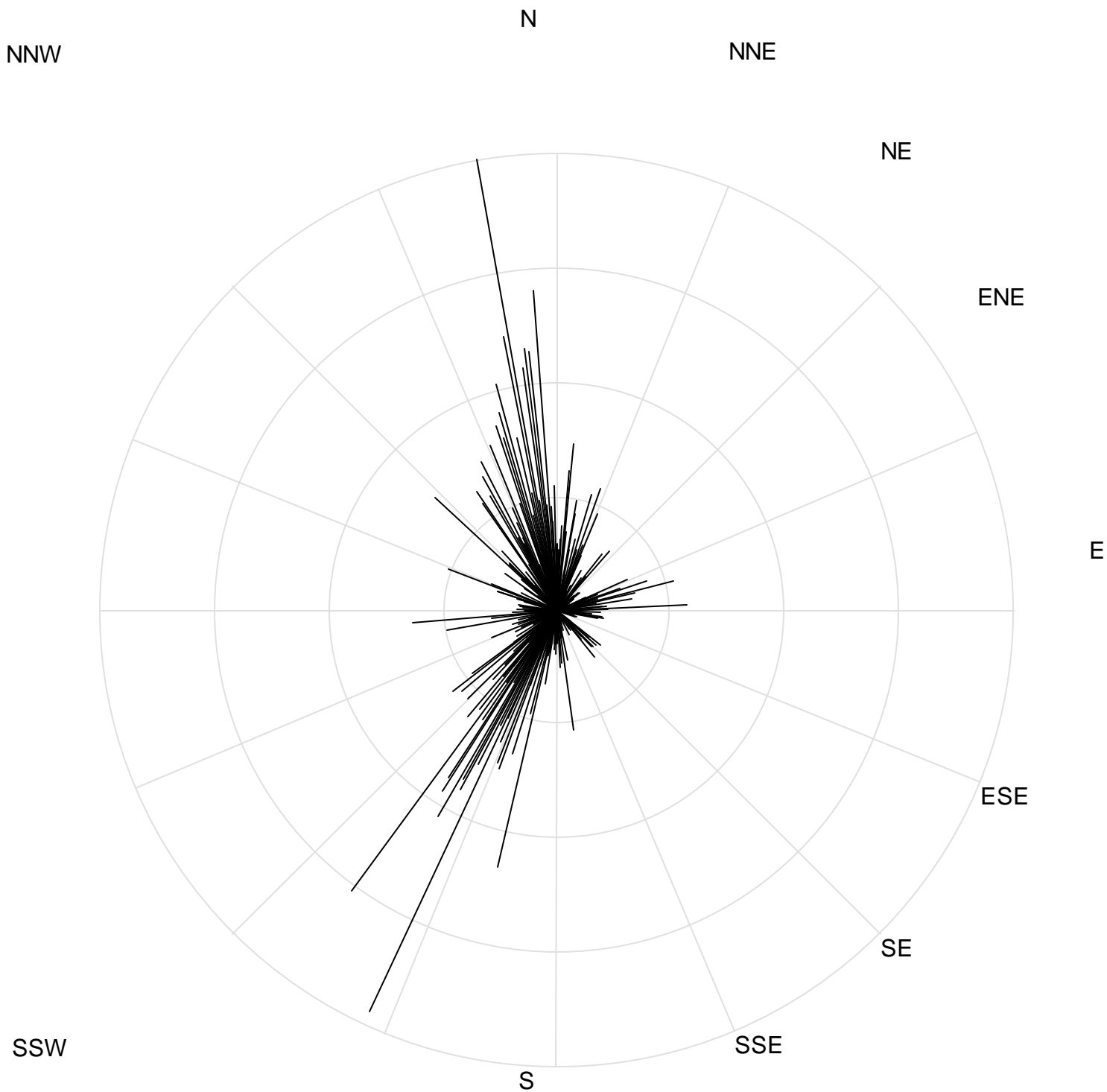
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01	0.02	0.01	0.03	0.03	0.04	0.08	0.03								0.03	0.03	0.01	0.01	0.02	0.01	0.01	0.02	0.03	01	
02	0.04	0.07	0.07	0.03	0.02	0.02	0.02	0.01	0.03	0.04					0.01								0.02	0.03	02
03																							0.02	0.01	03
04	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.03	0.02	0.02	0.02													0.02	04
05																									05
06																									06
07								0.05	0.02																07
08																									08
09																									09
10																									10
11																									11
12																									12
13										0.01	0.02	0.06	0.04	0.03	0.08	0.02	0.09	0.10	0.07	0.05	0.06	0.02	0.03	0.01	13
14	0.11	0.06	0.03												0.03	0.04				0.06	0.08	0.07	0.04	0.04	14
15																									15
16																									16
17																		0.01						0.01	17
18			0.01																						18
19																			0.18						19
20																						0.01			20
21															0.01	0.03	0.31	0.02	0.07	0.03	0.04	0.05	0.04		21
22																0.02	0.02	0.02	0.03						22
23		0.01																							23
24																									24
25	0.04			0.01	0.01																			0.02	25
26																		0.01							26
27													0.03	0.03	0.01										27
28																									28
29																									29
30																									30
Sum	0.23	0.17	0.16	0.10	0.10	0.13	0.14	0.06	0.05	0.07	0.04	0.06	0.10	0.13	0.15	0.43	0.22	0.18	0.20	0.28	0.18	0.19	0.14	0.12	Sum

During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOURLY-BY-HOURLY DATA
April 2004: Akron 1W, Ohio



Wind Rose: April 2004
Akron 1W, Ohio



Maximum direction of wind: 71.2 miles from 350°.
2838.7 total miles of wind.