

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### August 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	Deg. 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
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
1	80	66	73.0	72.5	63	73	0	7	1.....	0	0.00	0.0	30.05	29.97	30.007	1.0	0.7	334	10	N	8	24			
2	86*	61	73.3	74.0	61	66	0	8	.....	0	0.00	0.0	30.01	29.85	29.933	0.5	0.5	216	12	NNW	7	219			
3	86	67	76.4	76.4	66	69	0	11	.....	0	0.00	0.0	29.86	29.79	29.824	1.3	1.0	335	13	N	9	0			
4	73	62	67.4	68.7	64	86	0	2	1.....8.	0	0.06	0.0	29.84	29.71	29.768	1.8	1.0	14	21	SW	9	15			
5	73	57	64.8	64.5	54	69	1	0	.....	0	0.00	0.0	30.01	29.83	29.912	3.4	3.3	9	20	N	13	9			
6	71	51	60.9	61.6	49	66	5	0	.....	0	0.00	0.0	30.05	29.97	30.003	2.3	2.3	3	21	NNE	16	9			
7	72	53	62.5	63.4	50	64	3	0	.....	0	0.00	0.0	30.04	29.98	30.015	1.3	1.3	357	14	NNE	10	11			
8	78	58	67.8	68.1	54	61	0	2	.....	0	0.00	0.0	30.09	30.04	30.066	0.8	0.7	253	14	SSW	7	202			
9	79	58	68.5	69.8	58	68	0	3	.....	0	0.00	0.0	30.11	29.91	30.031	2.2	2.2	206	16	S	10	198			
10	80	64	72.2	72.0	61	69	0	7	.....8.	0	0.01	0.0	29.91	29.75	29.822	2.9	2.8	222	21	SW	11	215			
11	71	57	64.0	64.3	54	70	1	0	.....	0	0.00	0.0	29.91	29.81	29.851	1.9	1.9	222	17	SSW	10	209			
12	68	57	62.5	62.2	52	68	3	0	.....	0	T	0.0	29.95	29.89	29.924	1.3	0.6	3	12	NNE	9	19			
13	66	56	60.9	60.2	55	81	5	0	.....	0	0.08	0.0	30.09	29.91	29.992	0.6	0.6	8	10	NNE	8	16			
14	71	53	61.5	62.4	54	73	4	0	1.....	0	0.00	0.0	30.19	30.08	30.141	0.7	0.3	6	10	E	7	17			
15	72	54	63.3	63.0	56	77	2	0	..3.....	0	0.32	0.0	30.26	30.19	30.221	1.0	0.8	26	10	N	7	10			
16	74	55	64.3	64.5	55	72	1	0	.....	0	0.00	0.0	30.25	30.14	30.190	1.1	1.1	14	11	N	9	9			
17	78	54	66.1	67.2	54	64	0	1	.....	0	0.00	0.0	30.14	29.93	30.041	1.5	1.5	214	14	S	10	217			
18	79	61	70.0	68.6	62	78	0	4	.23.....	0	0.44	0.0	29.93	29.77	29.860	2.6	2.5	200	22	S	14	207			
19	74	66	69.9	68.5	67	94	0	4	1.3.....	0	0.66	0.0	29.96	29.80	29.892	0.7	0.4	225	10	SSW	6	4			
20	67	57	62.4	63.1	61	93	3	0	1.3.....	0	0.82	0.0	30.00	29.84	29.929	1.4	1.2	40	17	NNE	10	16			
21	70	52	61.0	61.5	56	82	4	0	.....	0	0.05	0.0	30.05	29.84	29.944	1.7	1.7	2	16	NNE	11	23			
22	73	48*	60.8*	61.9	52	71	5	0	.....	0	0.00	0.0	30.09	29.94	30.015	1.0	1.0	209	12	S	9	207			
23	81	57	69.1	69.7	60	72	0	4	.....	0	0.00	0.0	30.01	29.93	29.963	0.8	0.7	226	11	SSW	7	209			
24	82	62	72.2	73.5	62	69	0	7	.....	0	0.00	0.0	30.07	29.97	30.014	1.2	1.2	151	12	SE	7	149			
25	83	70	76.7	76.0	68	75	0	11	.....	0	0.00	0.0	30.04	29.99	30.014	3.2	3.2	192	20	S	12	217			
26	75	69	72.0	72.1	67	84	0	6	1.....8.	0	0.03	0.0	30.03	29.99	30.009	3.1	3.1	191	17	S	10	197			
27	86	70	77.7*	75.0	70	85	0	12	1.3.....8.	0	0.31	0.0	30.02	29.92	29.981	2.3	2.2	209	27	SSW	12	208			
28	81	72	76.4	74.3	70	87	0	11	1.3.....8.	0	0.08	0.0	29.96	29.80	29.894	1.0	0.9	195	18	WNW	7	266			
29	79	65	72.3	70.7	68	90	0	7	.23.....8.	0	0.30	0.0	29.94	29.82	29.862	1.7	0.4	316	12	N	9	15			
30	66	57	61.1	63.3	61	91	4	0	1.....	0	0.02	0.0	30.09	29.94	30.009	2.0	2.0	7	12	N	8	18			
31	75	55	64.6	63.8	56	77	1	0	1.....	0	0.00	0.0	30.18	30.08	30.137	0.7	0.4	298	12	NNE	9	9			
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		For the month:															---
2347	1842					42	107			3.18	0.0	30.26	29.71	29.976	1.6	0.3	267	27	SSW	16	9				
Avg	Avg	Avg	Mean	Avg	Avg	-----	-----	Precip		Season Ttl		Date	Date	-----	-----	---	Date	Date	Avg						
75.7	59.4	67.6	67.6	59	75.6	-----	-----	≥.01 inch		13	29.36	0.0	15	4	-----	-----	---	27	6						
Number of Days							Season to Date	Snow, Ice ≥1.0 inch	0	Greatest in 24 Hours and Dates							Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date								
Max Temperature			Min Temperature			44	444	Thunder	7	Precipitation			Snow, Ice Plts												
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	-----	-----	-----	-----	Heavy Fog	2	0.87	20-21	0.0	-	0											
0	0	0	0	-----	-----	-----	-----	Clear	7	Partly Cloudy		15	Cloudy	9											

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**

**August 2004: Akron 1W, Ohio**

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	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
AUG 01																											
01		29.97	0.00	69	67	95	27	0	0		30.00	0.00	64	60	87	01	0	0		29.83	0.00	69	64	82	21	0	0
04		29.99	0.00	67	65	96	26	0	1		29.98	0.00	62	59	93	35	0	0		29.85	0.00	68	62	82	26	0	1
07		30.03	0.00	67	65	95	33	0	0		30.01	0.00	65	63	96	22	0	0		29.85	0.00	69	64	83	25	0	2
10		30.05	0.00	74	62	65	22	2	6		29.96	0.00	78	60	53	24	0	0		29.84	0.00	80	70	69	35	2	5
13		30.03	0.00	79	62	54	26	1	10		29.92	0.00	83	59	42	26	0	0		29.82	0.00	84	71	61	24	1	12
16		29.99	0.00	80	57	45	22	1	6		29.88	0.00	84	57	39	34	1	5		29.80	0.00	85	65	50	27	3	12
19		30.00	0.00	74	62	64	34	0	9		29.86	0.00	80	61	50	23	0	0		29.80	0.00	80	64	55	00	3	7
22		30.00	0.00	69	60	72	01	0	5		29.88	0.00	73	64	72	28	0	0		29.81	0.00	74	65	64	00	0	0
AUG 02																											
AUG 03																											
AUG 04																											
AUG 05																											
AUG 06																											
AUG 07																											
AUG 08																											
AUG 09																											
AUG 10																											
AUG 11																											
AUG 12																											
AUG 13																											
AUG 14																											
AUG 15																											
AUG 16																											
AUG 17																											
AUG 18																											

**MAXIMUM SHORT DURATION PRECIPITATION**

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.31	0.31	0.31	0.31	0.38	0.40	0.41	0.45	0.51	0.54	0.56	0.60
Ended: Date	29	29	29	29	20	20	20	20	20	20	20	20
Ended: Time	1913	1913	1913	1913	1540	1551	1551	1534	1537	1551	1616	1604

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

## August 2004: Akron 1W, Ohio

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind		
						Direction	Speed	Gust							Direction	Speed	Gust							Direction	Speed	Gust
AUG 19									AUG 20									AUG 21								
01		29.81	0.00	67	66	96	18	1	5	29.96	0.00	67	66	95	31	0	1	29.85	0.00	58	57	97	00	3	7	
04		29.82	0.00	68	67	97	21	1	3	29.95	0.00	67	65	96	26	0	2	29.85	0.00	60	59	98	01	1	10	
07		29.88	0.00	66	65	97	20	2	5	29.95	0.00	66	64	94	13	1	2	29.92	0.00	60	59	98	31	0	5	
10		29.93	0.15	67	66	97	25	0	6	29.99	0.00	66	62	88	00	3	7	29.95	0.00	64	59	85	02	1	10	
13		29.93	0.00	68	67	98	26	1	5	29.97	0.00	63	59	88	04	1	5	29.96	0.00	69	60	69	00	4	10	
16		29.88	0.00	73	71	93	01	6	10	29.91	0.07	60	59	96	02	6	13	29.96	0.00	67	51	54	00	4	7	
19		29.91	0.00	71	67	84	21	0	2	29.87	0.16	58	57	96	07	5	7	30.00	0.00	62	48	59	01	1	4	
22		29.95	0.00	69	66				1	29.85	0.00	58	57	97	05	1	4	30.05	0.00	55	55	40	33	0	0	
AUG 22									AUG 23									AUG 24								
01		30.06	0.00	52	49	91	35	0	0	29.94	0.00	60	57	89	18	0	2	30.00	0.00	66	62	87	09	0	1	
04		30.05	0.00	49	47	91	35	0	0	29.94	0.00	58	56	92	20	0	1	30.01	0.00	64	61	92	09	0	0	
07		30.08	0.00	51	49	95	14	0	1	29.98	0.00	59	57	94	22	2	5	30.07	0.00	64	62	95	14	0	1	
10		30.06	0.00	64	49	56	20	1	8	29.99	0.00	73	63	67	28	1	6	30.05	0.00	77	63	59	15	5	8	
13		30.03	0.00	71	53	50	21	3	7	29.96	0.00	79	62	52	19	2	10	30.03	0.00	81	61	48	15	3	8	
16		29.97	0.00	73	56	52	14	1	11	29.94	0.00	81	61	48	21	5	8	29.98	0.00	82	60	46	15	2	10	
19		29.95	0.00	70	58	61	20	0	5	29.97	0.00	76	62	59	25	0	2	29.99	0.00	79	64	56	14	2	5	
22		29.96	0.00	63	58	81	22	0	5	30.00	0.00	69	63	79	01	0	0	30.00	0.00	74	65	70	23	0	2	
AUG 25									AUG 26									AUG 27								
01		29.99	0.00	73	66	78	16	1	8	30.01	0.00	74	68	80	17	3	10	29.99	0.00	70	69	95	21	1	7	
04		30.00	0.00	72	67	83	18	3	7	30.01	0.00	73	65	75	20	2	12	30.01	0.00	71	69	92	19	1	5	
07		30.02	0.00	71	65	81	20	2	11	30.02	0.00	69	64	84	18	5	14	30.01	0.00	73	69	89	20	3	10	
10		30.04	0.00	77	69	74	19	3	12	30.02	0.00	69	65	87	20	6	11	30.00	0.00	77	72	84	20	5	12	
13		30.02	0.00	82	71	67	18	3	14	30.01	0.00	73	68	83	19	6	12	29.96	0.00	82	74	74	19	1	12	
16		30.01	0.00	81	70	66	21	3	12	29.99	0.00	73	69	85	14	1	8	29.93	0.00	84	74	67	21	5	13	
19		30.02	0.00	78	69	72	20	2	12	30.00	0.00	75	70	83	17	3	7	29.96	0.00	73	65	74	25	0	2	
22		30.03	0.00	75	69	80	19	3	7	30.02	0.00	72	70	92	23	0	7	29.97	0.00	72	71	96	14	1	5	
AUG 28									AUG 29									AUG 30								
01		29.94	0.00	72	71	96	18	0	5	29.84	0.00	68	67	96	17	0	2	29.94	0.00	65	63	96	01	1	6	
04		29.91	0.00	72	70	96	17	0	7	29.82	0.00	67	66	96	20	0	0	29.97	0.00	64	63	97	03	4	7	
07		29.94	0.00	72	70	96	19	0	3	29.82	0.00	67	66	96	19	0	5	30.00	0.00	63	62	96	34	1	6	
10		29.94	0.00	74	73	97	20	0	5	29.86	0.00	73	68	86	24	1	6	30.01	0.00	65	63	95	35	2	6	
13		29.90	0.00	76	71	81	18	1	3	29.86	0.00	77	71	78	23	2	6	30.02	0.00	65	62	87	35	3	7	
16		29.82	0.00	81	72	71	20	4	10	29.86	0.00	77	71	81	35	2	4	30.02	0.00	64	60	85	33	1	8	
19		29.89	0.00	73	67	81	16	0	2	29.89	0.00	70	22	0	01	6	11	30.05	0.00	64	58	77	00	1	7	
22		29.87	0.00	73	67	81	23	1	5	29.93	0.00	66	65	96	02	2	7	30.07	0.00	59	57	92	33	0	0	
AUG 31																										
01		30.09	0.00	56	54	93	33	0	0																	
04		30.11	0.00	55	54	96	33	0	0																	
07		30.14	0.00	55	53	96	26	0	2																	
10		30.16	0.00	68	60	74	33	0	6																	
13		30.15	0.00	72	59	59	28	1	5																	
16		30.13	0.00	74	58	55	30	0	5																	
19		30.13	0.00	68	58	67	01	0	5																	
22		30.17	0.00	62	57	83	01	0	0																	

### 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

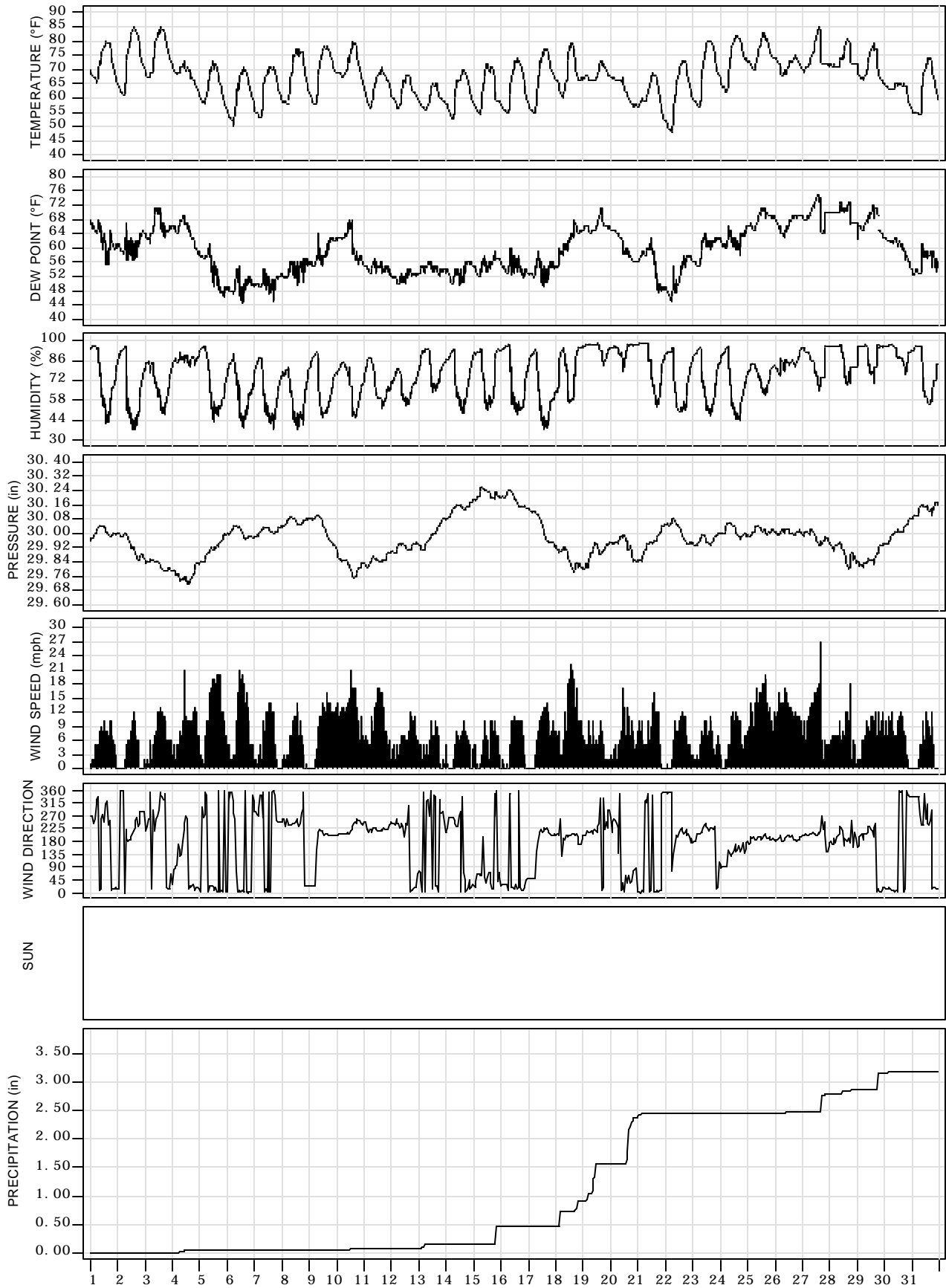
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.968	63	59	86	0.6	16	0.1
04		29.969	62	58	90	0.5	19	0.2
07		29.996	62	59	90	0.9	21	0.4
10		30.000	70	60	71	2.2	24	0.5
13		29.978	74	60	62	2.8	23	0.6
16		29.952	74	59	60	3.1	31	0.8
19		29.967	70	56	65	2.1	0	0.8
22		29.982	66	59	79	0.8	19	0.2

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

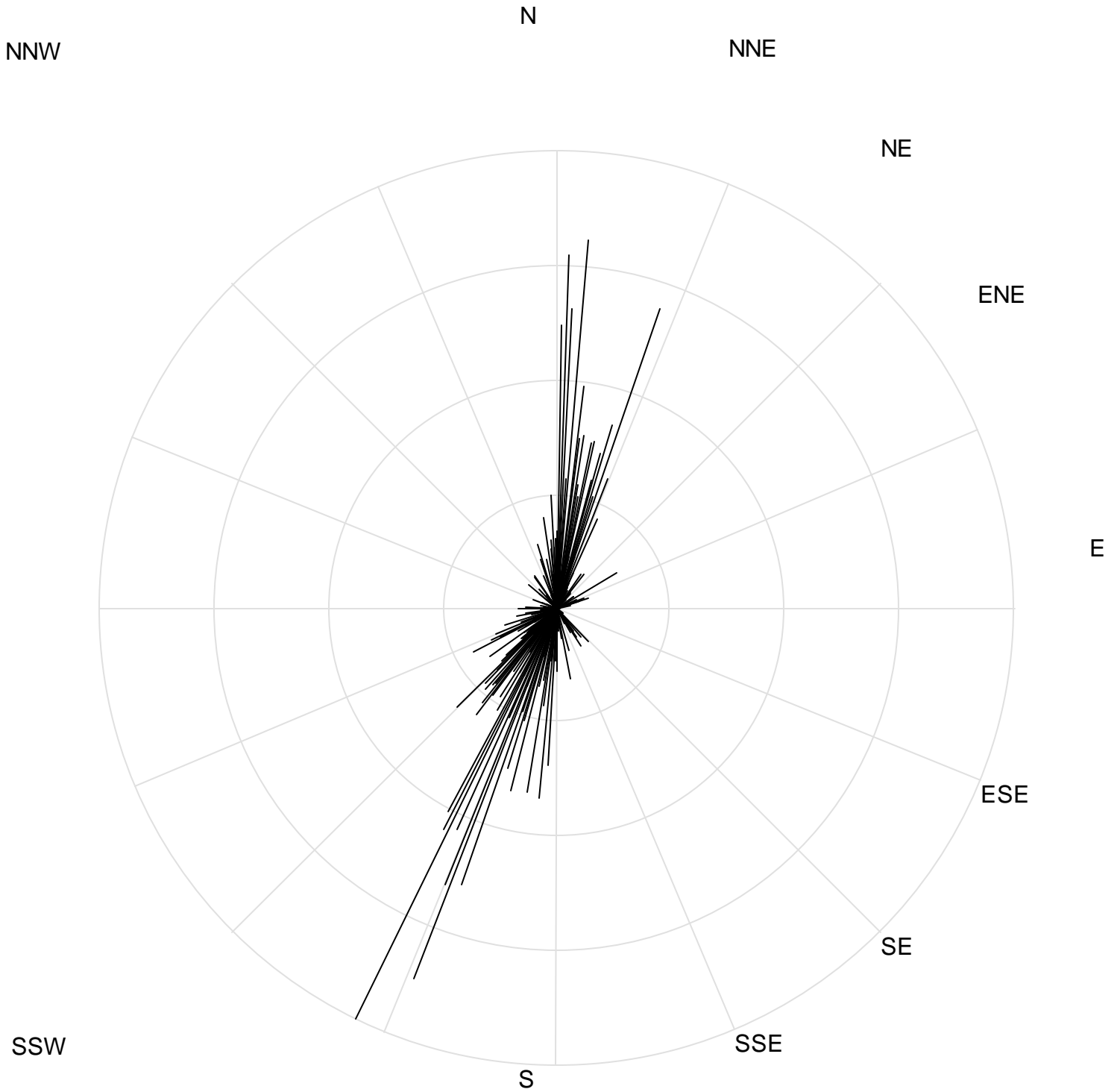
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05						0.02					0.03		0.01												05
06																									06
07																									07
08																									08
09																									09
10												0.01													10
11																									11
12		0.01	0.03		0.04																				12
13																									13
14																									14
15																			0.02	0.29	0.01				15
16																									16
17																									17
18																	0.02	0.04	0.12						18
19																									19
20									0.06	0.20	0.02	0.24	0.01												20
21	0.02	0.01	0.02												0.07	0.12	0.40	0.05	0.07	0.05	0.03	0.02		0.01	21
22																									22
23																									23
24																									24
25																									25
26																									26
27						0.02					0.01														27
28																	0.30			0.02	0.01				28
29																									29
30																		0.29							30
31																									31
Sum	0.02	0.02	0.09	0.38	0.05	0.04	0.00	0.06	0.20	0.03	0.31	0.02	0.01	0.07	0.12	0.40	0.37	0.40	0.21	0.33	0.04	0.00	0.00	0.01	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.)

# HOUR-BY-HOUR DATA August 2004: Akron 1W, Ohio



Wind Rose: August 2004  
Akron 1W, Ohio



Maximum direction of wind: 40.6 miles from 206°.  
1181.5 total miles of wind.