

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### December 2003

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

Date	Temperature					Humidity Mean	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		Heating	Cooling			Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg Speed	Res Speed	Res Dir	Peak		Minute		
																			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	46.4	32.9	39.7	38.2	20	48	26	0	.....	0	T	T	30.28	29.83	30.099	6.5	6.4	275	30	WNW	16	314	
2	34.0	27.0	30.5	30.0	14	52	35	0	.....	0	T	T	30.51	30.28	30.427	3.6	3.5	310	24	W	15	315	
3	35.2	25.4	30.3	29.6	17	59	35	0	.....	0	0.00	0.0	30.60	30.45	30.525	1.1	0.9	142	12	SE	8	135	
4	37.9	27.3	32.6	32.8	17	52	33	0	.....	0	0.00	0.0	30.46	30.10	30.289	2.9	2.8	95	12	E	9	85	
5	34.9	31.0	33.0	31.9	29	88	33	0	1.4.....	7	0.52	6.8	30.10	29.94	30.002	3.7	3.7	86	17	ENE	10	90	
6	35.2	28.1	31.7	31.2	26	83	34	0	.....	6	0.05	0.6	30.17	30.09	30.144	2.5	1.9	333	17	NNW	11	7	
7	31.0	17.5	24.3	27.2	21	79	41	0	.....	4	0.04	0.5	30.23	30.09	30.184	1.5	1.4	305	14	NNE	9	12	
8	34.6	17.2	25.9	27.3	21	76	40	0	.....	3	0.00	0.0	30.21	30.08	30.160	1.8	1.7	152	12	SE	9	133	
9	40.5	32.1	36.3	35.6	32	86	29	0	2.....	1	0.04	0.0	30.09	29.92	30.041	1.7	1.6	151	9	SSW	6	122	
10	44.5	40.5	42.5	42.9	38	83	23	0	1.....	0	0.34	0.0	29.92	29.43	29.639	4.2	4.1	140	21	SE	14	137	
11	44.6	27.6	36.1	34.9	29	79	29	0	.....	0	0.01	T	30.04	29.44	29.739	5.2	5.0	272	26	W	13	331	
12	28.2	21.3	24.8	25.5	15	65	41	0	.....	0	T	T	30.36	30.04	30.211	3.6	3.5	270	17	WSW	11	251	
13	28.4	17.8	23.1*	24.1	15	67	42	0	1.....	T	T	T	30.48	30.15	30.371	2.2	1.5	102	17	SE	9	59	
14	32.5	25.6	29.1	28.8	26	88	36	0	2.....	3	0.30	3.3	30.15	29.83	29.932	2.4	1.1	142	16	SE	9	142	
15	31.8	26.3	29.0	28.7	24	83	36	0	.....	2	T	T	30.13	29.90	30.057	3.5	2.4	215	17	SSE	9	146	
16	46.8	28.1	37.4	37.8	30	76	28	0	1.....	0	0.09	0.0	30.05	29.73	29.852	5.0	4.2	194	27	SSW	16	203	
17	30.3	24.5	27.4	27.1	21	78	38	0	1.....	1	0.04	0.6	29.84	29.75	29.794	5.2	5.1	253	21	SW	12	243	
18	29.5	24.1	26.8	26.4	20	78	39	0	.....	T	0.02	0.4	29.82	29.74	29.787	3.5	3.5	258	19	SW	11	241	
19	28.1	26.3	27.2	27.1	23	86	38	0	.....	1	0.04	0.7	29.92	29.79	29.837	2.2	2.1	261	13	W	8	240	
20	27.9	19.9	23.9	24.1	18	78	42	0	.....	2	0.07	1.8	30.30	29.92	30.145	2.9	2.6	272	13	NNW	9	243	
21	40.5	21.3	30.9	30.8	18	60	35	0	.....	1	0.00	0.0	30.28	30.01	30.152	6.4	6.4	207	24	S	15	212	
22	44.2	36.0	40.1	41.1	29	64	25	0	1.....	0	0.08	0.0	30.04	29.93	29.995	6.0	6.0	214	22	S	14	215	
23	48.5	32.7	40.6	43.4	41	90	25	0	.....	T	0.44	T	29.93	29.67	29.777	4.3	3.9	195	24	S	13	199	
24	33.4	28.2	30.8	31.6	30	93	35	0	.....	1	0.17	1.2	29.95	29.80	29.875	2.1	2.1	242	17	WSW	9	219	
25	28.2	23.9	26.1	25.9	22	84	39	0	.....	2	0.12	2.0	30.17	29.94	30.051	4.2	4.2	243	22	SW	13	250	
26	36.6	26.6	31.6	29.9	25	81	34	0	.....	1	0.00	0.0	30.38	30.17	30.314	2.4	2.3	268	12	WSW	8	247	
27	43.1	21.9	32.5	31.3	23	74	33	0	1.....	T	0.00	0.0	30.43	30.25	30.353	0.6	0.5	173	8	S	5	132	
28	55.4*	29.1	42.3	42.1	24	50	23	0	.....	0	0.00	0.0	30.26	30.03	30.155	2.8	2.6	178	18	SSW	12	200	
29	52.5	43.3	47.9*	48.1	31	53	18	0	.....	0	0.16	0.0	30.04	29.64	29.898	3.5	3.4	193	19	SSW	13	193	
30	46.0	26.0	36.0	32.2	27	82	29	0	.....	0	0.19	T	30.31	29.64	30.072	3.9	3.8	260	25	SW	16	253	
31	47.7	27.6	37.7	37.4	27	67	28	0	.....	0	0.00	0.0	30.29	30.07	30.202	4.2	3.9	221	26	SSW	18	217	
Sum	Sum	-----	-----	---	----	Ttl	Ttl			For the month:												---	
1178	837					1022	0	Number of Days		2.72	17.9	30.60	29.43	30.067	3.4	1.9	227	30	WNW	18	217		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	-----	---		Date	Date	Avg			
38.0	27.0	32.5	32.4	24	73.6	----	----	≥.01 inch	18	42.64	21.0	3	10	-----	-----	---		1	31				
Number of Days								Season to Date	Snow, Ice ≥1.0 inch	5	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date						
Max Temperature				Min Temperature				2203	516	Thunder	0	Precipitation			Snow, Ice Plts								
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	2	0.54	5	6.8	5	7		5									
0	9	25	0	----	----	Clear	4	Partly Cloudy	8	Cloudy	19												

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/m<sup>2</sup> 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

## December 2003: 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	
DEC 01																											
01		29.83	0.00	46	32	58	25	4	13		30.29	0.00	32	15	49	31	2	10		30.51	0.00	28	16	61	26	0	0
04		29.93	0.00	41	28	60	29	4	14		30.33	0.00	29	11	47	30	3	8		30.53	0.00	28	18	64	24	0	0
07		30.02	0.00	38	23	54	27	5	18		30.37	0.00	28	13	51	30	5	17		30.57	0.00	27	19	72	22	0	0
10		30.12	0.00	37	22	53	29	8	18		30.43	0.00	31	13	47	30	6	17		30.60	0.00	30	16	57	24	0	4
13		30.15	0.00	38	16	41	26	6	17		30.45	0.00	33	14	46	34	7	18		30.56	0.00	34	14	44	15	2	6
16		30.18	0.00	38	10	30	27	10	22		30.48	0.00	31	14	49	31	5	9		30.50	0.00	33	16	48	11	0	3
19		30.21	0.00	36	14	41	26	9	14		30.50	0.00	29	16	58	26	1	5		30.48	0.00	30	17	59	14	2	3
22		30.25	0.00	34	13	42	26	4	13		30.50	0.00	28	17	63	25	2	5		30.46	0.00	28	18	65	13	2	11
DEC 02																											
DEC 03																											
DEC 04																											
DEC 05																											
DEC 06																											
DEC 07																											
DEC 08																											
DEC 09																											
DEC 10																											
DEC 11																											
DEC 12																											
DEC 13																											
DEC 14																											
DEC 15																											
DEC 16																											
DEC 17																											
DEC 18																											

### MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Ended: Date	30	30	30	30	30	30	30	30	30	30	30	30
Ended: Time	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359	2359

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 December 2003: 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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01		29.80	0.00	27	24	89	25	3	6	29.93	0.00	27	24	88	28	1	10	30.26	0.00	22	15	74	21	4	13	04		29.81	0.00	27	24	90	24	0	5	29.98	0.00	26	20	79	31	3	11	30.25	0.00	24	17	73	22	6	16	07		29.80	0.00	27	24	89	26	3	10	30.05	0.00	25	22	90	26	1	8	30.25	0.00	22	16	77	18	5	13	10		29.84	0.00	28	23	81	24	0	8	30.15	0.00	25	21	85	27	3	10	30.24	0.00	26	16	65	21	7	19	13		29.81	0.00	28	22	78	23	5	10	30.17	0.00	26	17	69	25	4	10	30.12	0.00	37	19	48	19	8	17	16		29.83	0.00	28	23	82	31	0	5	30.24	0.00	24	14	66	25	2	9	30.06	0.00	40	22	48	21	9	22	19		29.87	0.00	26	24	91	24	0	5	30.28	0.00	21	13	71	23	1	7	30.05	0.00	38	20	48	20	9	20	22		29.90	0.00	27	24	88	27	2	6	30.30	0.00	20	13	75	22	2	6	30.03	0.00	36	19	50	20	7	14	DEC 22								DEC 23								DEC 24								01		30.00	0.00	37	19	48	21	10	17	29.90	0.01	42	42	97	18	4	8	29.81	0.01	33	32	97	24	0	2	04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																
04		29.81	0.00	27	24	90	24	0	5	29.98	0.00	26	20	79	31	3	11	30.25	0.00	24	17	73	22	6	16	07		29.80	0.00	27	24	89	26	3	10	30.05	0.00	25	22	90	26	1	8	30.25	0.00	22	16	77	18	5	13	10		29.84	0.00	28	23	81	24	0	8	30.15	0.00	25	21	85	27	3	10	30.24	0.00	26	16	65	21	7	19	13		29.81	0.00	28	22	78	23	5	10	30.17	0.00	26	17	69	25	4	10	30.12	0.00	37	19	48	19	8	17	16		29.83	0.00	28	23	82	31	0	5	30.24	0.00	24	14	66	25	2	9	30.06	0.00	40	22	48	21	9	22	19		29.87	0.00	26	24	91	24	0	5	30.28	0.00	21	13	71	23	1	7	30.05	0.00	38	20	48	20	9	20	22		29.90	0.00	27	24	88	27	2	6	30.30	0.00	20	13	75	22	2	6	30.03	0.00	36	19	50	20	7	14	DEC 22								DEC 23								DEC 24								01		30.00	0.00	37	19	48	21	10	17	29.90	0.01	42	42	97	18	4	8	29.81	0.01	33	32	97	24	0	2	04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																										
07		29.80	0.00	27	24	89	26	3	10	30.05	0.00	25	22	90	26	1	8	30.25	0.00	22	16	77	18	5	13	10		29.84	0.00	28	23	81	24	0	8	30.15	0.00	25	21	85	27	3	10	30.24	0.00	26	16	65	21	7	19	13		29.81	0.00	28	22	78	23	5	10	30.17	0.00	26	17	69	25	4	10	30.12	0.00	37	19	48	19	8	17	16		29.83	0.00	28	23	82	31	0	5	30.24	0.00	24	14	66	25	2	9	30.06	0.00	40	22	48	21	9	22	19		29.87	0.00	26	24	91	24	0	5	30.28	0.00	21	13	71	23	1	7	30.05	0.00	38	20	48	20	9	20	22		29.90	0.00	27	24	88	27	2	6	30.30	0.00	20	13	75	22	2	6	30.03	0.00	36	19	50	20	7	14	DEC 22								DEC 23								DEC 24								01		30.00	0.00	37	19	48	21	10	17	29.90	0.01	42	42	97	18	4	8	29.81	0.01	33	32	97	24	0	2	04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																				
10		29.84	0.00	28	23	81	24	0	8	30.15	0.00	25	21	85	27	3	10	30.24	0.00	26	16	65	21	7	19	13		29.81	0.00	28	22	78	23	5	10	30.17	0.00	26	17	69	25	4	10	30.12	0.00	37	19	48	19	8	17	16		29.83	0.00	28	23	82	31	0	5	30.24	0.00	24	14	66	25	2	9	30.06	0.00	40	22	48	21	9	22	19		29.87	0.00	26	24	91	24	0	5	30.28	0.00	21	13	71	23	1	7	30.05	0.00	38	20	48	20	9	20	22		29.90	0.00	27	24	88	27	2	6	30.30	0.00	20	13	75	22	2	6	30.03	0.00	36	19	50	20	7	14	DEC 22								DEC 23								DEC 24								01		30.00	0.00	37	19	48	21	10	17	29.90	0.01	42	42	97	18	4	8	29.81	0.01	33	32	97	24	0	2	04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																														
13		29.81	0.00	28	22	78	23	5	10	30.17	0.00	26	17	69	25	4	10	30.12	0.00	37	19	48	19	8	17	16		29.83	0.00	28	23	82	31	0	5	30.24	0.00	24	14	66	25	2	9	30.06	0.00	40	22	48	21	9	22	19		29.87	0.00	26	24	91	24	0	5	30.28	0.00	21	13	71	23	1	7	30.05	0.00	38	20	48	20	9	20	22		29.90	0.00	27	24	88	27	2	6	30.30	0.00	20	13	75	22	2	6	30.03	0.00	36	19	50	20	7	14	DEC 22								DEC 23								DEC 24								01		30.00	0.00	37	19	48	21	10	17	29.90	0.01	42	42	97	18	4	8	29.81	0.01	33	32	97	24	0	2	04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																								
16		29.83	0.00	28	23	82	31	0	5	30.24	0.00	24	14	66	25	2	9	30.06	0.00	40	22	48	21	9	22	19		29.87	0.00	26	24	91	24	0	5	30.28	0.00	21	13	71	23	1	7	30.05	0.00	38	20	48	20	9	20	22		29.90	0.00	27	24	88	27	2	6	30.30	0.00	20	13	75	22	2	6	30.03	0.00	36	19	50	20	7	14	DEC 22								DEC 23								DEC 24								01		30.00	0.00	37	19	48	21	10	17	29.90	0.01	42	42	97	18	4	8	29.81	0.01	33	32	97	24	0	2	04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																		
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04		30.00	0.00	39	21	47	21	10	21	29.84	0.00	44	43	97	18	4	11									07		30.01	0.00	40	24	52	20	8	16	29.80	0.00	46	41	82	20	5	17	29.85	0.01	32	31	95	23	1	4	10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																		
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10		30.03	0.00	42	25	50	21	8	17	29.80	0.00	47	39	75	19	3	14	29.88	0.00	33	31	95	23	2	7	13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																						
13		29.99	0.00	44	28	55	21	6	22	29.72	0.01	46	42	87	18	8	16	29.84	0.01	33	30	90	24	2	7	16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																																																
16		29.97	0.00	44	32	64	20	7	14	29.71	0.00	47	45	91	18	7	13	29.87	0.00	32	30	92	23	1	13	19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																																																																										
19		29.99	0.00	42	38	83	22	8	12	29.71	0.04	43	41	93	25	4	8	29.91	0.00	30	28	92	23	2	6	22		29.97	0.06	41	40	96	20	2	11	29.79	0.01	33	32	95	25	0	0	29.94	0.00	29	27	91	23	2	8	DEC 25								DEC 26								DEC 27								01		29.95	0.00	28	24	84	23	2	6	30.19	0.00	27	25	93	25	2	8	30.36	0.00	26	23	86	27	0	2	04		29.98	0.00	27	23	83	23	4	11	30.24	0.00	28	26	91	26	2	7	30.38	0.00	24	22	92	26	1	3	07		30.00	0.00	26	21	82	23	3	14	30.29	0.00	28	25	86	25	2	8	30.40	0.00	23	20	91	26	0	0	10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																																																																																																				
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10		30.05	0.00	26	22	86	21	5	12	30.35	0.00	29	24	83	26	4	10	30.41	0.00	30	24	79	21	1	5	13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13		30.03	0.00	26	21	81	24	6	11	30.33	0.03	34	26	71	28	3	8	30.33	0.02	40	25	55	12	2	7	16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
16		30.07	0.00	25	21	84	25	7	19	30.34	0.02	35	26	68	22	3	8	30.34	0.00	42	23	46	18	0	6	19		30.12	0.00	24	20	85	24	6	13	30.37	0.00	30	24	77	25	3	6	30.34	0.00	34	24	69	15	2	5	22		30.15	0.00	26	22	85	25	4	11	30.37	0.00	29	23	80	27	2	4	30.29	0.00	33	24	70	12	0	3	DEC 28								DEC 29								DEC 30								01		30.25	0.00	30	23	75	13	2	7	30.02	0.00	46	23	41	18	3	8	29.73	0.08	42	39	90	28	8	19	04		30.23	0.00	32	23	69	13	2	7	30.01	0.00	45	22	40	19	4	8	29.84	0.02	34	33	93	29	3	12	07		30.22	0.00	31	21	67	15	1	5	29.98	0.00	46	21	37	17	1	10	29.95	0.00	33	26	74	26	7	14	10		30.22	0.00	39	24	54	18	6	11	29.98	0.00	48	26	42	19	5	12	30.06	0.00	32	27	80	27	4	18	13		30.12	0.00	52	25	34	18	9	17	29.88	0.00	51	30	44	20	5	12	30.11	0.00	32	24	73	24	7	17	16		30.10	0.00	54	26	34	17	2	7	29.83	0.00	52	35	51	21	5	7	30.22	0.00	32	24	72	25	5	11	19		30.11	0.00	46	24	42	15	2	5	29.80	0.00	51	39	65	17	2	7	30.28	0.00	28	23	84	27	0	1	22		30.06	0.00	47	23	38	19	4	11	29.74	0.05	46	44	91	18	7	14	30.29	0.00	27	24	90	18	0	6	DEC 31																								01		30.28	0.00	30	24	81	19	2	7																	04		30.26	0.00	30	25	81	18	2	10																	07		30.23	0.00	33	26	76	20	1	14																	10		30.19	0.00	37	26	65	19	12	17																	13		30.08	0.00	46	27	47	22	8	18																	16		30.11	0.00	46	29	50	24	11	18																	19		30.19	0.00	42	29	62	24	3	7																	22		30.27	0.00	37	30	75	26	0	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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### 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		30.049	31	24	77	3.0	22	1.6
04		30.075	30	24	77	2.9	23	1.7
07		30.071	30	23	77	2.9	23	1.7
10		30.099	32	24	72	4.3	22	2.1
13		30.055	35	24	66	4.6	23	2.3
16		30.055	35	25	67	4.2	23	2.4
19		30.073	33	25	74	3.7	22	2.1
22		30.073	32	25	77	2.6	23	1.3

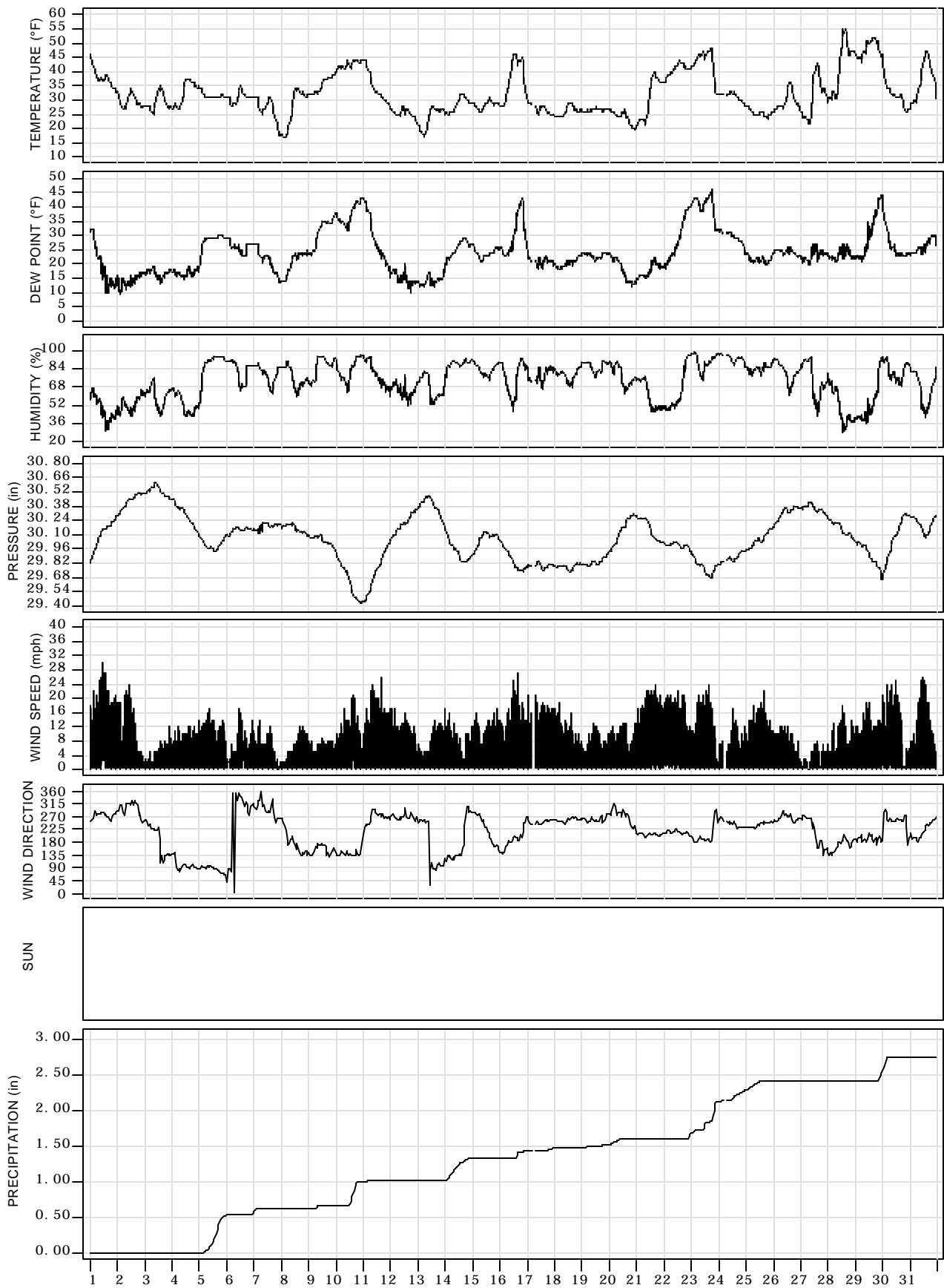
## HOURLY PRECIPITATION (Water Equivalent) December 2003: Akron 1W, Ohio

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			0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.05	0.05	0.04	0.03	0.01	0.01		0.01	05	
06																							0.02	0.03	06	
07	0.02	0.01	0.01																						07	
08								0.01	0.02	0.01															08	
09																									09	
10												0.01	0.05	0.07	0.04	0.04	0.08	0.02	0.02		0.01				10	
11				0.01																					11	
12																									12	
13																									13	
14	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.01			14	
15																									15	
16															0.03	0.04		0.01				0.01	0.01		16	
17																	0.01		0.01			0.01	0.01		17	
18		0.01			0.01																				18	
19				0.01				0.01	0.01	0.01							0.01		0.01						19	
20		0.01	0.01	0.01		0.01	0.01	0.01	0.01																20	
21																									21	
22																									22	
23	0.01	0.01	0.03		0.01							0.01	0.07	0.01		0.01	0.01	0.01	0.09	0.06	0.11	0.04	0.03	0.01	23	
24	0.01	0.01	0.01									0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		24	
25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01												25	
26																									26	
27																									27	
28																									28	
29																									29	
30	0.03	0.07	0.07	0.02																		0.05	0.05	0.01	0.05	30
31																									31	
Sum	0.09	0.14	0.17	0.09	0.06	0.05	0.07	0.08	0.07	0.05	0.07	0.16	0.12	0.14	0.14	0.16	0.17	0.11	0.18	0.12	0.22	0.13	0.07	0.10	Sum	

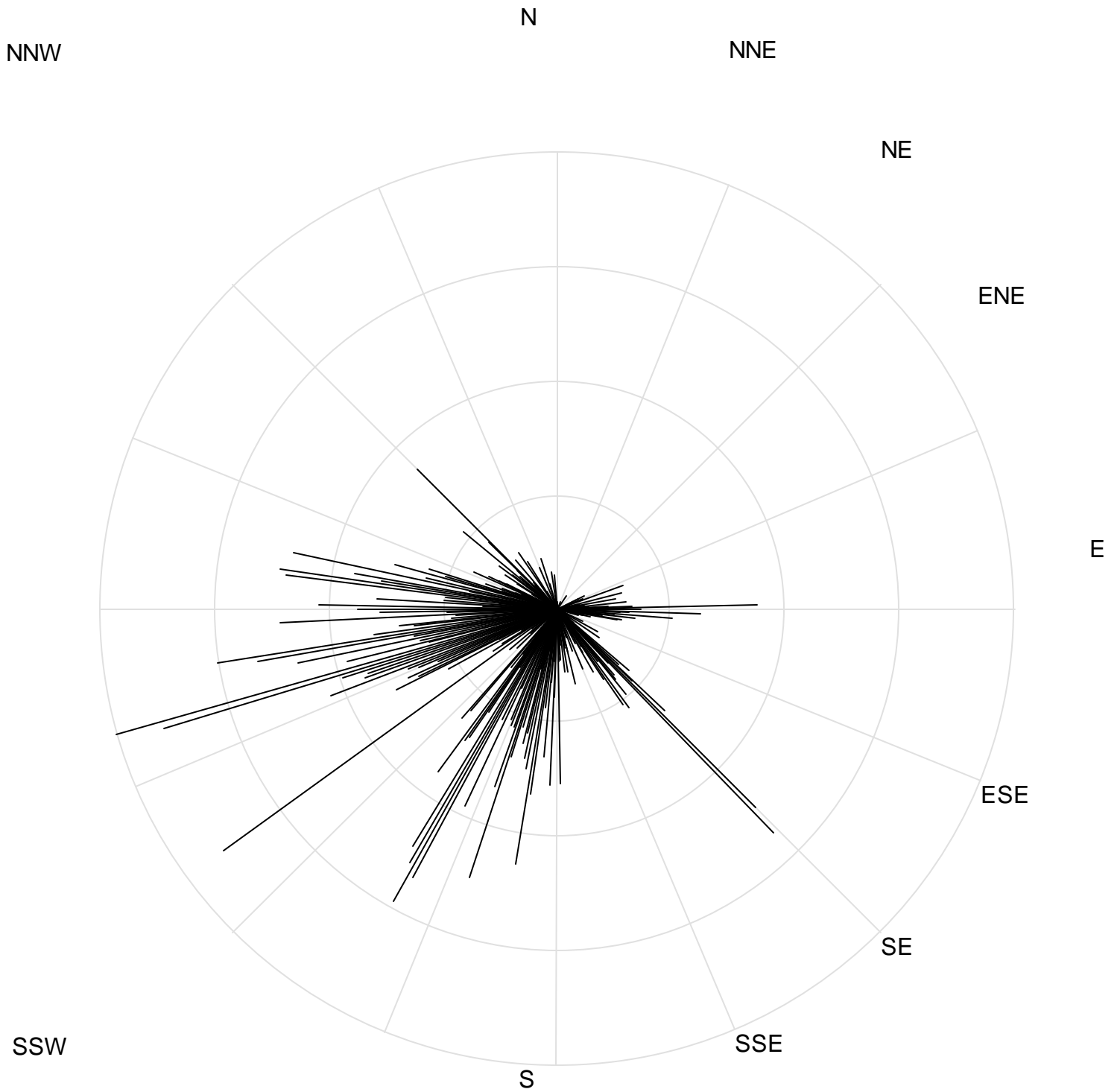
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

# HOURLY-BY-HOURLY DATA

## December 2003: Akron 1W, Ohio



Wind Rose: December 2003  
Akron 1W, Ohio



Maximum direction of wind: 51.7 miles from 254°.  
2508.6 total miles of wind.