

LOCAL CLIMATOLOGICAL DATA
Monthly Summary
April 2005

Station: Westford
 Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature					Humidity	Deq 65°F		Days 65°F	Precip Ty	Snow Cvr	Precip		Pressure			Wind					Sun
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base				Cooling Base	Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Adj. to Sea Level	Avg	Res	Res		Peak		Minute		Mean Index
1	2	3	4A	4B	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	50.8	38.3	44.5	43.0	36	77	21	0	.....	0	0.06	0.0	30.02	29.92	29.963	5.3	4.3	186	24	SSW	0	0
2	50.8	35.6	43.2	40.8	37	88	22	0	.....	0	0.54	0.0	30.00	29.41	29.742	2.1	1.2	135	21	SSE	0	0
3	55.7	37.8	46.8	47.8	42	81	19	0	.....	0	0.18	0.0	29.41	29.22	29.283	3.2	2.6	141	28	SSE	0	0
4	38.3	35.6	36.9	37.0	35	92	29	0	.....	0	0.17	T	29.78	29.36	29.534	4.0	3.7	238	20	WSW	0	0
5	51.3	34.1	42.7	41.2	25	54	23	0	.....	0	0.00	0.0	30.12	29.78	29.980	3.9	3.3	292	24	NNW	0	0
6	63.5	37.6	50.5	49.4	29	48	15	0	.....	0	T	0.0	30.13	30.00	30.071	1.0	0.6	326	13	NW	0	0
7	57.3	34.6	45.9	47.3	38	73	20	0	.....	0	0.32	0.0	30.00	29.61	29.773	2.7	1.1	225	24	NW	0	0
8	50.5	32.1	41.3	41.3	32	73	24	0	.....	0	T	0.0	30.07	29.78	29.937	2.3	1.7	303	19	NW	0	0
9	55.3	27.9	41.6	42.2	20	47	24	0	.....	0	0.00	0.0	30.20	30.05	30.113	0.9	0.6	313	12	NW	0	0
10	54.5	33.8	44.1	43.9	21	42	21	0	.....	0	0.00	0.0	30.14	30.00	30.046	2.6	1.9	338	20	N	0	0
11	42.8	26.1	34.4*	34.1	15	47	31	0	.....	0	0.00	0.0	30.26	30.14	30.209	3.2	3.0	339	21	N	0	0
12	47.7	24.2*	36.0	34.9	17	51	30	0	.....	0	0.00	0.0	30.22	29.86	30.041	3.6	3.3	338	27	WNW	0	0
13	48.2	29.1	38.7	37.8	27	65	27	0	.....	0	0.00	0.0	29.98	29.90	29.944	2.4	2.2	326	19	WNW	0	0
14	52.2	30.9	41.6	40.1	23	57	24	0	.....	0	0.00	0.0	30.35	29.95	30.139	2.3	2.2	353	18	NW	0	0
15	54.1	26.7	40.4	41.2	13	33	25	0	.....	0	0.00	0.0	30.53	30.35	30.470	1.8	1.7	317	19	WNW	0	0
16	67.9	30.7	49.3	49.5	18	33	16	0	.....	0	0.00	0.0	30.53	30.26	30.427	2.0	1.7	199	18	SSW	0	0
17	70.3	43.3	56.8*	56.9	23	28	9	0	.....	0	0.00	0.0	30.26	29.97	30.097	2.9	1.5	264	17	WNW	0	0
18	61.5	39.6	50.5	50.8	21	33	15	0	.....	0	0.00	0.0	30.15	29.99	30.074	2.1	1.7	335	14	N	0	0
19	74.9*	38.0	56.5	59.2	26	30	9	0	.....	0	0.00	0.0	30.04	29.72	29.904	4.7	4.3	203	21	SSW	0	0
20	65.3	36.6	51.0	52.8	44	74	15	0	.....	0	0.42	0.0	29.77	29.68	29.719	3.5	1.3	305	18	NW	0	0
21	46.7	29.8	38.3	38.0	21	55	27	0	.....	0	0.01	0.0	30.00	29.77	29.952	3.0	2.7	331	24	WNW	0	0
22	59.3	27.0	43.1	45.1	21	40	22	0	.....	0	0.00	0.0	30.01	29.71	29.886	2.6	2.3	189	20	W	0	0
23	51.9	39.6	45.8	45.8	42	89	20	0	.....	0	0.69	0.0	29.72	29.45	29.577	1.8	1.1	130	19	SE	0	0
24	63.2	45.1	54.1	55.7	46	71	11	0	.....	0	0.06	0.0	29.45	29.18	29.278	5.6	4.8	151	28	SSE	0	0
25	45.1	37.2	41.1	40.9	35	79	24	0	.....	0	0.21	0.0	29.62	29.28	29.380	3.0	2.5	209	16	S	0	0
26	65.6	39.3	52.4	52.2	35	56	13	0	.....	0	0.00	0.0	29.82	29.62	29.769	6.2	6.0	192	30	S	0	0
27	55.4	46.1	50.8	51.7	44	77	15	0	.....	0	0.46	0.0	29.80	29.62	29.717	3.8	3.5	156	26	SSE	0	0
28	52.3	40.3	46.3	44.4	40	85	19	0	.....	0	0.09	0.0	29.73	29.65	29.705	3.1	2.8	255	18	WNW	0	0
29	58.3	36.3	47.3	45.8	31	60	18	0	.....	0	0.22	0.0	29.93	29.72	29.801	6.3	5.4	253	24	WSW	0	0
30	59.2	40.5	49.9	47.6	39	74	16	0	.....	0	0.25	0.0	29.96	29.62	29.823	1.8	1.3	150	21	SSE	0	0
Sum	Sum	-----	-----	---	----	Ttl	Ttl		For the month:													---
1670	1054					604	0	Number of Days	3.68	T	30.53	29.18	29.878	3.1	1.0	238	30	S	0	0	0	
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip	Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
55.7	35.1	45.4	45.3	30	60.4	----	----	≥.01 inch	14	12.33	110.8	16	24	-----	----	----	---	26	1+			
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			5037	0	Thunder	0	Precipitation		Snow, Ice Plts										
≥ 90°F	< 32°F	< 32°F	< 0°F	----	----	Heavy Fog	0	0.70	23-24	T	4	0	-									
0	0	10	0	----	----	Clear	8	Partly Cloudy	11	Cloudy	11											

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^2 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 2005: Westford

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	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
APR 19									APR 20									APR 21									
01		30.03	0.00	45	18	34	18	2	5	29.71	0.00	62	40	44	18	6	11	29.80	0.00	36	35	96	00	3	10		
04		30.01	0.00	39	21	48	20	1	3	29.69	0.00	64	46	51	22	5	11	29.88	0.00	33	31	93	00	2	11		
07		30.03	0.00	45	16	30	18	4	7	29.72	0.00	61	48	64	22	4	7	29.97	0.00	30	19	63	00	3	11		
10		30.00	0.00	61	21	21	18	7	12	29.73	0.00	62	52	69	31	3	8	30.00	0.00	37	19	48	31	5	12		
13		29.91	0.00	69	27	21	24	8	17	29.74	0.00	54	46	74	00	4	10	29.99	0.00	42	14	32	31	8	14		
16		29.80	0.00	73	31	21	24	10	18	29.74	0.00	45	41	88	00	3	10	29.97	0.00	46	17	31	31	5	10		
19		29.75	0.00	71	35	27	20	4	10	29.70	0.01	40	39	98	31	4	7	29.98	0.00	44	17	34	00	2	6		
22		29.74	0.00	64	40	41	18	3	7	29.73	0.00	37	36	96	00	4	12	30.00	0.00	37	13	36	00	0	0		
APR 22									APR 23									APR 24									
01		30.01	0.00	35	17	47	22	0	2	29.71	0.00	49	35	59	18	3	8	29.44	0.00	52	49	89	11	3	8		
04		29.99	0.00	29	19	67	00	0	0	29.69	0.00	42	38	86	06	3	7	29.35	0.00	55	49	81	15	7	20		
07		29.98	0.00	33	17	52	15	3	6	29.66	0.00	40	39	95	00	0	2	29.25	0.00	57	51	81	15	5	13		
10		29.97	0.00	46	17	31	18	4	11	29.59	0.00	42	41	94	09	3	7	29.23	0.00	57	51	79	09	7	17		
13		29.89	0.00	54	15	21	20	9	16	29.54	0.00	45	43	93	18	2	5	29.22	0.00	58	51	79	13	4	11		
16		29.81	0.00	58	20	23	20	8	17	29.50	0.00	50	46	85	15	4	7	29.19	0.00	62	44	51	18	10	19		
19		29.75	0.00	54	27	35	00	0	0	29.48	0.00	50	47	90	18	6	12	29.22	0.00	58	42	55	13	3	11		
22		29.73	0.00	50	27	41	06	1	4	29.47	0.01	50	48	92	09	1	3	29.35	0.00	47	32	55	20	6	14		
APR 25									APR 26									APR 27									
01		29.37	0.00	44	31	59	18	1	4	29.65	0.00	40	36	85	20	5	10	29.80	0.00	55	31	40	15	6	11		
04		29.32	0.00	42	33	71	00	0	0	29.72	0.00	40	35	81	20	7	17	29.76	0.00	53	41	64	11	3	10		
07		29.30	0.00	38	36	94	20	2	6	29.79	0.00	40	35	82	20	5	12	29.73	0.00	53	39	59	15	8	21		
10		29.28	0.00	39	37	92	20	3	8	29.81	0.00	51	38	60	20	10	17	29.74	0.00	50	47	88	18	3	6		
13		29.32	0.00	40	38	90	20	2	5	29.82	0.00	60	38	45	20	9	16	29.71	0.00	53	48	82	13	5	14		
16		29.39	0.00	41	38	89	27	3	7	29.79	0.00	64	35	34	18	9	14	29.63	0.00	55	49	80	18	5	10		
19		29.46	0.00	43	32	64	15	6	14	29.78	0.00	63	33	32	15	2	7	29.66	0.00	50	48	96	00	0	0		
22		29.57	0.00	40	36	85	20	5	12	29.78	0.00	58	34	41	18	3	15	29.72	0.00	47	46	97	18	2	5		
APR 28									APR 29									APR 30									
01		29.72	0.00	46	45	97	04	1	7	29.72	0.00	41	35	78	24	4	10	29.95	0.00	45	30	54	22	0	2		
04		29.72	0.00	44	43	97	00	0	0	29.73	0.00	40	34	80	22	6	10	29.95	0.00	43	32	67	00	0	0		
07		29.73	0.00	43	43	97	22	1	3	29.77	0.01	38	33	84	22	10	19	29.96	0.00	42	37	80	00	0	0		
10		29.72	0.00	44	41	89	24	2	6	29.78	0.00	42	35	77	22	7	12	29.90	0.00	55	37	50	06	0	3		
13		29.67	0.00	49	41	72	27	8	13	29.79	0.00	51	35	53	22	10	17	29.85	0.00	52	41	67	15	6	12		
16		29.67	0.00	45	39	81	24	6	12	29.80	0.00	57	31	37	33	8	15	29.75	0.00	48	45	87	13	2	6		
19		29.70	0.00	43	38	82	24	5	10	29.85	0.00	54	25	32	27	2	6	29.67	0.01	47	45	94	13	1	6		
22		29.72	0.00	42	37	83	24	3	6	29.92	0.00	46	26	45	20	4	7	29.64	0.00	47	46	95	18	3	6		

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

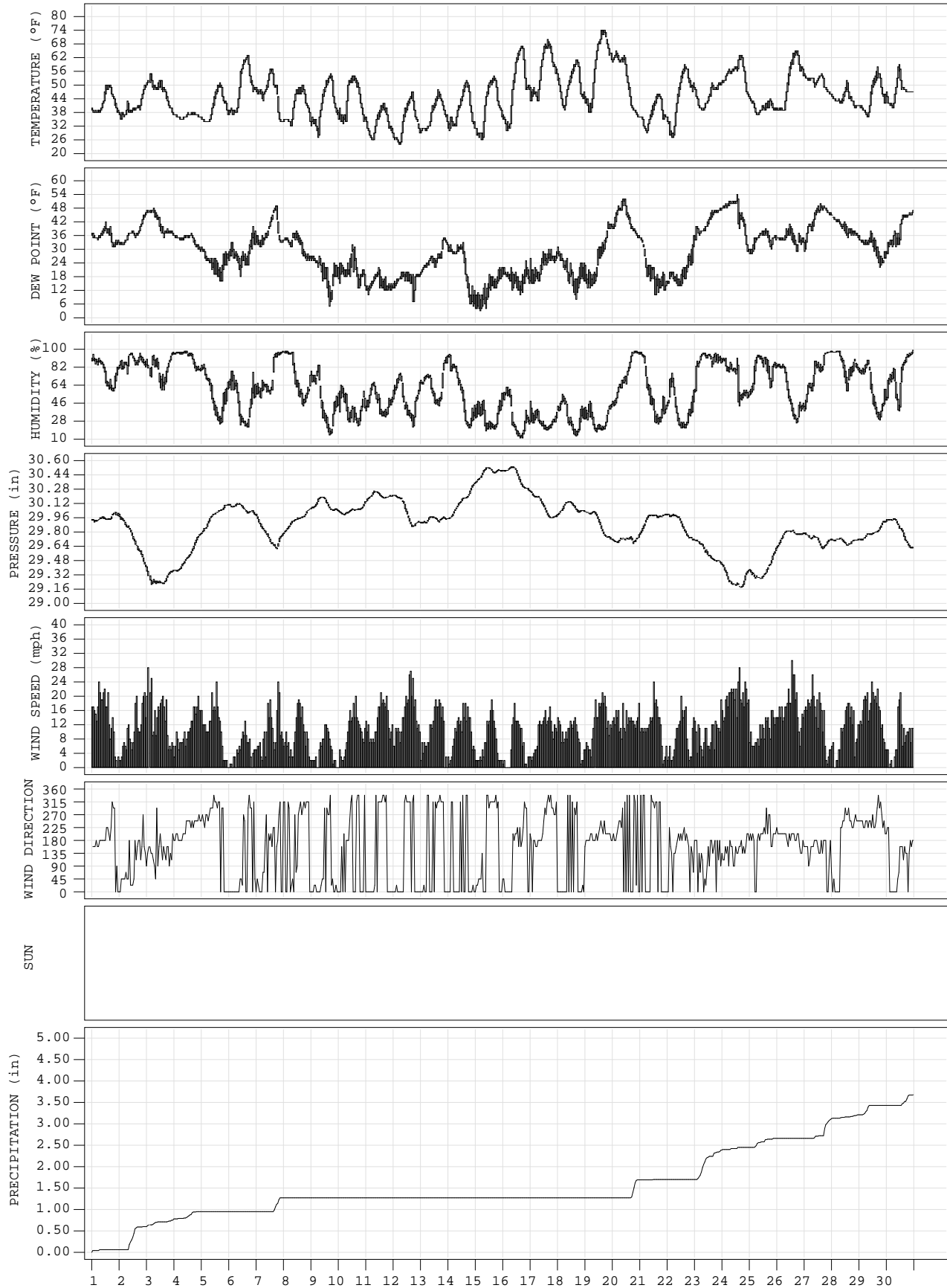
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.891	41	29	66	2.1	18	1.0
04		29.884	40	30	70	1.9	18	0.7
07		29.904	39	30	72	2.6	19	1.3
10		29.904	46	31	59	3.9	23	1.2
13		29.878	51	31	52	5.8	26	2.6
16		29.846	52	30	49	4.7	27	2.0
19		29.851	49	29	52	2.8	28	0.8
22		29.876	44	30	62	1.9	20	0.8

HOURLY PRECIPITATION (Water Equivalent)
April 2005: Westford

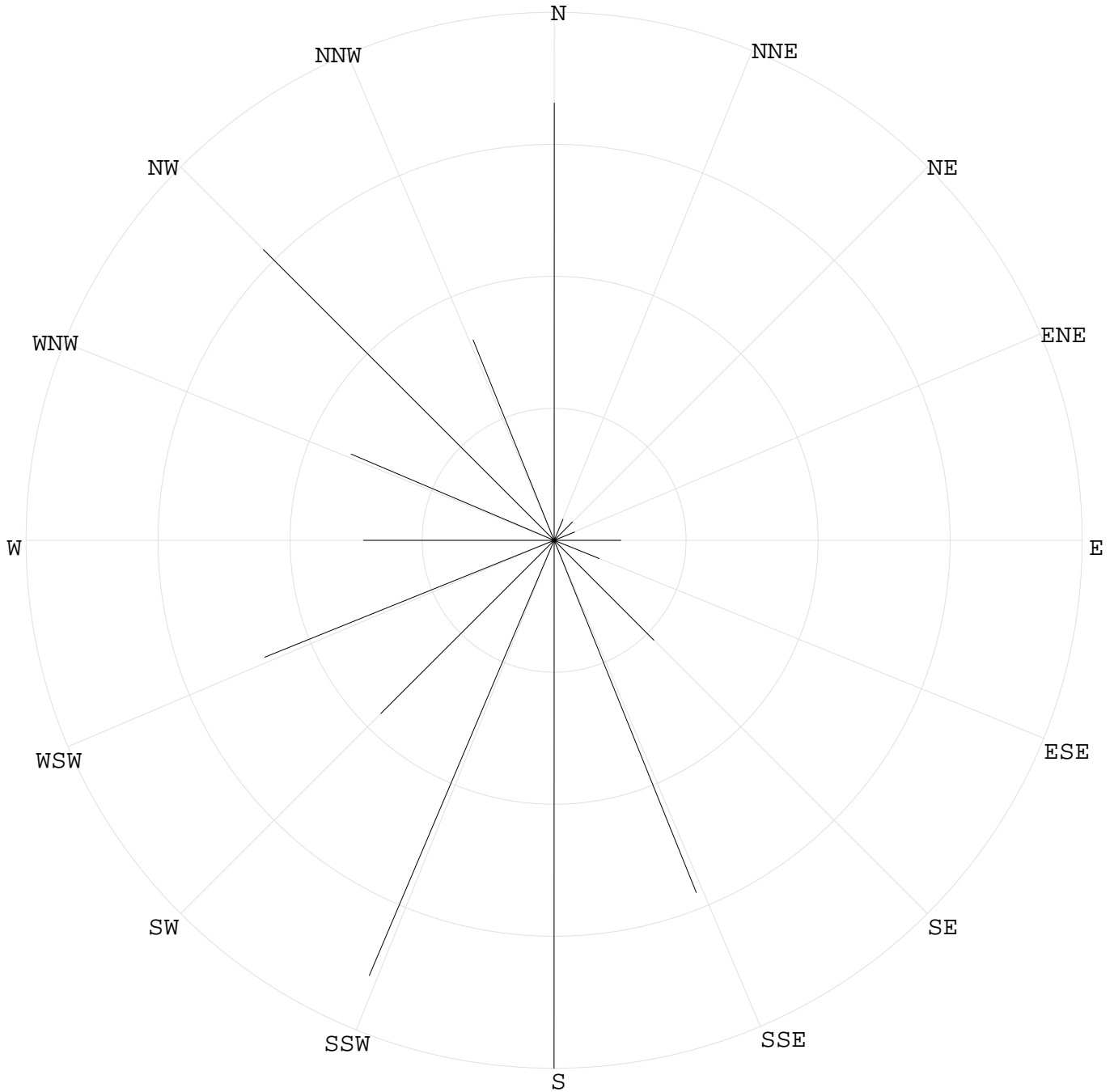
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01	0.04						0.02																		01
02								0.12	0.06	0.05	0.06	0.09	0.11	0.02	0.02					0.01					02
03	0.02	0.02				0.02	0.02		0.01										0.01	0.01		0.02			03
04				0.01						0.01	0.02	0.02	0.02	0.01	0.04	0.02				0.01					04
05																									05
06																									06
07																									07
08															0.04	0.07	0.06	0.02	0.09	0.04					08
09																									09
10																									10
11																									11
12																									12
13																									13
14																									14
15																									15
16																									16
17																									17
18																									18
19																									19
20																	0.02	0.11	0.11	0.11	0.06	0.01			20
21											0.01														21
22																									22
23																									23
24	0.01			0.02	0.04	0.04	0.07	0.11	0.07	0.06	0.07	0.03	0.01	0.02			0.07	0.01	0.01	0.01		0.01	0.03	0.01	24
25						0.01	0.03	0.05	0.02		0.01	0.01			0.03	0.05		0.01							25
26																									26
27										0.01	0.04			0.01				0.17	0.09	0.03	0.04	0.03	0.02	0.02	27
28	0.01							0.01	0.01								0.01		0.01	0.01		0.01	0.01		28
29				0.01	0.02	0.04	0.03	0.08	0.04																29
30															0.04	0.01	0.04		0.06	0.07	0.02			0.01	30
Sum	0.08	0.02	0.02	0.06	0.07	0.16	0.23	0.22	0.25	0.19	0.10	0.11	0.14	0.25	0.04	0.15	0.19	0.41	0.32	0.29	0.17	0.08	0.06	0.07	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 2005: Westford



Wind Rose: April 2005
Westford



Maximum direction of wind: 316.5 miles from 180°.
2241.4 total miles of wind.