

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

October 2005

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

Date	Temperature					Humidity Mean	Deq F Days F		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	
	Maximum	Minimum	Average	Mean	Dew Point		Heating Base 65°F	Cooling Base 65°F			Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg	Res	Res	Peak		Minute		
																			Speed	Dir	Speed		Dir	Speed	Dir
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	68.6	41.6	55.1	55.5	44	67	10	0	.....	0	0.00	0.0	30.25	30.13	30.168	3.7	3.6	193	22	SSW	8	195	
2	75.8	46.4	61.1	59.2	52	79	4	0	.....	0	0.00	0.0	30.35	30.24	30.302	0.5	0.3	225	8	SSW	0	0	
3	77.4	48.6	63.0	62.5	52	73	2	0	.....	0	0.00	0.0	30.34	30.25	30.291	2.2	2.1	191	16	S	0	0	
4	76.5	58.7	67.6*	65.6	57	75	0	2	.....	0	0.00	0.0	30.29	30.17	30.234	4.1	4.1	194	18	SSW	0	0	
5	77.7*	56.5	67.1	66.3	57	73	0	2	.....	0	0.00	0.0	30.25	30.10	30.174	3.1	3.0	189	19	S	0	0	
6	77.0	56.2	66.6	66.5	60	81	0	1	.....	0	0.00	0.0	30.12	29.93	30.033	3.5	3.3	189	20	S	0	0	
7	72.1	49.2	60.6	63.1	60	90	5	0	.....	0	0.39	0.0	29.94	29.85	29.907	4.4	3.4	184	27	SSW	0	0	
8	49.2	40.2	44.7	43.0	42	97	21	0	.....	0	1.24	0.0	29.99	29.84	29.936	1.8	1.7	1	16	N	0	0	
9	52.2	42.2	47.2	46.8	46	96	18	0	.....	0	0.03	0.0	30.08	29.93	30.002	0.7	0.6	341	10	N	0	0	
10	56.9	47.9	52.4	51.7	50	93	13	0	.....	0	0.02	0.0	30.11	30.05	30.075	0.5	0.4	319	7	WNW	0	0	
11	55.3	47.4	51.4	50.2	49	96	14	0	.2.....	0	0.03	0.0	30.20	30.05	30.125	0.5	0.5	353	12	N	0	0	
12	58.4	42.9	50.7	49.4	43	81	15	0	.....	0	0.00	0.0	30.31	30.20	30.277	0.3	0.1	37	10	SSE	0	0	
13	52.6	46.5	49.5	49.9	46	87	16	0	.....	0	0.17	0.0	30.28	30.14	30.233	1.1	0.7	153	18	SE	0	0	
14	59.0	50.5	54.8	53.9	53	96	11	0	.....	0	0.66	0.0	30.14	29.82	30.017	0.5	0.3	174	10	SSW	0	0	
15	56.7	48.0	52.4	53.0	52	97	13	0	.....	0	0.94	0.0	29.82	29.32	29.539	1.6	1.3	279	25	WNW	0	0	
16	48.6	44.3	46.4	46.6	44	91	19	0	.....	0	1.08	0.0	29.40	29.24	29.294	11.4	11.1	282	33	W	0	0	
17	47.9	42.3	45.1	44.6	41	87	20	0	.....	0	0.28	0.0	29.60	29.40	29.538	6.9	6.6	285	30	WNW	0	0	
18	49.5	40.1	44.8	45.8	45	96	21	0	.....	0	0.51	0.0	29.65	29.44	29.516	2.9	2.4	210	18	WNW	0	0	
19	53.2	40.2	46.7	47.3	44	87	19	0	.....	0	0.14	0.0	29.79	29.48	29.661	5.5	3.7	229	33	WNW	0	0	
20	49.9	34.1	42.0	40.4	33	76	23	0	.....	0	0.00	0.0	29.99	29.79	29.912	3.0	2.8	284	18	W	0	0	
21	48.5	28.4	38.4	36.8	32	83	27	0	.....	0	0.00	0.0	30.06	29.99	30.024	0.6	0.5	313	11	WNW	0	0	
22	51.0	26.6*	38.8	37.8	33	84	27	0	.....	0	0.12	0.0	30.00	29.66	29.874	0.3	0.3	0	8	N	0	0	
23	42.6	34.9	38.8	39.0	38	96	27	0	.....	0	0.56	0.0	29.87	29.60	29.706	0.9	0.9	1	10	N	0	0	
24	48.6	38.5	43.5	41.6	39	92	22	0	.....	0	0.04	0.0	30.02	29.87	29.972	0.2	0.2	22	7	NNE	0	0	
25	41.6	31.5	36.5	37.2	36	96	29	0	.....	5	0.55	4.5	29.94	29.51	29.718	1.8	1.8	359	21	N	0	0	
26	36.2	30.9	33.6*	33.6	33	97	32	0	.....	3	1.01	2.0	29.90	29.48	29.646	1.7	1.7	316	21	NW	0	0	
27	37.2	32.8	35.0	34.8	29	80	30	0	.....	2	0.22	0.0	30.22	29.90	30.072	1.6	1.5	293	14	WNW	0	0	
28	40.3	32.7	36.5	34.8	27	75	29	0	.....	1	0.01	0.0	30.33	30.22	30.278	0.4	0.2	214	5	S	0	0	
29	43.8	29.7	36.8	36.0	30	79	29	0	.....	1	0.00	0.0	30.26	30.02	30.162	1.1	1.0	314	13	NW	0	0	
30	56.5	29.8	43.1	44.1	37	78	22	0	.....	0	0.00	0.0	30.09	30.02	30.048	3.1	2.7	217	19	WSW	0	0	
31	56.2	42.2	49.2	50.3	38	63	16	0	.....	0	T	0.0	30.07	29.93	30.006	4.8	4.4	192	22	SSW	0	0	
Sum	Sum	-----	-----	---	----	Ttl	Ttl		For the month:														---
1717	1282					534	5		Number of Days		8.00	6.5	30.35	29.24	29.959	2.4	1.3	241	33	W	8	195	
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg		
55.4	41.3	48.4	48.0	43	85.2	----	----		≥.01 inch	19	40.77	6.5	2	16	-----	----	----	---	16+	1			
Number of Days							Season to Date		Snow, Ice ≥1.0 inch		Greatest in 24 Hours and Dates				Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date								
Max Temperature			Min Temperature			744	445	Thunder		0	Precipitation		Snow, Ice Plts										
≥ 90°F	< 32°F	< 32°F	< 0°F	----	----	----	----	Heavy Fog		1	1.61	7- 8	4.5	25	5			25					
0	0	6	0	----	----	Clear		7	Partly Cloudy		4	Cloudy		20									

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
October 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
OCT 01																											
01		30.14	0.00	45	39	81	18	2	5		30.26	0.00	50	46	88	18	1	2		30.30	0.00	53	52	98	00	0	0
04		30.15	0.00	45	38	77	20	2	8		30.27	0.00	48	46	93	00	0	0		30.31	0.00	52	51	99	00	0	0
07		30.19	0.00	46	40	79	20	3	7		30.32	0.00	47	45	96	00	0	0		30.33	0.00	49	48	98	00	0	0
10		30.18	0.00	57	47	69	20	4	11		30.34	0.00	64	52	67	18	1	6		30.33	0.00	67	56	68	18	5	11
13		30.16	0.00	65	50	57	20	5	11		30.32	0.00	73	55	53	22	0	2		30.29	0.00	75	58	56	18	6	11
16		30.13	0.00	68	48	48	20	4	11		30.29	0.00	75	58	55	29	1	4		30.25	0.00	76	46	34	18	5	12
19		30.16	0.00	60	46	61	18	3	11		30.30	0.00	59	55	87	00	0	0		30.26	0.00	63	53	69	18	0	1
22		30.22	0.00	57	47	70	20	2	5		30.30	0.00	54	54	97	00	0	0		30.26	0.00	63	53	70	18	2	6
OCT 02																											
OCT 03																											
OCT 04																											
OCT 05																											
OCT 06																											
OCT 07																											
OCT 08																											
OCT 09																											
OCT 10																											
OCT 11																											
OCT 12																											
OCT 13																											
OCT 14																											
OCT 15																											
OCT 16																											
OCT 17																											
OCT 18																											

MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.05	0.09	0.13	0.15	0.20	0.27	0.35	0.45	0.55	0.63	0.73	0.82
Ended: Date	18	08	08	08	08	08	08	08	08	08	08	08
Ended: Time	1850	0325	0325	0330	0325	0325	0325	0330	0325	0330	0400	0430

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
October 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
OCT 19									OCT 20									OCT 21									
01		29.68	0.01	47	46	96	27	6	14	29.81	0.00	40	34	78	29	7	14	30.00	0.00	35	33	92	00	0	0		
04		29.73	0.00	46	45	96	29	1	3	29.84	0.00	39	31	72	29	7	11	30.02	0.00	31	29	93	00	0	0		
07		29.76	0.00	45	43	93	24	2	8	29.89	0.00	37	31	81	24	3	7	30.04	0.00	29	28	95	00	0	0		
10		29.72	0.00	47	45	91	18	1	5	29.92	0.00	43	36	76	24	5	11	30.06	0.00	39	34	81	04	1	4		
13		29.63	0.00	49	43	79	20	6	13	29.93	0.00	44	36	72	29	2	7	30.03	0.00	46	32	60	31	2	6		
16		29.53	0.00	49	44	81	18	7	25	29.93	0.00	47	34	61	31	5	11	30.00	0.00	48	33	56	31	3	6		
19		29.49	0.00	53	46	77	20	10	22	29.96	0.00	39	32	77	00	0	0	30.02	0.00	36	31	84	00	0	0		
22		29.73	0.00	42	39	89	27	10	25	29.98	0.00	36	32	85	00	0	0	30.02	0.00	31	29	94	00	0	0		
OCT 22									OCT 23									OCT 24									
01		30.00	0.00	29	28	96	00	0	2	29.64	0.01	37	36	96	00	0	2	29.89	0.00	39	39	98	00	0	0		
04		29.97	0.00	28	27	96	00	0	0	29.61	0.00	35	34	97	00	0	2	29.93	0.00	39	38	97	00	0	0		
07		29.95	0.00	28	27	96	00	0	0	29.63	0.01	36	35	98	33	2	8	29.98	0.00	39	38	98	00	0	0		
10		29.93	0.00	37	36	93	04	1	5	29.65	0.00	38	37	97	00	1	5	30.01	0.00	42	40	96	02	1	3		
13		29.86	0.00	48	33	56	02	2	5	29.69	0.00	41	40	95	00	2	7	30.00	0.00	46	40	81	00	0	0		
16		29.81	0.00	50	33	52	02	1	6	29.73	0.00	42	40	90	00	1	6	29.99	0.00	46	38	76	04	0	2		
19		29.78	0.00	43	37	77	18	0	3	29.82	0.00	41	40	96	00	0	2	30.00	0.00	41	40	96	00	0	0		
22		29.72	0.00	40	38	92	00	0	0	29.85	0.00	40	39	97	00	0	0	29.98	0.00	41	40	97	00	0	0		
OCT 25									OCT 26									OCT 27									
01		29.92	0.00	41	39	95	33	1	6	29.50	0.00	32	31	98	00	0	0	29.92	0.01	36	33	90	27	4	7		
04		29.86	0.00	41	40	96	00	1	3	29.48	0.00	31	31	98	00	0	0	29.96	0.00	34	32	89	29	1	3		
07		29.81	0.00	41	40	96	33	1	4	29.51	0.00	31	31	98	00	0	0	30.01	0.00	35	29	80	29	3	6		
10		29.76	0.00	40	39	96	04	2	10	29.58	0.00	33	32	98	00	0	0	30.07	0.00	36	28	74	29	3	6		
13		29.69	0.00	39	37	95	00	2	7	29.65	0.01	35	33	95	31	3	11	30.09	0.00	36	26	67	31	5	10		
16		29.61	0.02	34	33	96	00	5	12	29.73	0.01	36	35	97	31	5	13	30.12	0.00	35	27	70	27	0	2		
19		29.60	0.00	32	31	97	00	1	5	29.80	0.00	36	35	98	31	6	12	30.17	0.00	34	27	75	29	0	1		
22		29.56	0.00	32	31	98	00	0	0	29.86	0.01	36	34	95	31	3	7	30.20	0.00	33	28	81	00	0	0		
OCT 28									OCT 29									OCT 30									
01		30.23	0.00	33	27	77	00	0	0	30.26	0.00	33	29	86	00	0	0	30.02	0.00	32	30	95	18	1	2		
04		30.25	0.00	33	27	79	18	1	3	30.24	0.00	34	31	88	00	0	0	30.04	0.00	32	31	94	00	0	0		
07		30.28	0.00	33	28	82	22	1	3	30.23	0.00	34	31	90	00	0	2	30.08	0.00	36	34	93	18	3	5		
10		30.32	0.00	34	27	75	15	1	3	30.22	0.00	37	29	74	33	4	10	30.08	0.00	47	40	74	22	4	8		
13		30.30	0.00	39	25	56	24	0	2	30.16	0.00	41	28	61	31	4	12	30.03	0.00	54	41	62	22	6	12		
16		30.29	0.00	38	24	55	02	1	2	30.09	0.00	44	30	58	31	4	12	30.02	0.00	52	42	67	20	4	8		
19		30.28	0.00	34	29	81	00	0	0	30.08	0.00	35	30	82	00	0	2	30.05	0.00	49	42	78	22	3	9		
22		30.27	0.00	34	29	84	00	0	0	30.05	0.00	34	31	89	00	0	0	30.06	0.00	49	38	65	20	2	6		
OCT 31																											
01		30.06	0.00	45	38	76	18	4	7																		
04		30.07	0.00	45	37	73	20	5	10																		
07		30.07	0.00	43	34	71	18	4	10																		
10		30.02	0.00	51	37	57	18	6	14																		
13		29.96	0.00	55	37	52	18	7	14																		
16		29.95	0.00	54	37	52	20	7	13																		
19		29.97	0.00	54	39	56	20	3	7																		
22		29.99	0.00	55	43	66	27	2	5																		

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

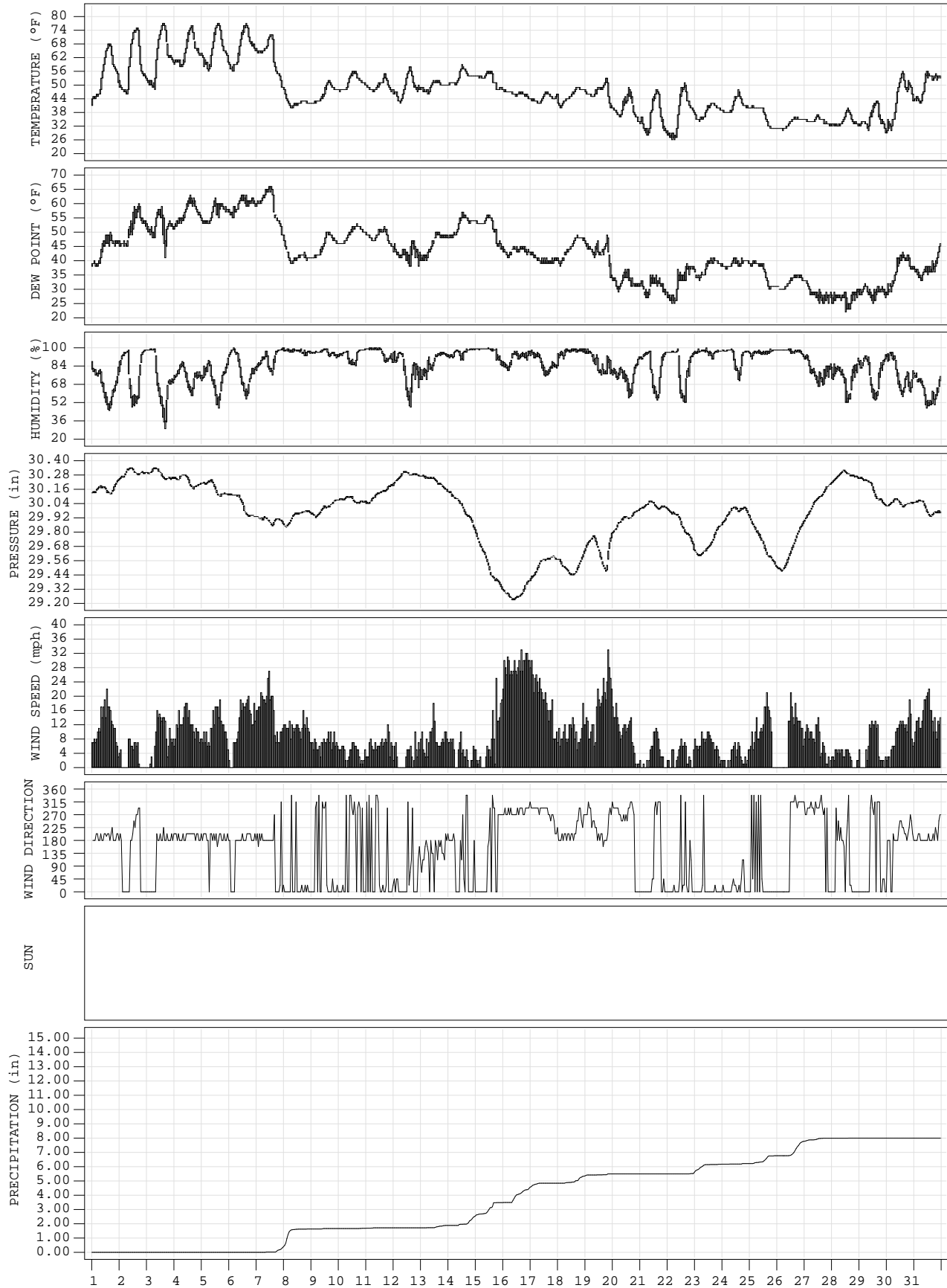
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.961	45	42	90	2.2	26	1.2
04		29.960	44	41	90	2.1	26	1.2
07		29.975	44	41	92	2.1	24	1.3
10		29.979	49	44	85	2.8	23	1.5
13		29.954	53	45	76	3.4	23	1.6
16		29.935	53	44	74	3.0	25	1.5
19		29.950	49	44	85	2.1	25	1.1
22		29.961	47	43	87	2.0	26	1.4

HOURLY PRECIPITATION (Water Equivalent)
October 2005: Westford

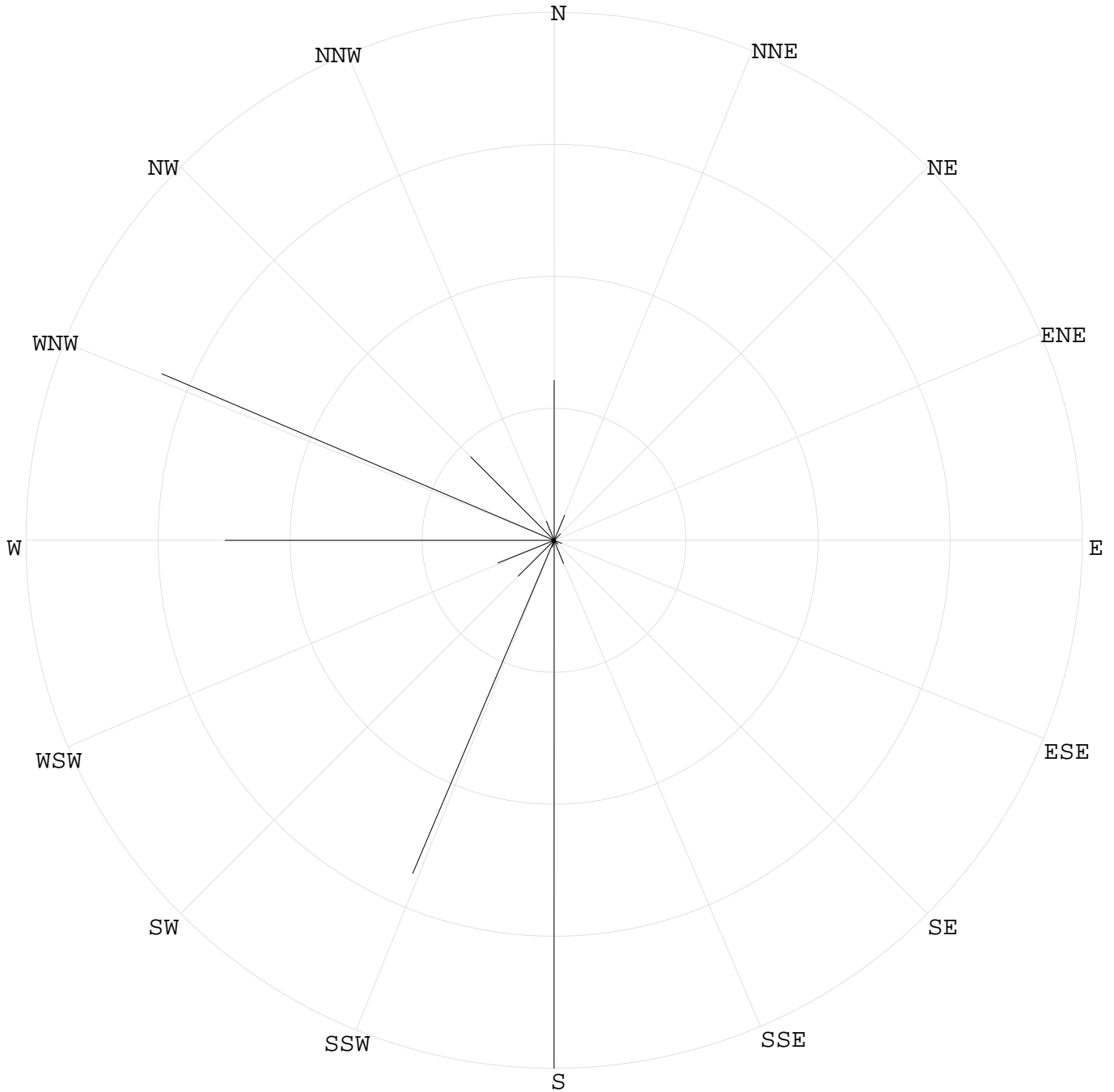
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																									06
07																									07
08	0.09	0.17	0.31	0.29	0.18	0.10	0.04	0.01	0.01	0.01	0.02		0.01				0.06	0.07	0.02	0.03	0.04	0.08	0.08	08	
09																									09
10																									10
11	0.01				0.01		0.01																		11
12																									12
13						0.01							0.03	0.03	0.01	0.02	0.02		0.01	0.02	0.01	0.01			13
14													0.07	0.01				0.08	0.12	0.05	0.07	0.11	0.07	0.04	14
15	0.08	0.01	0.03	0.02		0.01	0.01	0.01	0.01	0.01	0.05	0.11	0.12	0.12	0.01	0.06	0.28		0.01					15	
16	0.01																								16
17	0.04	0.08	0.03	0.04	0.02	0.02	0.03	0.02																	17
18							0.02	0.02																	18
19	0.04	0.02																							19
20																									20
21																									21
22																									22
23	0.10	0.05	0.03	0.06	0.08	0.04	0.06	0.06	0.04	0.01					0.01					0.01	0.01		0.10	23	
24																								0.01	24
25				0.03	0.03	0.02		0.01	0.01	0.01	0.01	0.01	0.02	0.06	0.08	0.08	0.11	0.07				0.01		25	
26																									26
27	0.02	0.02	0.03	0.02	0.01				0.01	0.01	0.02	0.03	0.03	0.04	0.07	0.09	0.12	0.15	0.12	0.09	0.13	0.08	0.04	0.04	27
28																0.01									28
29																0.01									29
30																									30
31																									31
Sum	0.39	0.35	0.43	0.46	0.33	0.20	0.18	0.13	0.25	0.31	0.33	0.30	0.33	0.24	0.32	0.65	0.35	0.39	0.49	0.40	0.26	0.27	0.28	0.36	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
October 2005: Westford



Wind Rose: October 2005
Westford



Maximum direction of wind: 442.7 miles from 180°.
1792.9 total miles of wind.