

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

May 2024

Station: Westford

Latitude: 43° 37' 38" N Longitude: 73° 02' 30" W Elevation (Ground): 850 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						Solar Radiation	
	Maximum	Minimum	Average	Mean	Dew Point		Heating Base 65°F	Cooling Base 65°F			Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg Speed	Res Speed	Res Dir	Peak		2 Minute		
																			Speed	Dir	Speed		Dir
1	2	3	4A	4B	5	6	7	8		11	12	13	14	15	16	17	18	19	20	21	22	23	
1	63.9	41.3	52.6	49.8	46	89	12	0	.2	0	0.03	0.0	29.93	29.84	29.888	0.7	0.6	271	9	W	6	253	152
2	64.8	47.1	56.0	54.5	51	89	9	0	.3	0	0.18	0.0	30.07	29.74	29.894	2.1	0.6	251	18	N	9	162	126
3	70.4	46.8	58.6	56.8	49	78	6	0	.....	0	0.00	0.0	30.17	30.06	30.101	0.8	0.5	264	13	W	9	268	199
4	72.5	54.5	63.5	61.5	49	65	1	0	.....	0	0.00	0.0	30.22	30.11	30.170	3.1	3.0	171	17	SSW	9	167	171
5	55.2	47.1	51.1	49.5	46	88	14	0	.....	0	0.68	0.0	30.17	29.98	30.076	4.8	4.7	170	24	SSE	12	181	44
6	72.1	49.5	60.8	58.0	50	77	4	0	.....	0	0.08	0.0	29.99	29.81	29.894	3.3	2.4	198	23	SSE	12	181	242
7	69.8	43.8	56.8	57.4	43	62	8	0	.....	0	0.00	0.0	29.83	29.67	29.757	1.4	1.3	304	16	W	10	269	310
8	63.2	44.7	54.0	50.7	47	86	11	0	.3	0	0.65	0.0	29.68	29.42	29.553	2.0	1.3	246	21	SSE	11	171	89
9	61.5	42.7	52.1	49.2	44	83	12	0	.....	0	0.00	0.0	29.81	29.62	29.752	1.7	1.5	323	16	NW	9	267	172
10	59.2	39.7	49.5*	50.4	43	77	15	0	.....	0	0.00	0.0	29.80	29.74	29.771	0.7	0.7	256	12	W	7	252	152
11	65.6	41.1	53.3	52.7	44	74	11	0	.....	0	T	0.0	29.81	29.71	29.761	1.2	1.1	185	12	SSE	9	172	206
12	56.1	45.9	51.0	49.8	44	81	14	0	.....	0	0.10	0.0	29.90	29.76	29.824	1.7	1.5	174	20	SSE	7	173	98
13	68.9	45.7	57.3	56.7	47	73	7	0	.....	0	0.04	0.0	29.97	29.84	29.901	3.3	3.3	179	24	S	10	215	188
14	74.6	53.6	64.1	61.5	56	84	0	0	.3	0	0.33	0.0	29.89	29.77	29.825	2.4	2.4	178	19	SE	14	186	161
15	70.3	55.1	62.7	61.1	57	88	2	0	.....	0	0.01	0.0	29.83	29.79	29.807	1.5	1.4	194	15	SW	7	195	166
16	68.6	54.9	61.8	61.7	58	89	3	0	.....	0	0.05	0.0	29.89	29.77	29.829	0.2	0.2	285	11	W	7	278	114
17	77.7	49.7	63.7	63.7	55	75	1	0	.....	0	0.00	0.0	29.98	29.86	29.914	0.7	0.6	211	10	W	6	253	223
18	72.7	53.3	63.0	62.8	53	71	2	0	.....	0	0.02	0.0	30.00	29.91	29.948	0.8	0.7	127	12	SSE	6	164	181
19	76.6	49.7	63.1	62.5	55	77	1	0	.....	0	0.00	0.0	30.00	29.90	29.947	0.5	0.1	114	9	NNE	5	26	218
20	84.4	53.2	68.8	68.3	59	75	0	4	.....	0	0.00	0.0	29.96	29.83	29.899	1.3	1.3	182	14	S	7	174	288
21	83.2	58.6	70.9	69.1	62	80	0	6	.3	0	0.44	0.0	29.89	29.79	29.839	1.6	1.3	197	21	W	12	256	214
22	87.4*	61.2	74.3*	73.6	65	77	0	9	.....	0	0.00	0.0	29.83	29.67	29.759	2.1	2.1	181	18	SSE	8	207	278
23	78.5	57.9	68.2	69.9	58	68	0	4	.....	0	0.00	0.0	29.78	29.68	29.726	2.8	2.6	235	20	WSW	11	254	256
24	71.6	46.7	59.1	61.3	50	67	5	0	.....	0	0.00	0.0	29.84	29.65	29.729	2.4	1.9	241	24	SW	13	267	277
25	70.7	40.1	55.4	56.4	48	76	9	0	.....	0	0.00	0.0	29.88	29.80	29.840	0.5	0.3	238	10	WSW	6	271	258
26	78.2	51.9	65.0	65.0	56	74	0	0	.....	0	0.00	0.0	29.92	29.83	29.880	0.5	0.4	301	10	WNW	6	257	304
27	73.7	60.6	67.1	66.0	60	82	0	3	.....	0	1.49	0.0	29.86	29.54	29.712	2.9	2.7	149	29	SSE	12	143	184
28	72.9	55.4	64.2	62.9	59	88	1	0	.....	0	0.09	0.0	29.73	29.52	29.587	2.5	2.3	228	19	WSW	10	241	190
29	65.7	44.1	54.9	55.8	50	82	10	0	.....	0	0.01	0.0	29.95	29.73	29.866	1.0	1.0	269	14	W	7	250	227
30	67.5	41.0	54.3	54.0	44	72	10	0	.....	0	0.00	0.0	30.02	29.94	29.978	0.7	0.7	327	14	N	6	353	298
31	73.1	42.4	57.8	58.4	46	65	7	0	.....	0	0.00	0.0	30.10	30.01	30.050	1.5	1.4	256	19	WSW	9	262	285
Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		Total	Total	For the month:										---	
2191	1519					175	26			4.20	0.0	30.22	29.42	29.854	1.7	1.1	206	29	SSE	14	186		
Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg			
70.7	49.0	59.8	59.1	52	77.8	----	----	≥.01 inch	15	18.87	90.9	4	8	-----	----	----	---	27	14	202			
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			6689	26	Thunder		4	Precipitation		Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog		1	1.52	27-28		0.0		-			0						
0	0	0	0	----	----	Clear		7	Partly Cloudy		13		Cloudy			11							

NOTES:

- Units: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
- Column 4A: value is (MAX+MIN) ÷ 2.
- Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.
- 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.

OBSERVATIONS AT 3-HOUR INTERVALS

May 2024: Westford

Hour	MAY 19									MAY 20									MAY 21								
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Direction	Speed	Gust
00	0	29.94	0.00	53	50	89	20	0	0	0	29.94	0.00	55	53	92	05	0	0	0	29.84	0.00	64	58	80	17	0	0
03	0	29.94	0.00	50	49	94	20	0	0	0	29.93	0.00	54	52	93	19	0	3	0	29.84	0.00	63	58	83	18	0	5
06	21	29.97	0.00	52	50	94	19	0	0	21	29.93	0.00	55	53	93	17	1	8	26	29.85	0.00	60	57	91	19	2	5
09	320	30.00	0.00	64	57	79	13	1	6	499	29.94	0.00	68	61	79	19	3	12	482	29.86	0.00	71	64	78	18	3	10
12	418	29.98	0.00	70	57	64	10	2	4	870	29.93	0.00	77	64	66	12	2	8	417	29.87	0.00	76	65	70	23	3	9
15	269	29.92	0.00	74	57	56	11	1	4	671	29.87	0.00	82	63	53	23	2	8	766	29.81	0.00	83	66	57	18	0	6
18	438	29.91	0.00	76	57	52	01	2	7	165	29.83	0.00	81	63	55	19	2	5	49	29.80	0.00	77	65	66	21	0	4
21	0	29.93	0.00	62	56	80	05	0	0	0	29.85	0.00	68	61	79	18	0	4	0	29.82	0.00	63	60	93	15	0	1
MAY 22									MAY 23									MAY 24									
00	0	29.82	0.00	63	62	95	19	1	9	0	29.68	0.00	66	62	86	15	1	6	0	29.74	0.00	59	46	62	17	1	7
03	0	29.79	0.00	63	61	93	15	2	7	0	29.70	0.00	67	62	84	18	1	5	0	29.72	0.00	56	47	73	18	1	5
06	28	29.82	0.00	62	60	94	18	3	6	76	29.71	0.00	66	63	90	18	3	12	19	29.71	0.00	55	49	79	19	1	3
09	406	29.82	0.00	72	66	84	18	5	18	589	29.73	0.00	74	67	78	22	3	7	534	29.66	0.00	67	56	67	18	3	14
12	756	29.79	0.00	80	69	70	15	4	9	454	29.77	0.00	73	63	73	26	5	13	274	29.67	0.00	71	57	62	25	4	16
15	772	29.73	0.00	86	70	58	22	4	10	817	29.72	0.00	77	58	53	18	3	12	805	29.71	0.00	70	51	52	27	7	14
18	325	29.68	0.00	85	67	55	17	3	14	383	29.71	0.00	77	56	49	23	4	12	364	29.76	0.00	65	49	56	26	9	17
21	0	29.69	0.00	76	65	69	13	1	10	0	29.75	0.00	65	45	48	24	2	7	0	29.82	0.00	53	44	73	02	0	0
MAY 25									MAY 26									MAY 27									
00	0	29.84	0.00	47	44	89	26	0	0	0	29.83	0.00	55	52	88	22	0	0	0	29.86	0.00	62	56	81	10	0	6
03	0	29.85	0.00	43	41	92	26	0	0	0	29.84	0.00	54	50	86	22	0	0	0	29.83	0.00	66	58	76	09	2	9
06	19	29.85	0.00	41	39	95	26	0	0	39	29.87	0.00	55	52	89	22	0	0	26	29.84	0.00	64	58	82	09	0	9
09	522	29.87	0.00	59	51	75	26	2	4	527	29.92	0.00	67	59	75	30	0	4	193	29.79	0.00	65	60	82	10	2	10
12	710	29.86	0.00	66	50	58	24	1	7	810	29.91	0.00	72	61	67	26	4	8	724	29.73	0.00	71	64	77	11	5	20
15	348	29.83	0.00	67	51	56	22	0	5	809	29.89	0.00	76	60	58	35	0	4	612	29.64	0.00	72	64	75	17	7	25
18	90	29.82	0.00	66	52	62	22	0	0	311	29.88	0.00	77	58	52	31	0	4	54	29.60	0.00	66	62	87	10	3	11
21	0	29.81	0.00	57	52	85	22	0	0	0	29.88	0.00	62	56	81	02	0	0	0	29.56	0.04	63	61	94	13	2	17
MAY 28									MAY 29									MAY 30									
00	0	29.57	0.00	61	59	95	16	0	5	0	29.73	0.00	56	54	93	27	0	3	0	29.95	0.00	44	41	90	22	0	0
03	0	29.53	0.00	61	60	96	20	2	6	0	29.76	0.00	54	52	93	28	1	7	0	29.94	0.00	42	40	94	23	0	0
06	16	29.56	0.00	61	60	97	18	0	3	7	29.82	0.00	52	50	93	26	0	8	28	29.97	0.00	42	41	96	23	0	0
09	279	29.56	0.00	67	61	81	18	2	12	114	29.87	0.00	52	50	93	24	0	7	359	30.00	0.00	55	50	82	06	0	5
12	360	29.56	0.00	66	62	85	24	2	13	631	29.91	0.00	58	53	82	06	1	11	902	29.99	0.00	64	47	54	34	3	12
15	315	29.57	0.00	69	60	73	22	5	13	041	29.91	0.00	64	54	68	26	1	7	522	29.97	0.00	67	46	48	24	0	9
18	46	29.62	0.00	62	57	85	25	6	13	378	29.90	0.00	65	51	61	24	0	7	380	29.97	0.00	66	42	42	33	0	8
21	0	29.68	0.00	57	55	93	23	3	9	0	29.93	0.00	50	45	81	22	0	0	0	30.00	0.00	51	43	74	02	0	0
MAY 31																											
00	0	30.02	0.00	48	42	81	02	0	0																		
03	0	30.03	0.00	43	40	91	02	0	0																		
06	21	30.08	0.00	43	40	91	02	0	0																		
09	501	30.10	0.00	62	48	60	20	2	5																		
12	861	30.08	0.00	68	51	53	26	3	9																		
15	559	30.03	0.00	71	51	48	25	3	13																		
18	380	30.01	0.00	71	47	42	26	5	13																		
21	0	30.03	0.00	58	45	62	23	0	3																		

WEATHER NOTES

NOTES:
 Units: 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 pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

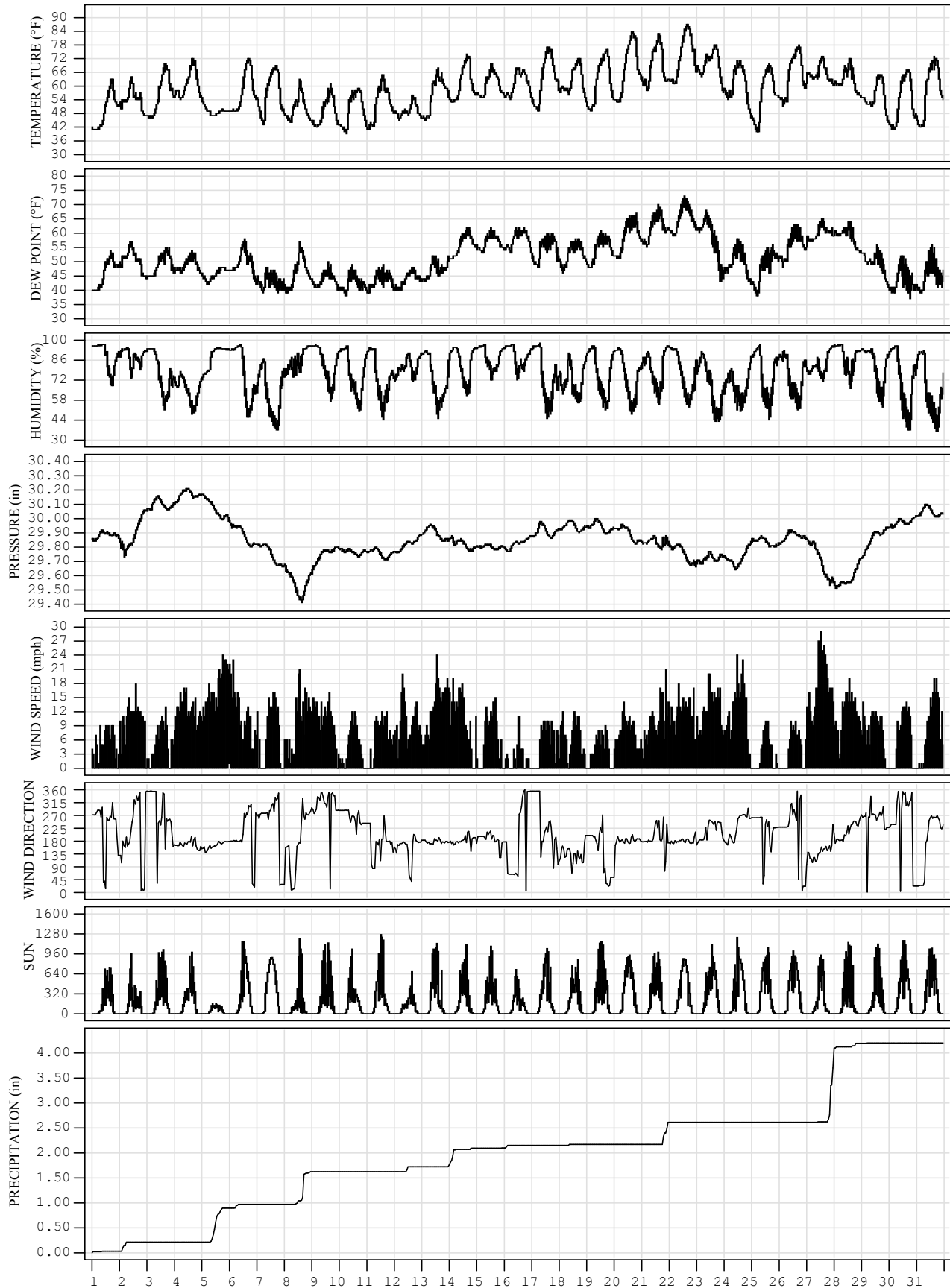
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	29.854	53	49	86	0.7	18	0.7
03	0	29.848	52	48	88	1.0	18	0.6
06	18	29.863	51	48	90	1.0	18	0.8
09	335	29.880	59	53	81	2.0	19	1.6
12	497	29.867	64	55	72	2.5	23	1.2
15	504	29.838	68	54	63	2.3	22	1.3
18	202	29.831	67	53	63	2.3	23	1.2
21	0	29.852	57	51	80	0.9	20	0.5

HOURLY PRECIPITATION (Water Equivalent)
May 2024: Westford

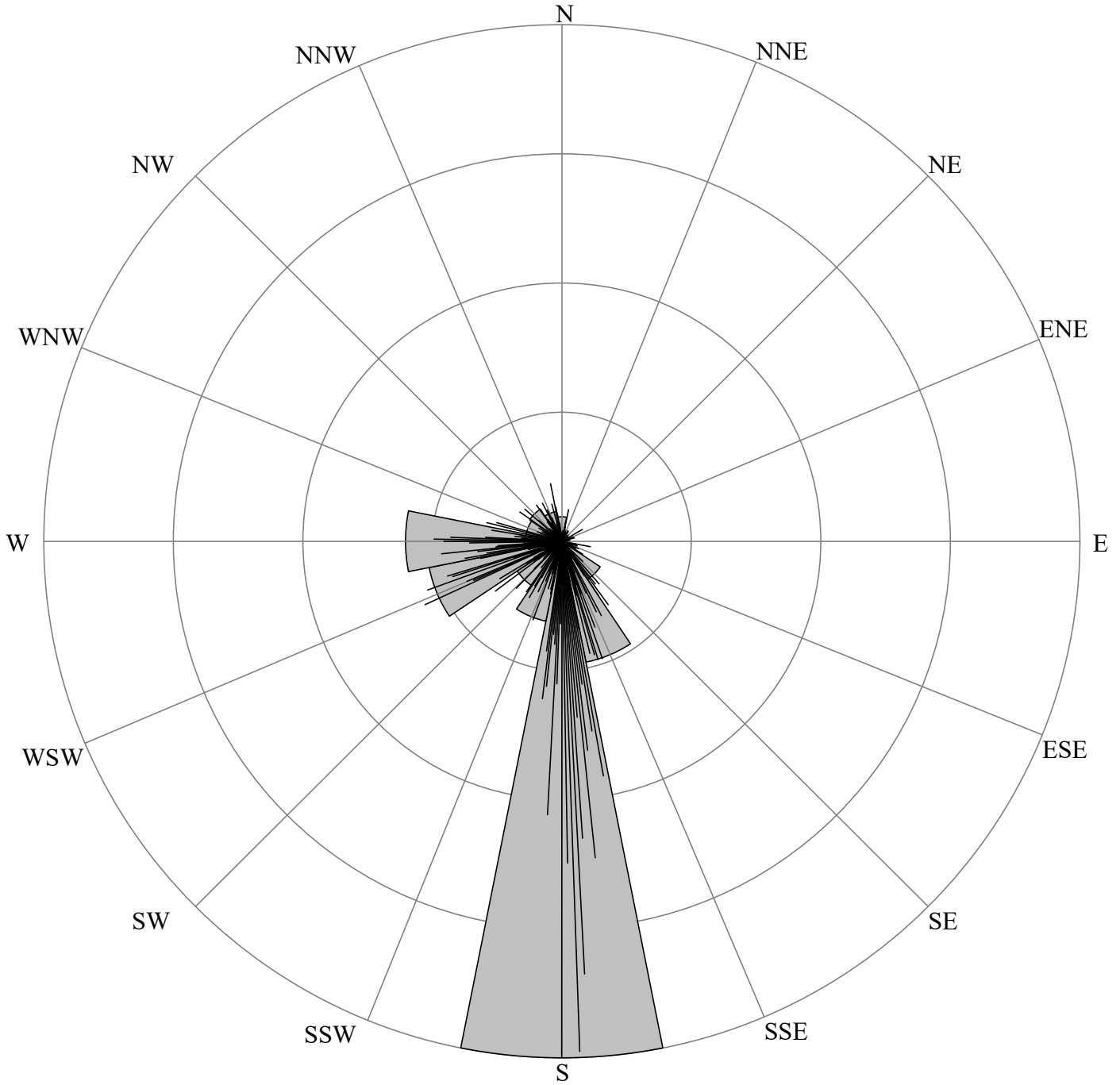
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date	
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12		
01	0.02																								01	
02																										02
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30																										30
31																										31
Sum	0.07	0.08	0.19	0.17	0.02	0.11	0.01	0.04	0.09	0.09	0.16	0.25	0.12	0.04	0.02	0.12	0.51	0.03	0.29	0.16	0.60	0.11	0.48	0.44	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
May 2024: Westford



Wind Rose: May 2024
Westford



Maximum direction of wind: 57.9 miles from 180°
Maximum sector of wind: 511.6 miles from S
1270.4 total miles of wind