

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2022

Station: Westford
 Latitude: 44° 37' 38" N Longitude: 73° 02' 29" W Elevation (Ground): 850 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						Solar Radiation		
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating Base 65°F			Cooling Base 65°F	Water Equivalent	Ice Pellets Snow	Maximum	Minimum	Mean	Avg	Res	Res	Peak			2 Minute	
																				Speed	Dir		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	30.5	-3.1	13.7	17.2	11	78	51	0	.....	5	0.07	0.7	30.31	29.82	30.034	4.0	3.7	173	26	S	13	168	33
2	30.8	11.9	21.3	21.5	14	73	43	0	.....	5	0.04	0.7	30.00	29.77	29.929	1.8	1.4	255	17	SW	11	267	122
3	24.3	0.7	12.5	14.7	7	72	52	0	.....	6	0.09	2.0	30.40	29.77	30.078	4.2	3.9	283	20	WNW	12	288	123
4	23.8	-5.1*	9.3*	13.0	4	68	55	0	.....	5	0.00	0.0	30.47	30.35	30.403	3.6	3.4	190	20	S	12	170	127
5	35.9	13.3	24.6	26.2	14	62	40	0	.....	5	0.00	0.0	30.48	30.13	30.368	2.4	2.2	178	16	S	7	160	153
6	60.1	35.5	47.8	46.7	37	70	17	0	.....	T	0.23	0.0	30.13	29.53	29.739	10.2	9.0	190	39	SW	21	257	87
7	43.2	31.1	37.2	37.5	33	83	28	0	.....	T	0.22	T	29.89	29.23	29.626	3.7	3.1	231	32	W	17	261	31
8	32.3	16.4	24.3	25.6	18	73	41	0	.....	T	T	T	30.15	29.56	29.963	5.9	5.8	267	29	W	17	268	175
9	38.8	16.6	27.7	28.4	21	76	37	0	.....	T	0.01	0.1	30.15	29.90	30.014	4.1	3.9	171	22	SSE	11	171	85
10	43.1	22.6	32.8	31.7	23	72	32	0	.....	T	0.00	0.0	30.11	29.97	30.054	3.1	2.6	211	17	WSW	11	253	180
11	45.1	22.2	33.6	35.4	27	71	31	0	.....	T	0.00	0.0	30.10	29.64	29.942	2.4	2.3	177	24	S	11	180	131
12	43.1	15.8	29.4	26.0	22	87	35	0	.....	6	0.86	6.4	29.64	29.29	29.433	5.5	4.6	255	28	W	17	276	7
13	26.5	11.4	18.9	18.8	11	73	46	0	.....	6	0.00	0.0	30.11	29.40	29.886	6.5	6.0	242	26	W	16	262	115
14	42.9	21.0	32.0	31.4	23	71	33	0	.....	4	T	T	30.27	30.11	30.191	4.9	4.8	181	20	S	12	229	124
15	41.2	30.8	36.0	35.4	30	81	29	0	.....	2	0.00	0.0	30.27	30.12	30.187	0.7	0.5	288	9	NW	5	265	108
16	50.2	30.7	40.5	38.8	33	81	24	0	.....	T	0.00	0.0	30.19	30.05	30.122	2.4	2.4	172	16	SSE	9	161	166
17	63.1*	43.3	53.2*	52.4	42	67	12	0	.....	H	0.00	0.0	30.05	29.81	29.917	7.3	7.3	171	29	SSE	15	171	212
18	59.8	37.2	48.5	47.3	44	87	16	0	.....	0	0.00	0.0	30.03	29.82	29.919	2.8	2.3	186	16	SSE	10	172	84
19	57.8	37.1	47.4	47.2	43	85	17	0	.....	0	0.08	0.0	30.00	29.55	29.757	2.6	2.5	154	22	SSE	12	158	87
20	48.3	34.6	41.4	42.4	40	90	23	0	.....	0	0.42	0.0	29.85	29.57	29.667	4.6	3.9	238	23	W	12	267	40
21	45.9	28.4	37.2	36.5	28	72	28	0	.....	0	0.00	0.0	30.05	29.85	29.932	4.7	4.5	275	28	W	16	261	170
22	38.9	24.6	31.8	30.5	18	61	33	0	.....	0	0.00	0.0	30.25	30.04	30.129	5.0	4.9	280	24	W	14	271	220
23	43.5	19.3	31.4	32.5	22	65	33	0	.....	0	0.00	0.0	30.30	30.09	30.224	0.9	0.3	308	18	SSE	10	168	181
24	46.5	34.3	40.4	39.4	34	81	24	0	.....	0	0.40	0.0	30.09	29.70	29.931	4.7	4.6	152	31	S	15	176	91
25	48.6	37.5	43.0	41.1	37	87	21	0	.....	0	0.42	0.0	29.71	29.41	29.506	2.7	2.5	214	20	WSW	13	235	70
26	44.2	33.7	39.0	38.3	33	82	26	0	.....	0	0.00	0.0	29.42	29.33	29.372	2.9	2.6	202	15	WSW	10	219	73
27	36.6	16.5	26.5	29.2	26	89	38	0	.....	1	0.26	1.3	29.71	29.34	29.490	1.5	1.3	216	15	WSW	9	226	73
28	16.6	8.5	12.6	11.9	6	78	52	0	.....	1	0.05	0.6	30.00	29.71	29.833	2.3	2.2	279	20	W	12	260	134
29	26.7	13.2	20.0	19.9	11	68	45	0	.....	T	0.00	0.0	30.13	30.00	30.067	5.6	5.5	274	23	WNW	14	263	144
30	38.8	17.6	28.2	28.4	15	58	36	0	.....	0	0.02	0.0	30.21	29.82	30.076	1.9	1.4	251	14	WNW	8	264	204
31	57.9	31.8	44.9	48.1	42	80	20	0	.....	0	0.19	0.0	29.82	29.32	29.525	6.6	6.5	172	29	SSE	14	176	64
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
1285	689					1018	0		Number of Days				3.34	11.8	30.48	29.23	29.913	3.9	2.6	215	39	SW	21	257
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
41.5	22.2	31.8	32.0	25	75.5	----	----		≥.01 inch	15			7.91	78.5	5	7	-----	----	---		Date	Date	Avg	
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	3	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			6560	0	Thunder	0	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	0.17	31	6.4	12				6			3+						
0	8	23	2	----	----	Clear	2	Partly Cloudy			12	Cloudy			17									

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.
 Column 23: Solar Radiation is measured in W/m² and is continuously averaged for 24 hours.

OBSERVATIONS AT 3-HOUR INTERVALS

March 2022: Westford

Hour	MAR 19									MAR 20									MAR 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	30.00	0.00	37	35	92	35	0	0	0	29.58	0.00	47	46	94	18	6	15	0	29.85	0.00	37	34	90	29	6	16
03	0	29.94	0.00	39	37	92	35	0	0	0	29.59	0.00	48	46	94	22	7	15	0	29.87	0.00	36	31	83	27	4	10
06	0	29.88	0.00	42	38	88	04	0	3	0	29.59	0.00	46	43	91	18	2	6	0	29.91	0.00	33	29	85	26	1	3
09	33	29.83	0.00	46	42	89	11	3	8	32	29.61	0.00	45	41	85	23	5	12	214	29.93	0.00	37	30	77	25	5	10
12	257	29.75	0.00	53	47	78	17	8	21	178	29.65	0.00	44	39	81	22	5	15	770	29.91	0.00	43	30	59	27	10	23
15	378	29.68	0.00	56	47	74	12	3	12	279	29.67	0.00	43	39	86	23	6	17	237	29.91	0.00	45	27	49	28	9	19
18	18	29.62	0.00	52	46	79	12	4	9	33	29.72	0.00	39	37	92	23	3	6	62	29.95	0.00	38	27	65	26	4	15
21	0	29.58	0.00	48	44	87	06	0	1	0	29.79	0.00	35	34	94	28	2	14	0	30.02	0.00	30	22	72	30	0	5
MAR 22									MAR 23									MAR 24									
00	0	30.05	0.00	29	22	73	27	7	13	0	30.24	0.00	27	18	68	33	0	2	0	30.09	0.00	41	28	60	13	2	8
03	0	30.06	0.00	27	19	69	26	5	13	0	30.24	0.00	25	17	71	02	0	8	0	30.01	0.00	36	32	84	13	5	11
06	0	30.06	0.00	26	15	64	25	6	15	0	30.27	0.00	21	16	82	01	0	0	0	29.99	0.00	35	32	88	14	8	16
09	313	30.10	0.00	28	13	52	28	11	18	323	30.30	0.00	28	21	75	01	0	4	44	30.00	0.00	36	33	89	14	7	23
12	840	30.13	0.00	32	18	54	28	9	19	691	30.28	0.00	37	23	56	29	1	8	248	29.93	0.00	42	35	75	14	8	27
15	807	30.15	0.00	37	21	51	27	8	17	299	30.21	0.00	42	24	47	10	1	6	236	29.89	0.00	45	37	72	12	5	15
18	241	30.18	0.00	36	20	52	29	10	19	230	30.17	0.00	43	28	55	26	0	2	28	29.85	0.00	41	35	80	15	5	13
21	0	30.20	0.00	31	19	62	28	3	11	0	30.16	0.00	38	27	64	26	0	0	0	29.81	0.00	41	36	83	12	0	3
MAR 25									MAR 26									MAR 27									
00	0	29.70	0.00	40	36	85	09	0	6	0	29.42	0.00	38	33	83	21	6	16	0	29.37	0.00	36	33	87	22	7	11
03	0	29.61	0.00	39	36	91	09	0	0	0	29.40	0.00	37	31	81	21	5	9	0	29.34	0.00	35	33	93	17	3	8
06	0	29.57	0.00	38	36	95	17	3	10	0	29.38	0.00	34	32	93	17	2	8	0	29.37	0.00	33	31	94	22	3	8
09	30	29.57	0.00	38	37	95	21	2	7	100	29.38	0.00	36	34	90	17	4	6	40	29.43	0.00	33	31	94	24	4	10
12	144	29.48	0.00	44	40	86	21	4	7	258	29.36	0.00	41	35	80	21	1	10	213	29.48	0.00	31	28	89	29	0	0
15	142	29.42	0.00	46	39	76	22	4	10	403	29.34	0.00	43	34	70	17	5	10	325	29.50	0.00	32	27	81	27	0	0
18	19	29.43	0.00	43	38	81	21	4	10	53	29.35	0.00	42	32	67	23	1	3	46	29.58	0.00	24	21	87	28	0	0
21	0	29.42	0.00	40	37	91	19	0	2	0	29.37	0.00	37	34	89	25	2	5	0	29.68	0.00	20	16	86	33	0	0
MAR 28									MAR 29									MAR 30									
00	0	29.71	0.00	17	14	88	27	0	0	0	30.00	0.00	13	9	83	28	6	11	0	30.13	0.00	22	9	58	26	3	13
03	0	29.73	0.00	12	7	80	29	0	0	0	30.01	0.00	14	9	80	26	9	14	0	30.13	0.00	19	10	67	28	3	9
06	0	29.76	0.00	9	2	73	26	0	0	0	30.06	0.00	14	10	86	28	3	12	0	30.14	0.00	19	10	69	28	2	7
09	243	29.79	0.00	11	4	73	29	0	0	160	30.09	0.00	17	10	75	26	5	15	366	30.20	0.00	25	11	54	28	4	11
12	283	29.81	0.00	12	7	79	28	0	0	578	30.08	0.00	22	11	62	30	6	20	689	30.17	0.00	31	13	47	25	3	9
15	359	29.82	0.00	15	7	71	26	6	14	304	30.05	0.00	26	12	54	28	8	16	404	30.08	0.00	37	15	41	22	1	7
18	77	29.90	0.00	12	7	80	29	3	13	120	30.07	0.00	25	13	58	26	8	14	33	30.00	0.00	36	16	45	17	0	5
21	0	29.99	0.00	11	6	79	26	4	9	0	30.11	0.00	23	11	60	27	7	13	0	29.90	0.00	32	26	77	09	0	2
MAR 31																											
00	0	29.82	0.00	32	29	89	12	1	4																		
03	0	29.74	0.00	35	28	75	16	8	21																		
06	0	29.62	0.00	39	30	69	15	6	23																		
09	135	29.58	0.00	45	36	71	16	4	18																		
12	165	29.54	0.00	55	46	72	17	11	24																		
15	98	29.42	0.00	55	49	81	17	8	20																		
18	9	29.38	0.00	55	52	90	17	8	17																		
21	0	29.34	0.00	57	55	92	19	5	12																		

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

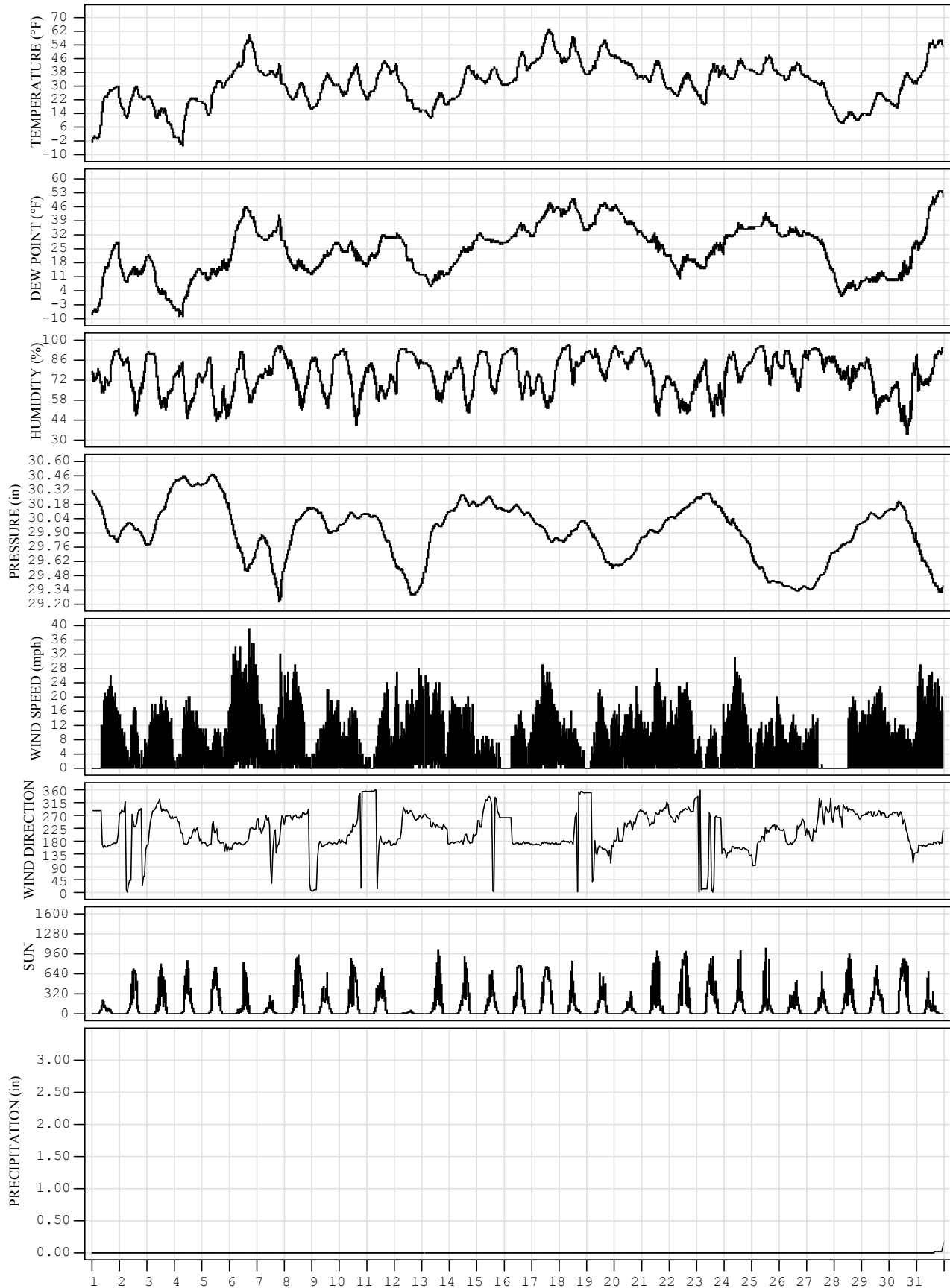
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
00	0	29.925	29	23	79	3.4	22	2.3
03	0	29.919	28	23	82	3.9	22	2.6
06	0	29.932	27	22	84	3.2	21	2.0
09	165	29.953	30	24	78	4.5	21	2.6
12	405	29.931	35	26	69	5.5	21	3.4
15	349	29.884	38	27	64	5.5	22	3.7
18	49	29.880	36	26	70	4.2	22	2.7
21	0	29.891	32	26	78	2.4	22	1.7

HOURLY PRECIPITATION (Water Equivalent) March 2022: Westford

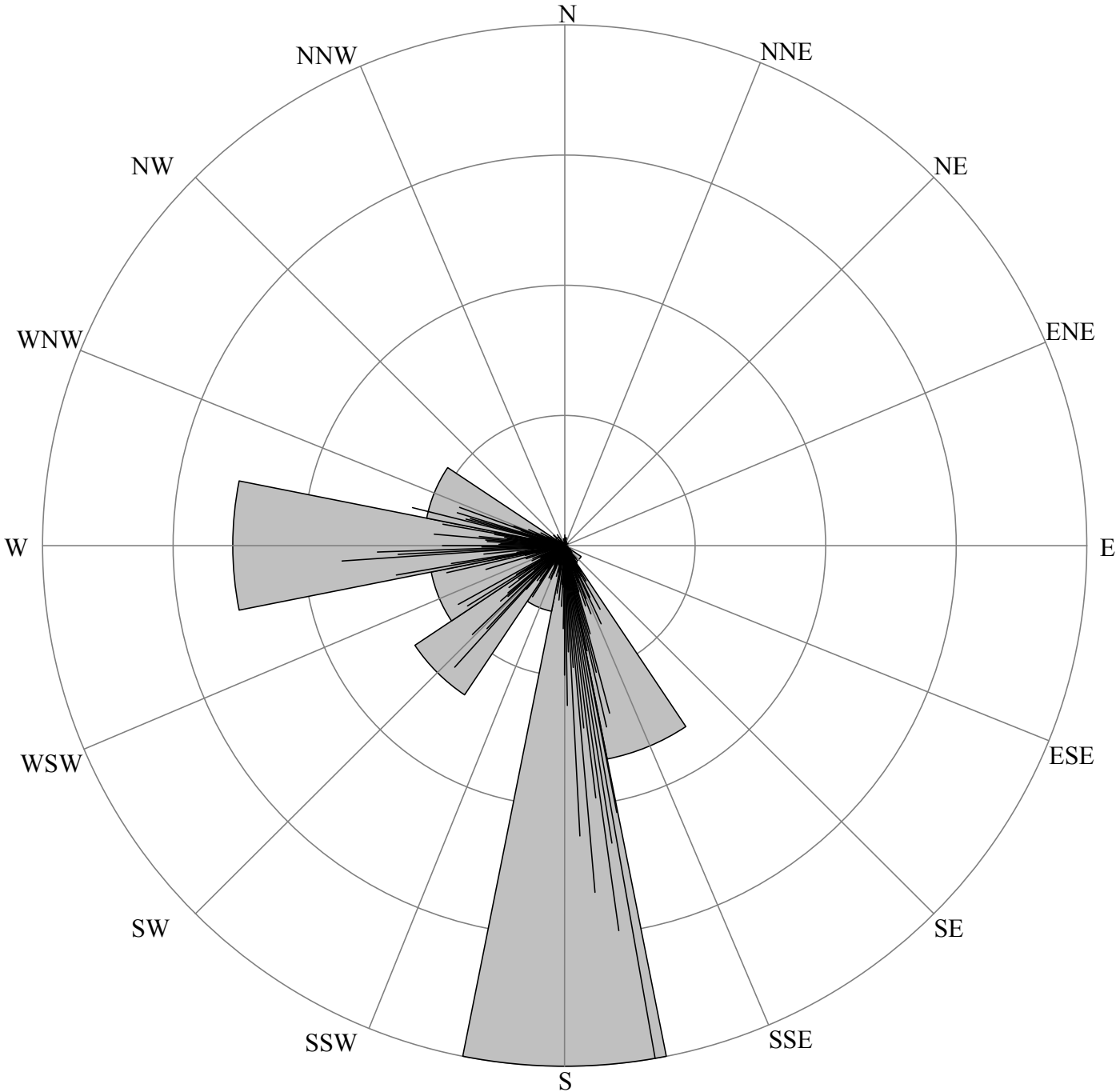
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
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29																									29
30																									30
31															0.02								0.08	0.07	31
Sum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	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.)

HOUR-BY-HOUR DATA
March 2022: Westford



Wind Rose: March 2022
Westford



Maximum direction of wind: 138.3 miles from 170°
Maximum sector of wind: 922.9 miles from S
2904.5 total miles of wind