

LOCAL CLIMATOLOGICAL DATA
Monthly Summary
June 2023

Station: Westford

Latitude: 0° 00' 00" N

Longitude: 0° 00' 00" W

Elevation (Ground): 0 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 9	Snow Cvr	Precip		Pressure			Wind							Solar
	Maximum	Minimum	Average	Mean	Dew Point		Heating Base 65°F	Cooling Base 65°F			Water Equivalent	Ice Pellets Snow	Adj. to Sea Level			Avg	Res	Res	Peak		2 Minute		
													Maximum	Minimum	Mean				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	92.8	55.7	74.3*	73.8	58	61	0	10	.....	0	0.00	0.0	30.07	29.94	30.013	0.7	0.4	229	14	NNW	6	260	314
2	88.3	57.8	73.1	72.7	63	73	0	8	..3.....	0	0.01	0.0	29.96	29.81	29.898	0.6	0.5	335	14	NNW	5	248	289
3	64.6	42.6	53.6	56.7	48	74	11	0	.....	0	0.00	0.0	30.12	29.92	30.048	1.5	1.4	358	18	NNE	9	7	223
4	62.7	38.4*	50.6*	50.8	44	79	14	0	.....	0	0.00	0.0	30.11	29.98	30.047	1.1	1.1	353	16	N	8	344	199
5	71.7	42.1	56.9	58.0	48	72	8	0	.....	0	0.00	0.0	29.99	29.73	29.860	0.8	0.8	300	19	WSW	8	254	307
6	67.9	46.7	57.3	55.9	50	81	7	0	.....	0	0.18	0.0	29.73	29.55	29.620	1.0	0.9	283	18	W	8	358	209
7	55.9	47.6	51.8	50.4	49	95	13	0	.....	0	0.20	0.0	29.63	29.52	29.561	0.9	0.8	270	17	W	6	254	51
8	60.7	45.8	53.3	51.2	50	94	11	0	.....	0	0.21	0.0	29.71	29.62	29.670	0.3	0.3	283	18	NNW	11	339	117
9	66.8	45.6	56.2	54.6	51	89	8	0	.....	0	0.01	0.0	29.73	29.67	29.700	0.4	0.3	308	12	WSW	7	269	202
10	70.6	49.6	60.1	58.0	53	84	4	0	.....	0	0.00	0.0	29.79	29.67	29.721	0.8	0.7	251	13	W	6	270	222
11	78.0	49.8	63.9	64.3	55	75	1	0	.....	0	0.00	0.0	29.86	29.78	29.817	0.9	0.8	216	11	S	6	256	286
12	83.5	58.6	71.0	70.0	60	72	0	7	.....	0	0.00	0.0	29.84	29.62	29.722	0.7	0.5	129	15	SE	8	105	229
13	69.3	59.3	64.3	62.5	60	92	1	0	.....	0	1.16	0.0	29.64	29.53	29.594	0.8	0.5	228	15	SE	9	255	90
14	74.7	53.5	64.1	61.8	58	88	0	0	..3.....	0	0.62	0.0	29.62	29.44	29.517	0.2	0.2	172	13	S	6	228	182
15	77.8	54.6	66.2	63.2	59	88	0	2	..3.....	0	0.16	0.0	29.64	29.42	29.512	0.6	0.6	247	23	W	13	267	227
16	75.4	52.5	64.0	63.3	59	85	1	0	.....	0	0.35	0.0	29.69	29.63	29.656	0.8	0.7	233	13	W	7	266	206
17	59.2	57.0	58.1	57.6	57	97	7	0	.....	0	0.54	0.0	29.71	29.62	29.645	0.6	0.5	269	12	WNW	6	269	34
18	59.2	48.6	53.9	54.9	53	94	11	0	.....	0	0.01	0.0	29.98	29.71	29.846	0.5	0.4	343	12	NNW	4	13	69
19	72.5	44.8	58.6	58.3	54	86	6	0	.....	0	0.01	0.0	30.13	29.96	30.056	0.6	0.5	268	11	WSW	5	262	256
20	78.0	47.5	62.8	62.8	56	81	2	0	.....	0	0.00	0.0	30.21	30.13	30.176	0.7	0.5	265	16	WSW	7	251	299
21	79.5	51.3	65.4	66.0	57	76	0	1	.....	0	0.00	0.0	30.27	30.17	30.221	0.3	0.1	115	10	SSE	5	8	267
22	83.3	50.5	66.9	66.5	58	76	0	2	.....	0	0.00	0.0	30.22	30.03	30.131	0.6	0.5	210	10	SE	5	134	318
23	85.2	51.8	68.5	69.3	61	76	0	4	.....	0	0.00	0.0	30.04	29.86	29.950	0.6	0.5	198	11	S	6	196	293
24	74.8	66.8	70.8	69.7	68	94	0	6	.....	0	1.54	0.0	29.86	29.69	29.762	0.4	0.3	167	12	SSE	4	166	74
25	79.8	63.4	71.6	70.5	68	91	0	7	8.	0	0.01	0.0	29.81	29.73	29.768	0.3	0.3	259	9	W	5	234	186
26	80.0	64.0	72.0	70.8	68	90	0	7	..3.....	0	0.18	0.0	29.74	29.62	29.693	0.6	0.6	142	17	SSE	7	188	169
27	76.6	62.8	69.7	68.6	66	91	0	5	.....	0	0.06	0.0	29.67	29.60	29.624	0.6	0.6	156	15	S	6	130	134
28	74.9	60.0	67.5	67.2	64	89	0	3	.....	0	0.12	0.0	29.84	29.65	29.724	1.2	0.9	187	16	SSE	7	262	132
29	71.3	58.4	64.9	63.3	61	93	0	0	.....	0	0.02	0.0	30.01	29.84	29.931	0.5	0.5	183	10	S	5	171	85
30	84.1	55.9	70.0	69.2	64	84	0	5	.....	0	0.00	0.0	30.03	29.95	29.991	0.3	0.3	189	8	WSW	4	239	263
Sum		Sum	-----	-----	---	----	Ttl	Ttl	Number of Days		Total	Total	For the month:										---
2219		1583					105	67			5.39	0.0	30.27	29.42	29.816	0.7	0.3	248	23	W	13	267	
Avg	Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip		Season Ttl	Date	Date	-----	----	----	---	Date	Date	Avg			
74.0	52.8	63.4	62.7	57	84.0	----	----	≥.01 inch	18	21.14	71.4	21	15	-----	----	----	---	15	15	198			
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				6943	85	Thunder	4	Precipitation		Snow, Ice Plts										
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----	Heavy Fog	0	1.55	24-25	0.0	-						0		-				
1	0	0	0	----	----	Clear	4	Partly Cloudy	13	Cloudy	12												

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

June 2023: 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
JUN 01									JUN 02									JUN 03									
00	0	30.04	0.00	57	53	85	25	0	0	0	29.94	0.00	65	58	78	05	0	0	0	29.92	0.00	64	58	79	02	0	6
03	0	30.05	0.00	56	53	90	25	0	0	0	29.94	0.00	61	58	88	05	0	0	0	29.95	0.00	53	50	91	27	0	3
06	25	30.07	0.00	60	54	80	16	0	2	25	29.93	0.00	60	58	94	05	0	0	12	29.99	0.00	53	50	89	32	0	3
09	520	30.07	0.00	74	58	56	15	1	8	489	29.94	0.00	73	64	74	04	0	0	118	30.05	0.00	55	49	81	35	0	11
12	872	30.04	0.00	86	62	45	24	0	5	846	29.91	0.00	84	68	59	34	1	51	114	30.08	0.00	62	51	66	35	5	15
15	800	29.98	0.00	91	60	36	25	4	8	761	29.85	0.00	86	66	51	34	3	9	309	30.09	0.00	64	48	57	02	2	11
18	369	29.94	0.00	90	57	33	34	0	7	309	29.81	0.00	80	68	67	20	0	6	438	30.09	0.00	64	44	48	00	4	12
21	0	29.97	0.00	68	58	70	35	0	2	0	29.86	0.00	72	62	73	05	0	5	0	30.10	0.00	51	43	76	32	0	0
JUN 04									JUN 05									JUN 06									
00	0	30.11	0.00	43	40	90	33	0	0	0	29.99	0.00	47	45	91	00	0	0	0	29.73	0.00	55	47	75	26	0	0
03	0	30.08	0.00	40	39	94	33	0	0	0	29.95	0.00	46	44	94	00	1	4	0	29.67	0.00	48	44	88	25	0	0
06	44	30.06	0.00	41	40	96	36	0	0	23	29.94	0.00	46	45	97	35	0	3	39	29.65	0.00	47	45	93	25	0	0
09	227	30.07	0.00	51	42	72	33	2	13	522	29.92	0.00	61	52	71	19	1	11	374	29.64	0.00	58	51	79	25	2	8
12	399	30.06	0.00	57	46	67	35	6	14	313	29.87	0.00	66	54	64	26	1	8	731	29.62	0.00	65	53	65	03	1	8
15	570	30.03	0.00	63	49	60	05	2	13	782	29.81	0.00	71	51	49	22	1	10	385	29.57	0.00	67	54	62	31	2	11
18	190	30.01	0.00	62	50	65	02	1	9	308	29.77	0.00	69	50	50	27	1	6	46	29.57	0.00	53	51	91	00	0	0
21	0	30.02	0.00	54	47	78	29	1	9	0	29.77	0.00	56	43	63	25	0	4	0	29.59	0.00	52	51	95	26	3	11
JUN 07									JUN 08									JUN 09									
00	0	29.58	0.00	51	50	96	25	0	9	0	29.63	0.00	48	47	96	32	0	0	0	29.71	0.00	46	45	96	26	0	0
03	0	29.54	0.00	50	49	96	09	0	4	0	29.63	0.00	48	47	97	32	0	0	0	29.69	0.00	48	47	97	26	0	0
06	0	29.52	0.00	49	48	96	23	0	5	19	29.66	0.00	46	45	97	32	0	0	16	29.71	0.00	50	50	98	26	0	0
09	54	29.53	0.00	50	49	96	26	0	17	142	29.68	0.00	50	49	94	34	0	1	149	29.73	0.00	52	51	98	26	1	6
12	214	29.53	0.00	53	51	93	27	1	9	522	29.69	0.00	54	53	95	26	0	6	374	29.71	0.00	60	55	82	31	2	10
15	39	29.55	0.00	54	51	90	26	0	7	283	29.67	0.00	58	54	87	34	0	31	118	29.68	0.00	62	54	74	01	3	9
18	72	29.58	0.00	52	51	94	25	1	7	250	29.67	0.00	55	53	94	20	2	6	468	29.67	0.00	63	55	76	32	1	3
21	0	29.62	0.00	50	48	95	33	0	3	0	29.70	0.00	52	51	95	26	0	0	0	29.70	0.00	51	49	91	34	0	0
JUN 10									JUN 11									JUN 12									
00	0	29.70	0.00	51	50	96	34	0	3	0	29.79	0.00	52	50	92	17	1	4	0	29.84	0.00	62	57	82	24	0	0
03	0	29.68	0.00	51	50	96	34	0	0	0	29.79	0.00	50	48	94	18	0	5	0	29.81	0.00	59	57	93	24	0	0
06	16	29.70	0.00	51	50	97	34	0	0	49	29.83	0.00	51	49	93	18	0	0	30	29.79	0.00	59	56	89	01	0	2
09	199	29.73	0.00	55	53	94	33	0	3	512	29.85	0.00	67	57	72	18	1	7	243	29.77	0.00	67	61	80	01	0	0
12	427	29.73	0.00	61	55	81	24	1	8	840	29.84	0.00	75	57	54	18	2	9	654	29.74	0.00	77	63	62	07	2	6
15	621	29.71	0.00	68	55	62	27	4	13	744	29.81	0.00	76	60	57	25	5	9	749	29.67	0.00	82	60	47	16	2	15
18	345	29.72	0.00	69	55	62	25	1	9	171	29.79	0.00	77	60	56	24	0	3	221	29.63	0.00	79	62	56	12	0	3
21	0	29.76	0.00	55	51	87	23	0	1	0	29.82	0.00	63	57	80	24	0	0	0	29.64	0.00	71	60	69	12	0	0
JUN 13									JUN 14									JUN 15									
00	0	29.62	0.00	68	59	74	18	0	4	0	29.62	0.00	60	59	97	24	0	0	0	29.44	0.06	56	55	97	11	0	0
03	0	29.57	0.00	61	59	91	13	0	0	0	29.59	0.00	58	57	97	24	0	0	0	29.44	0.00	55	54	97	11	0	0
06	7	29.54	0.00	63	60	91	08	1	8	33	29.57	0.00	55	54	97	24	0	0	19	29.47	0.00	57	56	98	10	0	0
10	120	29.57	0.05	63	61	96	11	0	6	508	29.56	0.00	64	59	84	07	0	4	214	29.50	0.00	63	60	92	22	0	2
12	257	29.60	0.00	62	61	96	25	3	7	930	29.50	0.00	73	57	57	05	2	6	315	29.52	0.00	69	62	79	24	0	5
15	329	29.61	0.00	64	62	95	23	4	7	186	29.46	0.00	69	63	80	18	0	0	752	29.51	0.00	75	65	70	25	4	9
18	23	29.61	0.00	63	61	93	24	0	0	11	29.47	0.14	59	57	93	17	0	4	373	29.55	0.00	68	64	87	24	1	8
21	0	29.63	0.00	60	59	96	24	0	0	0	29.46	0.18	57	56	96	11	0	0	0	29.60	0.00	61	58	90	29	0	0
JUN 16									JUN 17									JUN 18									
00	0	29.63	0.00	58	56	93	20	0	3	0	29.67	0.24	59	57	95	23	0	0	0	29.71	0.00	57	57	98	01	1	5
03	0	29.64	0.00	56	53	92	17	0	0	0	29.62	0.00	58	57	97	23	0	0	0	29.72	0.00	54	54	97	34	1	9
06	23	29.66	0.00	54	52	96	17	0	0	18	29.62	0.00	57	56	97	23	0	0	7	29.76	0.00	53	52	98	26	1	4
09	452	29.68	0.00	66	59	78	16	0	6	33	29.62	0.00	57	56	97	24	0	10	114	29.82	0.00	53	52	98	36	0	1
12	791	29.67	0.00	73	63	71	28	0	9	105	29.62	0.00	59	58	98	26	1	4	183	29.86	0.00	55	54	96	25	1	6
15	399	29.63	0.00	72	63	73	25	2	11	100	29.64	0.00	58	57	97	28	2	7	206	29.87	0.00	59	55	87	04	0	5
18	163	29.64	0.00	67	62	84	24	0	3	32	29.66	0.04	58	57	98	28	0	9	74	29.93	0.00	58	55	90	34	0	0
21	0	29.66	0.00	62	60	93	25	0	2	0	29.69	0.00	58	57	98	31	0	0	0	29.96	0.00	55	53	93	33	0	0

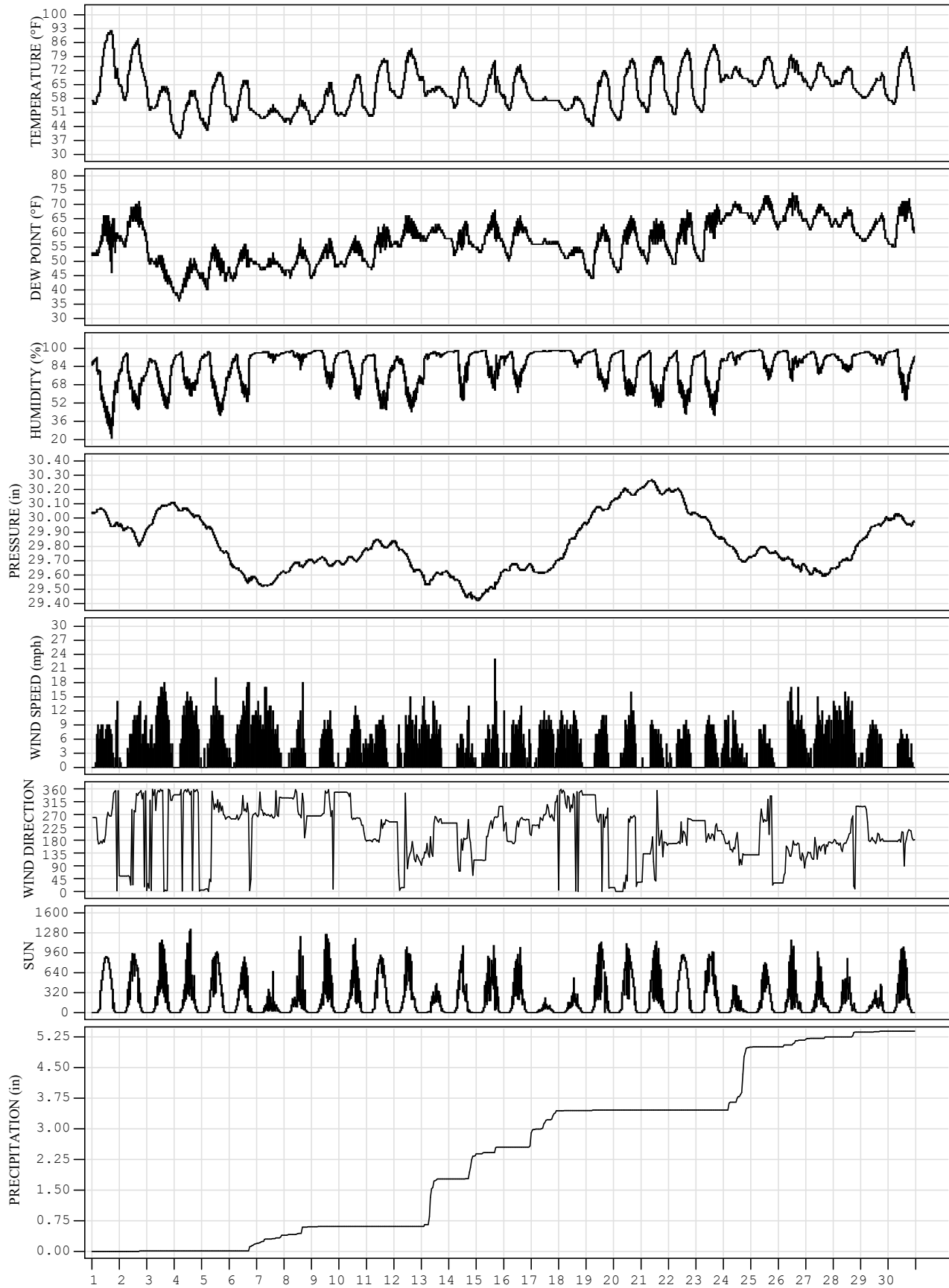
HOURLY PRECIPITATION (Water Equivalent)

June 2023: Westford

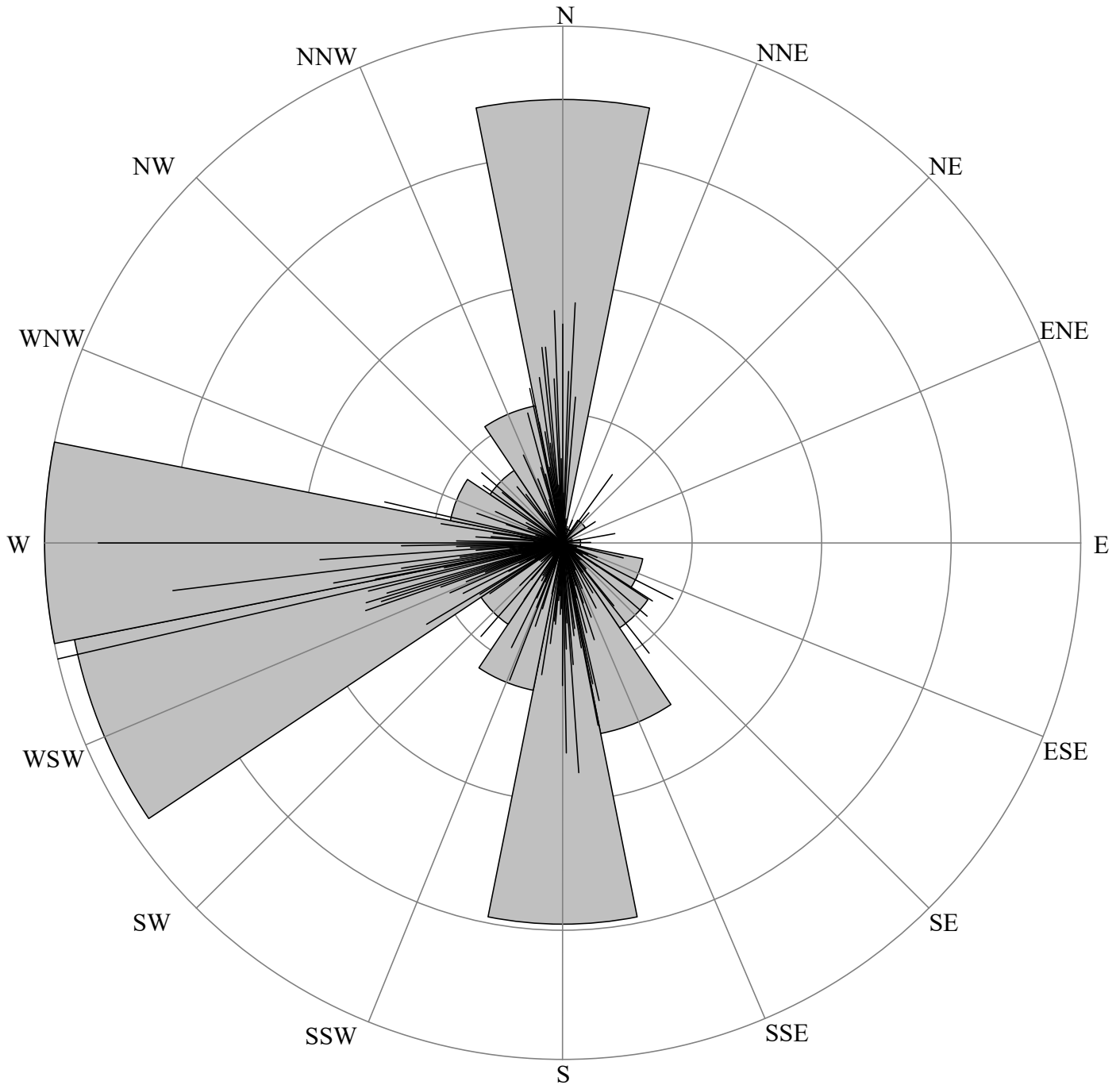
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01																									01
02																	0.01								02
03																									03
04																									04
05																									05
06																	0.10	0.01	0.02	0.01	0.02	0.01	0.01	0.01	06
07	0.01		0.01	0.02	0.01		0.05	0.01						0.01			0.02			0.01	0.02	0.04			07
08			0.01	0.01							0.01	0.01	0.01			0.15	0.02			0.02	0.01				08
09						0.01																			09
10																									10
11																									11
12																									12
13			0.04				0.20	0.47	0.21	0.03	0.16	0.01	0.01	0.03		0.01		0.16	0.11	0.19	0.09		0.01	0.05	13
14																	0.12	0.01							14
15						0.02	0.01																		15
16																							0.03	0.32	16
17	0.07	0.01		0.01					0.01	0.02	0.10	0.03	0.06	0.01			0.02	0.08	0.05	0.02	0.05				17
18					0.01																				18
19						0.01																			19
20																									20
21																									21
22																									22
23																									23
24				0.17	0.02						0.10	0.04		0.05	0.05	0.45	0.43	0.08	0.12	0.01	0.01	0.01			24
25		0.01																							25
26				0.04									0.04	0.01	0.06		0.01							0.02	26
27	0.02		0.01													0.03	0.03	0.08	0.01						27
28																0.01									28
29											0.01														29
30																									30
Sum	0.10	0.02	0.06	0.05	0.23	0.06	0.26	0.48	0.22	0.05	0.27	0.16	0.16	0.06	0.12	0.20	0.66	0.82	0.29	0.38	0.16	0.12	0.06	0.40	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
 June 2023: Westford



Wind Rose: June 2023
Westford



Maximum direction of wind: 15.7 miles from 257°
Maximum sector of wind: 85.2 miles from W
474.1 total miles of wind