

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

October 2024

Station: Westford

Latitude: 44° 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	72.0	51.8	61.9	59.0	54	85	3	0	.....	0	0.00	0.0	30.08	29.97	30.028	0.8	0.7	165	15	S	3	187	112
2	67.8	50.4	59.1	57.4	51	81	6	0	.....	0	0.02	0.0	29.98	29.89	29.936	1.8	1.7	182	21	WSW	9	187	120
3	68.2	46.0	57.1	56.2	51	84	8	0	.....	0	0.01	0.0	30.13	29.97	30.039	0.7	0.7	208	11	WSW	6	178	147
4	73.3	45.7	59.5	57.9	52	83	5	0	.....	0	0.34	0.0	30.19	30.07	30.123	0.6	0.5	196	12	NW	6	274	142
5	66.3	40.6	53.5	53.9	48	83	11	0	.....	0	0.16	0.0	30.18	30.10	30.154	0.7	0.6	277	14	N	8	278	157
6	67.1	36.4	51.8	51.5	45	80	13	0	..3.....	0	0.09	0.0	30.17	29.77	29.999	0.9	0.9	175	22	S	7	176	150	
7	61.3	44.3	52.8	53.8	50	87	12	0	.....	0	0.38	0.0	29.84	29.72	29.763	1.3	1.0	236	16	SW	8	254	50
8	59.8	34.1	46.9	44.8	39	83	18	0	.....	0	0.07	0.0	29.85	29.79	29.824	0.6	0.6	213	14	WSW	7	225	131
9	53.0	41.1	47.0	45.4	42	89	18	0	.....	0	0.16	0.0	29.89	29.80	29.832	1.4	1.2	229	18	WNW	11	257	79
10	46.6	41.9	44.3	44.1	40	86	20	0	.....	0	0.02	0.0	30.04	29.89	29.977	4.0	4.0	263	23	W	12	255	39
11	60.5	44.9	52.7	50.5	44	79	12	0	.....	0	0.01	0.0	30.03	29.63	29.893	2.6	2.3	210	15	SSE	8	258	112
12	59.2	36.7	48.0	50.0	41	73	17	0	.....	0	0.01	0.0	29.97	29.57	29.807	4.9	4.4	264	36	WSW	17	262	132
13	53.0	34.5	43.8	42.7	39	86	21	0	.....	0	0.12	0.0	29.96	29.78	29.890	0.3	0.2	224	10	WSW	6	178	63
14	41.4	36.8	39.1	39.5	38	95	26	0	.....	0	0.67	0.0	29.78	29.58	29.675	0.7	0.6	331	17	NE	5	350	16
15	43.2	35.8	39.5	39.3	37	92	25	0	.....	0	0.35	0.0	29.78	29.69	29.732	3.9	3.8	257	22	W	10	260	35
16	45.5	32.9	39.2	39.4	36	88	25	0	.....	0	0.11	0.0	30.16	29.72	29.949	2.7	2.6	267	18	WSW	10	270	46
17	58.1	28.1	43.1	39.8	34	83	22	0	.....	0	0.01	0.0	30.31	30.16	30.249	0.4	0.4	252	10	WSW	6	253	131
18	65.5	32.6	49.0	44.7	37	80	15	0	.....	0	0.01	0.0	30.50	30.30	30.429	0.2	0.2	258	8	W	5	262	129
19	67.5	35.0	51.3	48.1	39	76	13	0	.....	0	0.00	0.0	30.51	30.33	30.436	0.8	0.7	175	10	S	5	174	128
20	67.9	38.4	53.2	52.3	41	69	12	0	.....	0	0.00	0.0	30.33	30.08	30.196	2.6	2.6	177	17	SSE	10	176	114
21	74.4	53.7	64.1	61.4	49	65	1	0	.....	0	0.00	0.0	30.11	30.00	30.046	3.2	3.1	182	16	SSE	9	172	116
22	77.0	48.1	62.5	60.5	53	79	2	0	.....	0	0.00	0.0	30.22	30.05	30.140	1.4	1.4	177	17	SSE	10	184	114
23	76.6	55.6	66.1	65.6	52	64	0	2	.....	0	0.15	0.0	30.05	29.71	29.850	5.4	5.1	180	29	SSE	15	177	104
24	56.3	37.0	46.6	45.6	42	87	18	0	.....	0	0.01	0.0	30.11	29.81	29.992	1.2	1.2	293	16	W	7	298	41
25	52.2	31.5	41.9	40.6	36	84	23	0	.....	0	0.00	0.0	30.17	29.93	30.060	0.3	0.2	257	9	WSW	6	264	86
26	52.2	38.1	45.1	45.5	36	72	20	0	.....	0	0.04	0.0	30.21	29.87	30.013	5.3	4.6	257	26	W	16	257	89
27	45.5	27.0	36.3	35.7	28	75	28	0	.....	1	0.04	1.0	30.34	30.19	30.251	3.4	2.5	243	30	W	15	269	35
28	42.0	19.5*	30.8*	30.0	24	80	34	0	.....	0	0.10	0.0	30.52	30.33	30.451	0.1	0.1	76	6	E	3	98	102
29	52.0	26.1	39.1	41.4	36	82	26	0	.....	0	0.43	0.0	30.47	30.24	30.367	2.9	2.8	158	22	SSE	9	166	61
30	66.5	46.4	56.5	58.0	53	84	8	0	.....	0	0.19	0.0	30.25	29.99	30.107	6.1	6.1	174	27	SSE	12	172	70
31	75.3	59.2	67.3*	66.3	56	70	0	2	.....	0	0.00	0.0	30.00	29.69	29.870	5.1	5.1	179	25	SSE	13	176	95
Sum	Sum	-----	-----	---	----	Ttl	Ttl						Total	Total	For the month:						---			
1867	1230					462	4		Number of Days				3.50	1.0	30.52	29.57	30.035	2.1	1.5	215	36	WSW	17	262
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip				Season Ttl	Date	Date	-----	----	---		Date	Date	Avg		
60.2	39.7	50.0	49.1	43	80.8	----	----		≥.01 inch	24			5.74	1.0	28	12	-----	----	---		12	12	95	
Number of Days						Season to Date	Snow, Ice ≥1.0 inch	1	Greatest in 24 Hours and Dates						Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date									
Max Temperature			Min Temperature			562	24	Thunder	1	Precipitation			Snow, Ice Plts											
≥ 90°F	≤ 32°F	≤ 32°F	≤ 0°F	----	----			Heavy Fog	0	0.70	13-14	1.0	27				1		27					
0	0	5	0	----	----			Clear	12	Partly Cloudy		9	Cloudy		10									

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

October 2024: Westford

Hour	OCT 19						OCT 20						OCT 21					
	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity
00	0	30.49	0.00	39	36	92	0	30.33	0.00	42	38	86	0	30.08	0.00	57	44	62
03	0	30.49	0.00	37	35	94	0	30.30	0.00	44	38	81	0	30.05	0.00	57	44	63
06	0	30.50	0.00	36	34	94	0	30.27	0.00	40	36	88	0	30.03	0.00	56	45	66
09	32	30.50	0.00	40	39	96	1	30.25	0.00	47	40	75	6	30.06	0.00	55	45	68
12	508	30.47	0.00	63	43	48	17	30.22	0.00	61	43	52	16	30.04	0.00	70	51	52
15	216	30.40	0.00	67	43	41	20	30.12	0.00	67	45	44	17	30.00	0.00	73	53	50
18	5	30.35	0.00	55	44	68	17	30.09	0.00	59	45	58	18	30.02	0.00	62	54	73
21	0	30.34	0.00	44	40	86	15	30.11	0.00	57	46	67	20	30.08	0.00	57	52	83

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	30.042	45	41	88	1.4	22	1.0
03	0	30.031	44	41	88	1.5	20	1.1
06	0	30.041	43	40	90	1.8	23	1.1
09	77	30.070	45	42	89	2.7	21	1.8
12	370	30.055	56	46	70	3.3	21	2.4
15	226	30.012	59	45	62	3.7	21	2.5
18	11	30.010	52	44	75	1.8	22	1.3
21	0	30.026	47	42	85	1.6	20	1.2

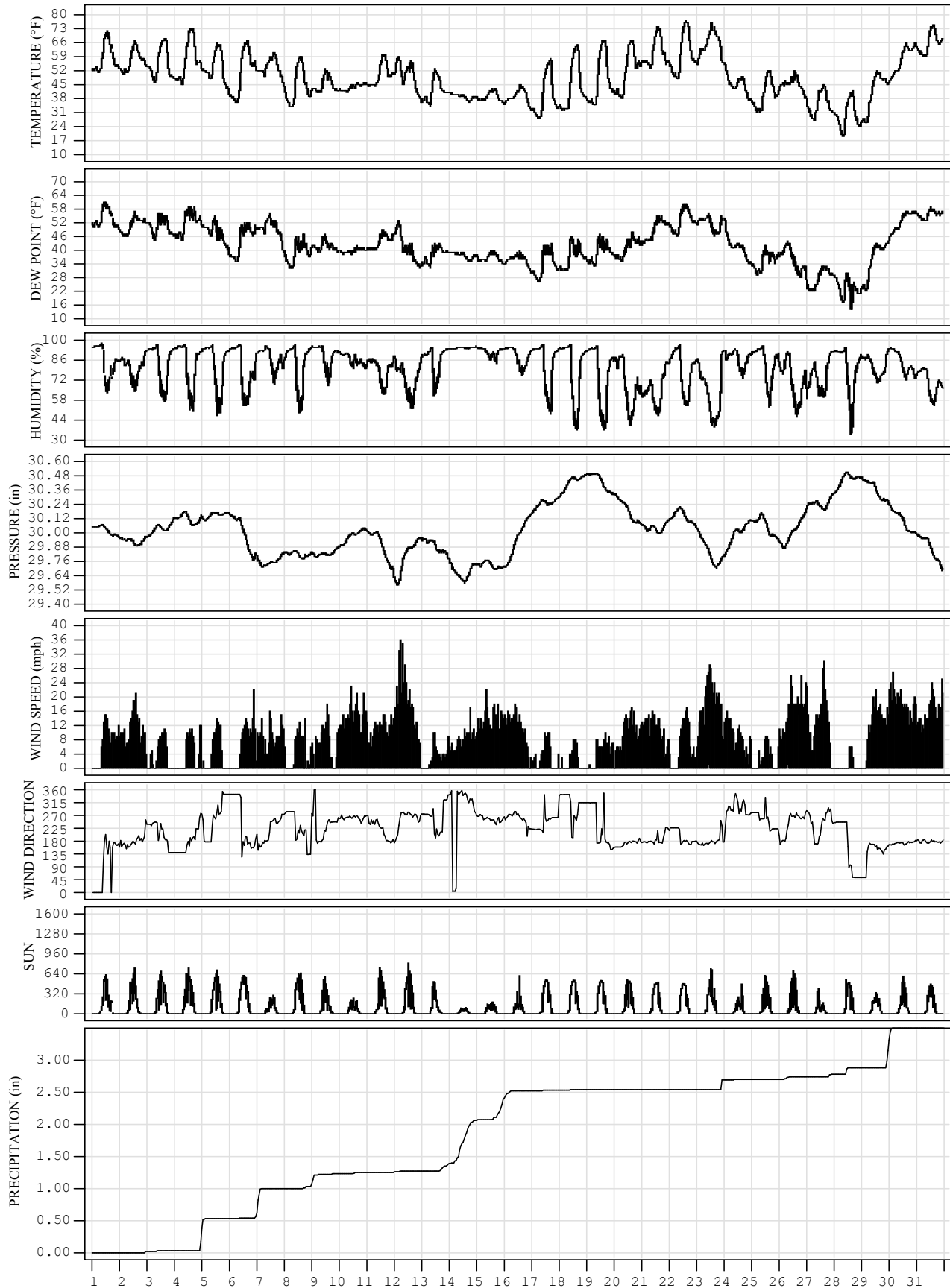
HOURLY PRECIPITATION (Water Equivalent) October 2024: Westford

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																								01	
02																							0.02		02
03									0.01																03
04																							0.14	0.20	04
05	0.15		0.01																						05
06																									06
07	0.20	0.08	0.09	0.01						0.01															07
08																									08
09	0.07	0.07				0.01											0.01		0.02						09
10													0.01	0.01											10
11																									11
12					0.01																				12
13																									13
14		0.01			0.03	0.01	0.04	0.02	0.09	0.07	0.04	0.02	0.05	0.05	0.04	0.06	0.02	0.02	0.02	0.01			0.01	0.02	14
15	0.01													0.01	0.03	0.06	0.05	0.03	0.03	0.02		0.02	0.01		15
16	0.03	0.03	0.01	0.01	0.02	0.01																			16
17										0.01															17
18										0.01															18
19																									19
20																									20
21																									21
22																									22
23																							0.15		23
24																									24
25									0.01																25
26					0.01		0.02			0.01															26
27																									27
28											0.08	0.02								0.03		0.01			28
29																									29
30	0.12	0.06	0.01																			0.09	0.18	0.16	30
31																									31
Sum	0.58	0.25	0.12	0.02	0.07	0.03	0.06	0.02	0.13	0.09	0.12	0.04	0.06	0.07	0.07	0.07	0.08	0.10	0.10	0.06	0.07	0.33	0.46	0.50	Sum

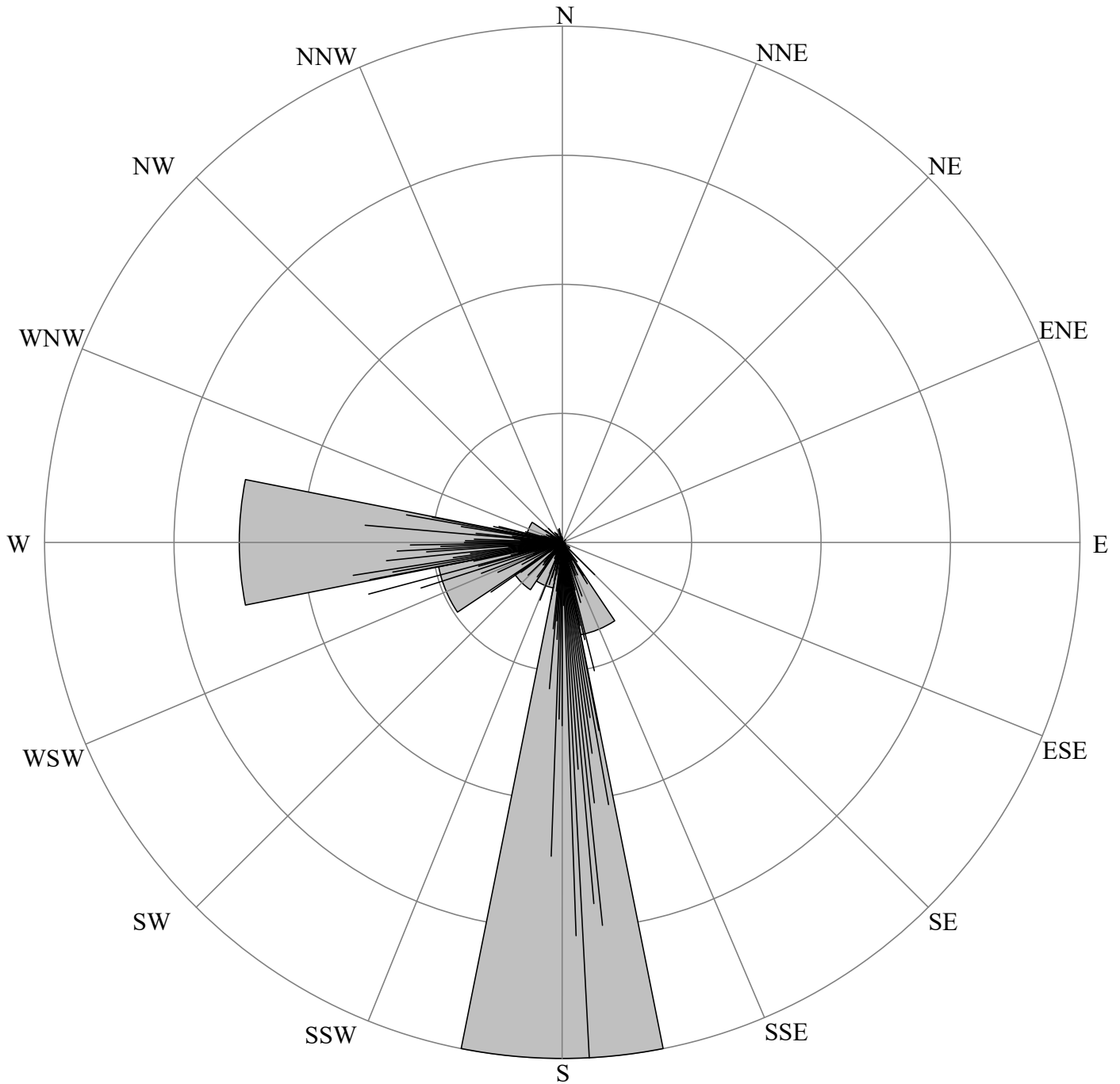
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

October 2024: Westford



Wind Rose: October 2024
Westford



Maximum direction of wind: 80.3 miles from 177°
Maximum sector of wind: 667.8 miles from S
1588.3 total miles of wind