

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

November 2024

Station: Westford

Latitude: 44° 37' 38" N Longitude: 73° 02' 30" W Elevation (Ground): 850 feet Time Zone: Eastern

Date	Temperature						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 Radiation	
	Maximum	Minimum	Average	Mean	Dew Point	Hu- mid- ity Mean	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	68.9	40.2	54.6	56.4	49	78	10	0	.....	0	0.25	0.0	30.09	29.64	29.823	5.3	4.5	232	32	SW	17	230	32	
2	40.2	31.9	36.1	35.8	30	81	29	0	.....	0	0.00	0.0	30.40	30.08	30.293	1.2	1.0	309	13	W	7	271	33	
3	42.2	24.8	33.5	31.0	25	79	31	0	.....	0	0.00	0.0	30.52	30.40	30.476	0.5	0.4	270	11	W	7	255	96	
4	48.8	23.2	36.0	38.8	30	72	29	0	.....	0	0.09	0.0	30.51	30.09	30.344	3.6	3.6	168	35	SSE	20	175	40	
5	65.2	46.0	55.6	56.3	50	80	9	0	.....	0	0.05	0.0	30.10	29.83	29.974	8.1	8.1	177	27	S	14	173	60	
6	66.5	54.9	60.7*	61.7	56	81	4	0	.....	0	0.00	0.0	29.89	29.74	29.805	5.1	4.5	194	26	SSE	13	179	17	
7	54.9	38.9	46.9	46.2	40	80	18	0	.....	0	0.00	0.0	30.05	29.88	29.978	2.9	2.4	252	17	SSE	10	254	66	
8	52.1	36.9	44.5	43.1	36	76	20	0	.....	0	0.00	0.0	30.04	29.70	29.833	6.5	4.7	245	34	SW	15	261	24	
9	44.9	27.1	36.0	35.9	27	70	29	0	.....	0	0.00	0.0	30.35	30.03	30.262	3.2	3.2	290	26	W	12	280	87	
10	51.9	25.4	38.7	39.6	28	67	26	0	.....	0	0.06	0.0	30.33	29.70	30.065	5.3	5.3	178	32	SSE	14	178	66	
11	53.0	42.8	47.9	48.1	45	88	17	0	.....	0	0.13	0.0	29.72	29.50	29.534	5.1	5.0	185	25	SSE	12	175	29	
12	47.2	25.6	36.4	35.5	30	81	28	0	.....	0	0.18	T	30.41	29.52	30.054	3.9	3.4	303	25	WNW	15	246	43	
13	39.9	22.5	31.2	28.6	22	78	33	0	.....	0	0.00	0.0	30.58	30.40	30.521	0.6	0.6	325	12	WNW	6	266	79	
14	46.2	20.8*	33.5	29.4	22	75	31	0	.....	0	0.00	0.0	30.48	30.08	30.275	0.2	0.1	308	9	W	6	258	72	
15	44.4	21.8	33.1	30.6	24	77	32	0	.....	0	0.00	0.0	30.08	29.76	29.921	0.4	0.3	299	11	WSW	7	250	78	
16	53.0	28.6	40.8	40.3	27	60	24	0	.....	0	0.00	0.0	29.98	29.76	29.860	1.4	1.4	280	16	W	8	272	74	
17	51.3	30.0	40.6	39.7	27	61	24	0	.....	0	0.00	0.0	30.06	29.81	29.978	0.2	0.1	288	8	WSW	5	269	68	
18	49.5	37.5	43.5	43.1	37	80	21	0	.....	0	0.01	0.0	29.89	29.75	29.818	1.9	1.3	256	16	W	9	273	20	
19	47.5	37.0	42.3	41.2	36	83	22	0	.....	0	0.00	0.0	29.98	29.83	29.900	1.1	1.0	293	14	NW	8	279	36	
20	47.9	29.4	38.7	36.1	33	89	26	0	.....	0	0.00	0.0	29.85	29.70	29.783	0.4	0.3	279	9	WNW	6	266	66	
21	43.7	31.4	37.6	40.6	39	93	27	0	.....	0	0.11	0.0	29.70	29.44	29.593	0.4	0.2	40	12	N	6	25	15	
22	50.9	35.3	43.1	42.5	37	81	22	0	.....	0	0.06	0.0	29.51	29.34	29.427	1.8	1.6	12	19	N	11	360	58	
23	38.9	35.2	37.1	37.1	35	93	28	0	.....	0	0.15	0.0	29.53	29.46	29.494	2.9	2.6	285	18	NW	11	273	12	
24	38.7	29.2	34.0	34.6	28	77	31	0	.....	0	0.03	0.0	29.91	29.51	29.703	8.6	8.6	259	30	WSW	17	251	32	
25	40.3	24.9	32.6	30.4	25	81	32	0	.....	0	0.00	0.0	30.03	29.91	29.983	1.2	1.1	267	18	WSW	9	277	57	
26	40.8	23.9	32.3	34.5	33	92	32	0	.....	0	0.49	0.0	29.97	29.67	29.785	2.8	2.5	191	20	SSE	9	223	7	
27	41.1	31.0	36.0	36.0	28	73	29	0	.....	0	0.00	0.0	29.90	29.81	29.857	4.4	4.2	221	25	WSW	13	248	39	
28	36.3	31.3	33.8	33.2	30	88	31	0	.....	2	0.50	1.9	29.88	29.59	29.718	0.7	0.7	169	14	S	8	173	9	
29	32.8	26.0	29.4	30.4	29	93	35	0	.....	2	0.03	0.4	29.76	29.68	29.725	0.4	0.4	176	16	S	7	188	5	
30	29.6	27.6	28.6*	28.4	25	88	36	0	.....	2	0.02	0.2	29.85	29.74	29.783	4.1	4.1	173	19	SSE	11	176	5	
	Sum	Sum	-----	-----	---	----	Ttl	Ttl	Number of Days	Total	Total	For the month:										---		
	1409	941					766	0		2.14	2.5	30.58	29.34	29.919	2.8	1.7	226	35	SSE	20	175			
	Avg	Avg	Avg	Mean	Avg	Avg	----	----	Precip	Season Ttl		Date	Date	-----	----	----	---	Date	Date	Avg				
	47.0	31.4	39.2	38.8	33	79.9	----	----	≥.01 inch	15	7.90	3.5	13	22	-----	----	----	---	4	4	44			
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				1328	24	Thunder	0	Precipitation		Snow, Ice Plts											
≥ 90°F		≤ 32°F		≤ 32°F		≤ 0°F		----	----	Heavy Fog	0	0.49	26	1.9	28	2		28+						
0		1		20		0		----	----	Clear	6	Partly Cloudy		9	Cloudy	15								

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

November 2024: Westford

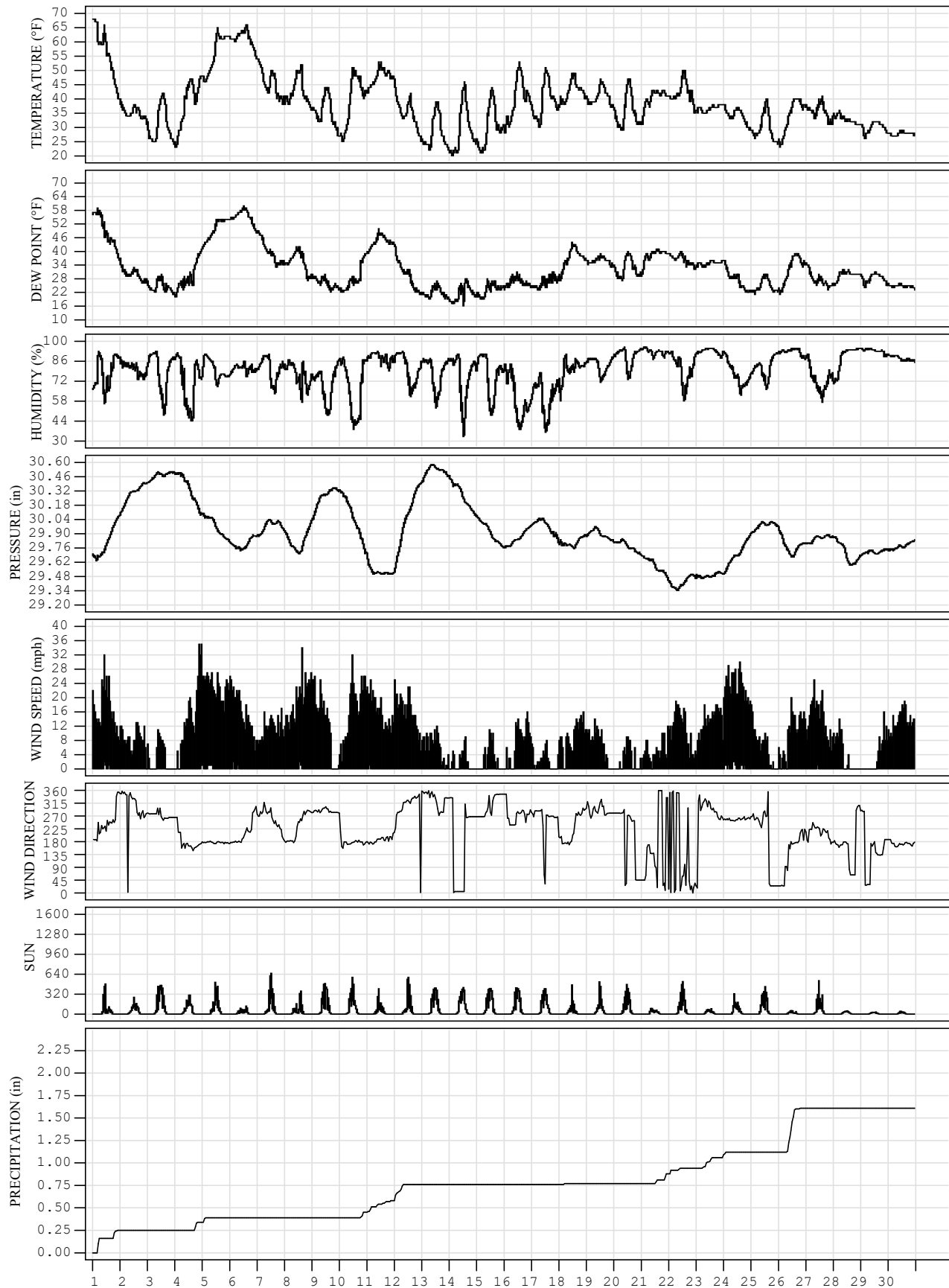
Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Humidity	Wind				
							Direction	Speed	Gust							Direction	Speed	Gust							Direction	Speed	Gust		
NOV 01										NOV 02										NOV 03									
00	0	29.70	0.00	69	57	67	18	7	21	0	30.08	0.00	40	37	89	01	1	5	0	30.40	0.00	32	27	82	28	0	0		
03	0	29.67	0.00	67	57	71	18	5	9	0	30.16	0.00	37	32	82	01	4	8	0	30.43	0.00	27	24	91	27	0	0		
06	0	29.68	0.00	60	58	92	21	6	14	0	30.23	0.00	35	30	83	03	0	5	0	30.46	0.00	26	23	91	27	0	0		
09	25	29.73	0.00	59	52	78	21	6	19	28	30.30	0.00	35	30	82	34	0	4	88	30.50	0.00	31	28	89	26	2	6		
12	11	29.78	0.00	60	48	64	23	8	17	114	30.32	0.00	38	33	82	33	1	4	457	30.49	0.00	40	30	67	25	1	5		
15	77	29.86	0.00	55	45	67	24	10	22	105	30.33	0.00	37	32	82	27	3	11	123	30.47	0.00	41	24	51	26	2	7		
18	0	29.96	0.00	51	45	82	26	6	10	0	30.36	0.00	35	28	77	26	2	7	0	30.50	0.00	31	25	80	26	0	0		
21	0	30.03	0.00	44	41	90	34	0	6	0	30.40	0.00	34	27	74	25	3	8	0	30.52	0.00	26	23	87	26	0	0		
NOV 04										NOV 05										NOV 06									
00	0	30.50	0.00	25	22	87	26	0	0	0	30.10	0.00	49	41	75	17	10	28	0	29.83	0.00	62	55	76	16	9	19		
03	0	30.50	0.00	27	25	90	21	0	5	0	30.06	0.00	47	44	90	18	11	22	0	29.79	0.00	61	55	80	17	7	15		
06	0	30.47	0.00	32	26	79	16	2	7	0	30.07	0.00	50	46	88	17	11	25	0	29.76	0.00	61	56	83	18	9	20		
09	74	30.42	0.00	41	27	56	16	3	13	44	30.05	0.00	52	48	86	17	13	24	18	29.76	0.00	63	58	82	18	5	15		
12	141	30.39	0.00	45	27	50	16	3	13	406	29.97	0.00	61	52	73	17	11	20	18	29.75	0.00	64	59	83	22	1	6		
15	127	30.27	0.00	48	27	44	15	4	14	56	29.91	0.00	63	54	74	18	11	22	90	29.79	0.00	67	58	75	21	8	15		
18	0	30.24	0.00	39	34	84	15	2	7	0	29.90	0.00	61	54	77	18	5	14	0	29.85	0.00	62	55	80	21	5	10		
21	0	30.16	0.00	45	39	80	17	7	25	0	29.86	0.00	63	55	75	16	9	19	0	29.89	0.00	58	52	80	29	2	7		
NOV 07										NOV 08										NOV 09									
00	0	29.89	0.00	55	49	80	26	1	6	0	29.94	0.00	39	34	84	18	4	9	0	30.03	0.00	37	30	77	27	3	14		
03	0	29.89	0.00	53	48	84	27	3	7	0	29.87	0.00	40	35	83	18	4	11	0	30.12	0.00	37	29	74	28	5	13		
06	0	29.94	0.00	46	44	90	33	0	4	0	29.78	0.00	42	38	83	18	8	15	0	30.21	0.00	33	27	78	29	5	13		
09	39	30.02	0.00	44	41	89	28	4	10	30	29.76	0.00	45	40	81	18	6	11	251	30.28	0.00	37	29	72	29	6	17		
12	352	30.03	0.00	48	41	74	27	4	13	11	29.71	0.00	50	41	72	24	6	18	431	30.29	0.00	44	28	53	35	5	10		
15	104	30.00	0.00	49	38	67	26	5	10	28	29.73	0.00	51	38	60	25	9	21	90	30.32	0.00	42	25	50	28	3	13		
18	0	30.02	0.00	42	35	78	23	4	10	0	29.86	0.00	41	35	79	27	10	20	0	30.34	0.00	33	25	72	28	0	0		
21	0	29.99	0.00	41	36	82	21	3	8	0	29.95	0.00	39	29	66	28	5	24	0	30.35	0.00	30	25	82	28	0	0		
NOV 10										NOV 11										NOV 12									
00	0	30.32	0.00	27	24	87	28	0	0	0	29.71	0.00	43	39	87	18	8	14	0	29.52	0.00	47	44	88	18	5	8		
03	0	30.31	0.00	26	23	88	15	0	0	0	29.57	0.04	45	42	89	18	7	19	0	29.68	0.00	39	37	92	28	6	16		
06	0	30.26	0.00	29	24	80	18	2	5	0	29.50	0.00	46	44	92	17	9	21	0	29.84	0.00	36	34	92	30	5	19		
09	243	30.17	0.00	39	27	63	17	5	15	32	29.52	0.04	48	46	92	19	4	16	30	30.01	0.00	34	31	88	30	5	15		
12	476	30.06	0.00	51	29	43	16	6	19	137	29.52	0.00	52	49	88	19	2	14	287	30.09	0.00	38	31	75	34	8	18		
15	77	29.98	0.00	49	27	42	17	6	19	40	29.51	0.00	51	47	85	20	4	9	42	30.18	0.00	38	27	64	34	6	18		
18	0	29.91	0.00	48	28	46	18	6	15	0	29.53	0.00	50	45	84	19	2	6	0	30.30	0.00	32	23	69	33	2	13		
21	0	29.81	0.04	41	37	87	15	7	14	0	29.51	0.00	48	45	88	20	5	9	0	30.37	0.00	29	23	79	01	1	6		
NOV 13										NOV 14										NOV 15									
00	0	30.41	0.00	26	22	86	35	1	3	0	30.48	0.00	23	19	86	33	0	0	0	30.08	0.00	27	21	79	26	0	0		
03	0	30.47	0.00	25	22	86	35	0	2	0	30.40	0.00	21	18	87	33	0	2	0	30.03	0.00	23	20	90	26	0	0		
06	0	30.54	0.00	24	20	85	35	3	9	0	30.38	0.00	22	19	87	00	0	0	0	30.01	0.00	23	20	89	26	0	0		
10	243	30.58	0.00	28	23	82	33	2	9	193	30.37	0.00	28	25	88	00	0	0	241	29.99	0.00	28	25	88	28	0	0		
12	417	30.56	0.00	38	25	61	28	1	6	399	30.27	0.00	43	24	46	00	0	3	408	29.92	0.00	40	24	52	25	6	11		
15	46	30.53	0.00	37	25	63	27	1	7	70	30.20	0.00	39	27	60	26	1	7	51	29.86	0.00	42	27	55	34	1	5		
18	0	30.53	0.00	28	22	80	28	0	0	0	30.18	0.00	31	24	77	26	0	0	0	29.84	0.00	30	25	79	34	0	0		
21	0	30.51	0.00	24	20	85	33	0	0	0	30.12	0.00	26	22	84	26	0	0	0	29.80	0.00	29	24	82	34	0	0		
NOV 16										NOV 17										NOV 18									
00	0	29.76	0.00	31	25	80	34	0	0	0	29.98	0.00	38	25	59	29	0	3	0	29.81	0.00	38	29	70	19	0	4		
03	0	29.78	0.00	35	26	70	26	0	0	0	30.01	0.00	34	24	68	28	0	1	0	29.79	0.00	41	31	69	17	0	4		
06	0	29.79	0.00	33	28	84	23	0	0	0	30.05	0.00	33	24	69	28	0	1	0	29.80	0.00	39	36	90	17	0	0		
09	79	29.84	0.00	38	28	68	23	0	0	214	30.05	0.00	35	27	71	29	0	0	58	29.80	0.00	44	37	78	17	2	7		
12	406	29.85	0.00	50	29	44	29	3	10	403	30.01	0.00	50	27	41	02	1	4	47	29.77	0.00	49	43	80	20	1	4		
15	53	29.87	0.00	51	28	42	32	3	6	90	29.98	0.00	48	26	42	26	0	3	23	29.79	0.00	46	42	87	29	1	11		
18	0	29.92	0.00	41	26	55	26	0	4	0	29.91	0.00	41	29	62	26	0	0	0	29.85	0.00	44	39	82	26	5	11		
21	0	29.96	0.00	43	26	51	26	2	10	0	29.89	0.00	39	29	66	26	0	0	0	29.87	0.00	44	39	83	28	4	12		

HOURLY PRECIPITATION (Water Equivalent)
November 2024: Westford

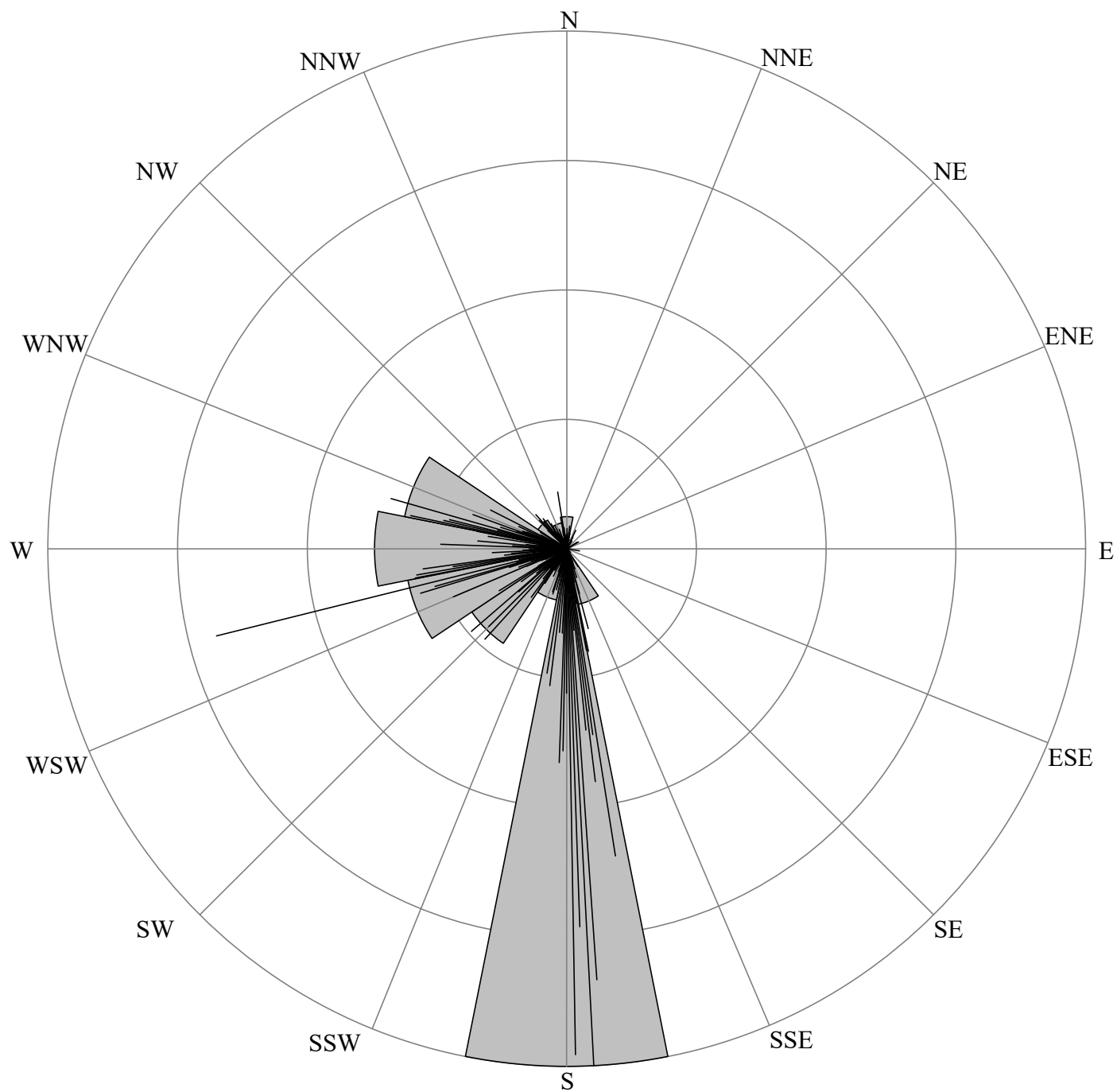
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01					0.10	0.06													0.06	0.02		0.01			01
02																									02
03																									03
04																		0.04	0.04	0.01					04
05		0.04	0.01																						05
06																									06
07																									07
08																									08
09																									09
10																			0.01	0.01	0.04				10
11	0.01		0.02	0.03					0.02	0.01				0.01		0.01	0.01				0.01				11
12	0.06	0.02	0.01	0.01	0.01	0.02	0.03	0.02																	12
13																									13
14																									14
15																									15
16																									16
17																									17
18					0.01																				18
19																									19
20																									20
21													0.02	0.02						0.03	0.04				21
22		0.04							0.01	0.01															22
23						0.01	0.01		0.04	0.01		0.01	0.02	0.02									0.03		23
24	0.01	0.02																							24
25																									25
26								0.01	0.10	0.06	0.07	0.10	0.05	0.08	0.01				0.01						26
27																									27
28																									28
29																									29
30																									30
Sum	0.08	0.12	0.04	0.04	0.12	0.09	0.04	0.03	0.17	0.09	0.07	0.11	0.09	0.13	0.01	0.01	0.01	0.04	0.12	0.04	0.08	0.05	0.00	0.03	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 November 2024: Westford



Wind Rose: November 2024
Westford



Maximum direction of wind: 97.7 miles from 177°
Maximum sector of wind: 762.7 miles from S
2018.4 total miles of wind