

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### October 2003

Station: Westford  
 Latitude: 44° 37' 39" 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			Wind						Sun			
	Maximum	Minimum	Average	Mean	Dew Point		Mean	Heating			Cooling	Water Equivalent	Ice Pellets Snow	Adj. to Sea Level			Avg	Res	Res	Peak			Minute		Mean Index
														Maximum	Minimum	Mean				Speed	Speed		Dir	Speed	
1	2	3	4A	4B	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	53.5	41.9	47.7	45.8	42	86	18	0	.....	0	0.03	0.0	30.11	30.01	30.074	1.0	0.8	209	16	WSW	0	0			
2	49.1	35.5	42.3	42.1	39	87	23	0	.....	0	0.18	0	30.01	29.86	29.919	2.1	1.5	239	21	WNW	6	313			
3	51.6	33.1	42.3	41.7	32	69	23	0	.....	0	0.03	0.0	30.10	29.88	30.005	3.0	2.3	208	21	W	0	0			
4	47.9	40.8	44.4	45.1	39	81	21	0	.....	0	0.31	0.0	29.87	29.61	29.720	4.9	4.6	182	30	S	0	0			
5	50.7	36.8	43.8	42.6	37	81	22	0	.....	0	0.01	0.0	29.96	29.72	29.813	4.0	3.4	219	24	SSW	0	0			
6	51.1	30.6	40.8	40.6	35	81	25	0	.....	0	0.00	0.0	30.12	29.95	30.057	1.3	1.1	267	16	W	0	0			
7	55.1	30.3	42.7	43.0	36	77	23	0	.....	0	0.00	0.0	30.17	30.04	30.107	2.7	2.5	188	14	S	3	170			
8	66.4	40.2	53.3	53.5	43	69	12	0	.....	0	0.00	0.0	30.15	30.01	30.078	3.4	3.3	190	18	S	0	0			
9	72.0	49.8	60.9	58.4	53	83	5	0	.....	0	0.00	0.0	30.20	30.06	30.152	1.1	0.7	227	10	W	0	0			
10	76.7	47.7	62.2*	58.7	54	87	3	0	.2.....	0	0.00	0.0	30.25	30.15	30.194	0.5	0.4	192	11	SSW	0	183			
11	76.8*	46.4	61.6	58.5	52	82	4	0	.....	0	0.01	0.0	30.25	30.05	30.160	0.3	0.2	313	10	WNW	1	276			
12	71.6	46.0	58.8	58.2	52	81	7	0	.....	0	0.02	0.0	30.05	29.72	29.867	1.4	1.0	219	17	NW	11	295			
13	61.6	41.6	51.6	51.6	43	75	14	0	.....	0	0.00	0.0	29.94	29.81	29.875	1.8	1.8	301	18	NW	0	0			
14	67.6	37.0	52.3	51.5	42	73	13	0	.....	0	0.00	0.0	29.96	29.45	29.783	3.4	3.1	168	28	SE	17	167			
15	55.4	40.8	48.1	49.3	46	87	17	0	.....	0	0.69	0.0	29.53	28.78	29.116	7.4	5.3	211	40	SW	21	234			
16	47.4	37.5	42.5	42.3	34	72	23	0	.....	0	0.13	0.0	29.98	29.54	29.795	6.1	5.3	244	33	W	13	246			
17	46.8	32.9	39.9	39.3	35	84	26	0	.....	0	0.04	0.0	30.12	29.99	30.075	1.4	1.0	237	18	NW	1	0			
18	44.5	29.1	36.8	36.6	34	90	29	0	...4....	0	0.05	0	30.09	29.94	30.010	0.6	0.2	250	22	W	5	301			
19	43.8	26.6*	35.2	34.0	30	86	30	0	.....	0	0.01	0.0	30.11	29.92	30.000	0.5	0.4	343	13	WNW	1	338			
20	44.5	27.3	35.9	36.5	30	79	30	0	.....	0	0.05	0.0	30.15	29.72	30.040	3.4	3.3	192	19	S	0	0			
21	48.2	32.2	40.2	39.9	39	97	25	0	.23.....	0	1.66	0.0	29.74	29.29	29.498	3.1	0.7	297	22	WNW	6	7			
22	41.1	30.7	35.9	33.1	28	82	30	0	.....	0	0.00	0.0	29.65	29.59	29.618	1.9	1.8	352	17	N	0	0			
23	34.3	29.5	31.9*	32.4	27	79	34	0	.....	0	0.01	0.0	29.68	29.52	29.571	3.7	3.3	300	21	WNW	3	326			
24	40.1	29.8	34.9	34.3	25	70	31	0	.....	0	0.02	0.0	30.32	29.68	30.015	4.3	4.1	292	22	WNW	0	0			
25	48.6	27.5	38.0	40.0	29	64	27	0	.....	0	0.00	0.0	30.39	30.23	30.308	4.8	4.7	185	22	SSW	0	0			
26	61.5	48.0	54.8	53.7	48	80	11	0	.....	0	0.68	0.0	30.23	29.85	30.007	5.9	5.4	190	31	SSW	11	293			
27	48.0	40.2	44.1	43.8	43	98	21	0	.....	0	1.03	0.0	29.93	29.50	29.727	1.1	0.9	309	19	WNW	0	0			
28	51.6	35.8	43.7	42.6	38	85	22	0	.....	0	0.00	0.0	29.93	29.67	29.858	1.3	1.1	209	11	S	3	68			
29	45.1	36.2	40.6	42.6	41	95	25	0	.2.....	0	1.50	0.0	29.88	29.49	29.665	1.6	1.1	282	16	SW	0	51			
30	53.3	36.0	44.6	44.4	36	73	21	0	.....	0	0.00	0.0	30.25	29.70	30.044	4.6	4.4	238	21	WSW	2	185			
31	64.8	37.2	51.0	55.1	41	61	14	0	.....	0	0.00	0.0	30.25	30.00	30.110	7.6	7.6	184	28	S	14	190			
Sum	Sum	-----	-----	---	----	Ttl	Ttl						For the month:						---						
1671	1135					629	0		Number of Days		6.46	T	30.39	28.78	29.912	2.9	1.8	220	40	SW	21	234			
Avg	Avg	Avg	Mean	Avg	Avg	----	----		Precip		Season Ttl	Date	Date	-----	----	----	----	---	Date	Date	Avg				
53.9	36.6	45.3	44.9	39	80.5	----	----		>.01 inch	19	36.33	T	25	15	-----	----	----	---	15	15					
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			877	316	Thunder	1	Precipitation			Snow, Ice Plts												
> 90°F	< 32°F	< 32°F	< 0°F	----	----	Heavy Fog	3	1.71	20-21	T	2+	0						-							
0	0	9	0	----	----	Clear	6	Partly Cloudy	10	Cloudy	15														

**NOTES:**

Units are: Temperature=°F, Wind=mph, Pressure=inches Hg, Precipitation=inches.  
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.  
 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: Sunshine index is measured in Watts/m² and is continuously averaged for 24 hours.  
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

## OBSERVATIONS AT 3-HOUR INTERVALS

## October 2003: 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	
OCT 01																												
01		30.09	0.00	46	43	89	18	2	6		29.99	0.00	44	40	87	15	0	2		30.00	0.00	36	34	94	29	5	14	
04		30.10	0.00	44	40	84	00	0	0		29.94	0.00	41	40	95	00	0	0		30.03	0.00	35	32	89	24	3	10	
07		30.11	0.00	43	41	95	18	0	0		29.92	0.00	42	41	94	18	3	7		30.09	0.00	34	31	89	20	1	3	
10		30.11	0.00	47	43	89	18	2	5		29.93	0.00	44	41	92	20	1	4		30.10	0.00	42	35	75	13	2	7	
13		30.08	0.00	53	42	66	18	4	4		29.89	0.00	45	40	84	22	1	5		30.03	0.00	49	32	51	20	4	12	
16		30.04	0.00	53	40	62	29	1	5		29.87	0.00	42	38	86	13	4	10		29.96	0.00	50	31	48	18	5	12	
19		30.05	0.00	44	41	91	00	0	0		29.89	0.00	41	34	75	27	2	7		29.94	0.00	43	30	60	18	1	6	
22		30.03	0.00	43	40	89	18	1	3		29.93	0.00	39	34	84	27	7	15		29.91	0.00	46	38	28	49	18	3	12
OCT 02																												
OCT 03																												
OCT 04																												
OCT 05																												
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OCT 07																												
OCT 08																												
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OCT 12																												
OCT 13																												
OCT 14																												
OCT 15																												
OCT 16																												
OCT 17																												
OCT 18																												

## MAXIMUM SHORT DURATION PRECIPITATION

Time Period (minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation	0.06	0.10	0.13	0.16	0.21	0.28	0.33	0.42	0.47	0.51	0.56	0.60
Ended: Date	26	26	26	26	26	26	26	26	26	26	26	26
Ended: Time	1936	2032	2038	2038	2049	2050	2057	2050	2053	2112	2137	2212

The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

OBSERVATIONS AT 3-HOUR INTERVALS

October 2003: Westford

Hour	Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind			Sunshine	Pressure	Rainfall rate	Temperature	Dew Point	Wind																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						Humidity	Direction	Speed						Gust	Humidity	Direction						Speed	Gust	Humidity	Direction	Speed	Gust																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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01		29.94	0.00	29	28	96	00	0	0	30.11	0.00	31	28	87	20	0	2	29.70	0.01	39	38	95	02	3	7	04		29.92	0.00	28	27	96	00	0	0	30.13	0.00	30	27	88	18	2	4	29.54	0.01	43	42	95	13	3	9	07		29.95	0.00	28	27	96	00	0	0	30.15	0.00	28	25	87	20	3	6	29.43	0.00	47	46	97	18	4	11	10		29.98	0.00	36	35	96	04	0	2	30.14	0.00	37	30	74	20	5	11	29.33	0.00	48	47	98	13	5	10	13		29.99	0.00	40	35	82	00	1	4	30.07	0.00	42	29	59	20	8	13	29.33	0.01	43	42	97	29	10	22	16		30.02	0.00	41	30	65	33	1	6	30.00	0.00	43	33	68	18	7	16	29.49	0.00	35	35	99	29	7	14	19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																
04		29.92	0.00	28	27	96	00	0	0	30.13	0.00	30	27	88	18	2	4	29.54	0.01	43	42	95	13	3	9	07		29.95	0.00	28	27	96	00	0	0	30.15	0.00	28	25	87	20	3	6	29.43	0.00	47	46	97	18	4	11	10		29.98	0.00	36	35	96	04	0	2	30.14	0.00	37	30	74	20	5	11	29.33	0.00	48	47	98	13	5	10	13		29.99	0.00	40	35	82	00	1	4	30.07	0.00	42	29	59	20	8	13	29.33	0.01	43	42	97	29	10	22	16		30.02	0.00	41	30	65	33	1	6	30.00	0.00	43	33	68	18	7	16	29.49	0.00	35	35	99	29	7	14	19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																										
07		29.95	0.00	28	27	96	00	0	0	30.15	0.00	28	25	87	20	3	6	29.43	0.00	47	46	97	18	4	11	10		29.98	0.00	36	35	96	04	0	2	30.14	0.00	37	30	74	20	5	11	29.33	0.00	48	47	98	13	5	10	13		29.99	0.00	40	35	82	00	1	4	30.07	0.00	42	29	59	20	8	13	29.33	0.01	43	42	97	29	10	22	16		30.02	0.00	41	30	65	33	1	6	30.00	0.00	43	33	68	18	7	16	29.49	0.00	35	35	99	29	7	14	19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																				
10		29.98	0.00	36	35	96	04	0	2	30.14	0.00	37	30	74	20	5	11	29.33	0.00	48	47	98	13	5	10	13		29.99	0.00	40	35	82	00	1	4	30.07	0.00	42	29	59	20	8	13	29.33	0.01	43	42	97	29	10	22	16		30.02	0.00	41	30	65	33	1	6	30.00	0.00	43	33	68	18	7	16	29.49	0.00	35	35	99	29	7	14	19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																														
13		29.99	0.00	40	35	82	00	1	4	30.07	0.00	42	29	59	20	8	13	29.33	0.01	43	42	97	29	10	22	16		30.02	0.00	41	30	65	33	1	6	30.00	0.00	43	33	68	18	7	16	29.49	0.00	35	35	99	29	7	14	19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																								
16		30.02	0.00	41	30	65	33	1	6	30.00	0.00	43	33	68	18	7	16	29.49	0.00	35	35	99	29	7	14	19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																		
19		30.08	0.00	36	30	78	33	0	1	29.96	0.00	41	33	74	20	3	8	29.58	0.00	33	32	97	31	2	7	22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																												
22		30.10	0.00	36	29	75	27	0	3	29.82	0.00	40	37	74	20	1	4	29.60	0.00	33	32	97	02	1	6	OCT 22								OCT 23								OCT 24								01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																						
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01		29.59	0.00	32	31	95	00	1	7	29.58	0.00	32	27	80	00	0	3	29.70	0.00	34	25	69	27	10	17	04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																								
04		29.59	0.00	31	29	93	33	1	5	29.54	0.00	30	26	84	33	1	5	29.77	0.00	33	26	77	27	6	14	07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																		
07		29.62	0.00	31	29	93	00	3	10	29.55	0.00	30	25	83	33	2	6	29.88	0.00	32	27	81	31	2	6	10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																												
10		29.64	0.00	33	29	86	00	2	7	29.55	0.00	33	30	88	33	2	6	29.99	0.00	35	26	69	31	7	14	13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																						
13		29.60	0.00	39	30	71	00	5	12	29.52	0.00	33	30	87	31	5	16	30.05	0.00	36	24	62	29	7	14	16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																
16		29.62	0.00	36	27	71	00	2	7	29.55	0.00	33	26	74	29	6	11	30.12	0.00	39	26	59	31	3	7	19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																										
19		29.65	0.00	33	25	73	00	0	3	29.61	0.00	33	26	76	27	7	14	30.23	0.00	33	24	69	24	0	2	22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																																																				
22		29.62	0.00	32	25	74	00	1	5	29.66	0.00	34	25	69	29	5	12	30.29	0.00	31	25	79	18	1	2	OCT 25								OCT 26								OCT 27								01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																																																																														
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01		30.35	0.00	29	23	80	20	2	4	30.22	0.00	49	39	68	18	7	12	29.91	0.00	48	47	96	00	1	3	04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
04		30.37	0.00	34	24	68	20	3	7	30.16	0.00	50	41	72	18	6	12	29.89	0.01	46	46	98	02	0	2	07		30.37	0.00	36	25	64	18	5	11	30.12	0.00	51	41	69	15	4	8	29.83	0.00	45	45	99	31	1	10	10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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10		30.38	0.00	39	24	54	18	8	18	30.01	0.00	54	49	82	18	10	24	29.79	0.00	44	44	98	00	0	2	13		30.30	0.00	44	26	48	18	7	17	29.91	0.00	60	54	83	18	10	28	29.69	0.00	43	42	98	00	1	6	16		30.25	0.00	42	33	71	18	4	9	29.87	0.00	61	55	79	20	11	22	29.60	0.02	43	42	98	00	0	3	19		30.25	0.00	45	34	65	20	4	7	29.88	0.00	59	54	84	31	5	12	29.55	0.00	43	42	98	00	0	0	22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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22		30.24	0.00	48	36	65	18	7	13	29.93	0.00	49	49	98	02	0	1	29.59	0.01	41	40	98	31	4	10	OCT 28								OCT 29								OCT 30								01		29.70	0.00	40	40	98	27	0	2	29.84	0.00	39	37	91	06	2	3	29.74	0.00	44	39	85	24	6	14	04		29.76	0.00	41	40	96	15	0	2	29.80	0.00	43	41	91	00	0	0	29.85	0.00	43	37	80	22	4	11	07		29.85	0.00	42	39	91	18	2	5	29.72	0.01	43	42	97	04	1	2	29.94	0.00	43	35	72	24	8	16	10		29.90	0.00	48	36	65	24	4	9	29.60	0.01	44	43	98	00	1	5	30.03	0.00	48	37	66	24	9	16	13		29.91	0.00	51	39	64	20	5	11	29.49	0.00	44	44	98	31	2	8	30.10	0.00	52	36	54	24	8	13	16		29.90	0.00	47	39	76	00	0	0	29.57	0.00	43	42	97	31	2	6	30.16	0.00	50	36	57	22	6	12	19		29.92	0.00	38	36	93	11	1	2	29.63	0.00	43	40	90	27	6	12	30.21	0.00	42	35	77	18	2	5	22		29.91	0.00	37	35	95	00	0	0	29.67	0.00	43	40	90	22	2	5	30.24	0.00	38	33	83	00	0	0	OCT 31																								01		30.25	0.00	40	34	79	20	2	6																	04		30.19	0.00	46	36	68	18	4	9																	07		30.16	0.00	47	36	67	18	5	8																	10		30.14	0.00	57	40	53	18	14	26																	13		30.06	0.00	63	43	48	18	10	18																	16		30.04	0.00	62	45	52	18	7	17																	19		30.05	0.00	62	47	58	18	10	20																	22		30.02	0.00	60	47	62	18	7	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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WEATHER NOTES

SUMMARY BY HOUR

NOTES:

Units are: 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 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

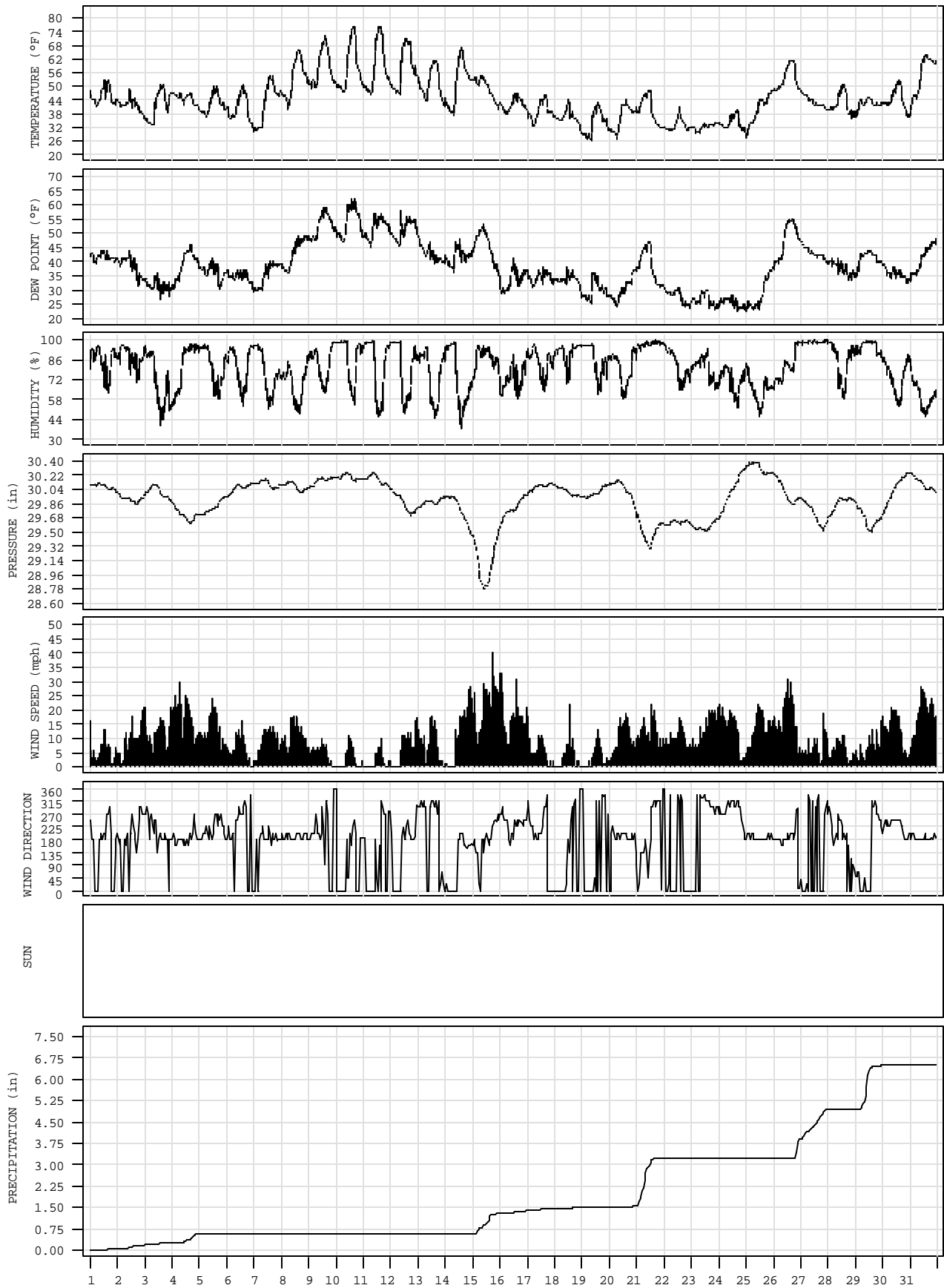
Hour	Averages						Resultant Wind	
	Sunshine	Pressure	Temperature	Dew Point	Humidity	Wind Speed	Direction	Speed
01		29.929	41	37	86	2.6	24	1.4
04		29.918	41	37	87	1.8	21	1.3
07		29.925	40	37	88	2.1	19	1.4
10		29.922	46	40	80	3.9	20	2.6
13		29.887	51	40	68	5.0	22	2.9
16		29.878	51	40	70	3.7	22	2.2
19		29.910	45	39	80	2.4	23	1.6
22		29.923	43	38	84	2.3	22	1.4

**HOURLY PRECIPITATION (Water Equivalent)  
October 2003: Westford**

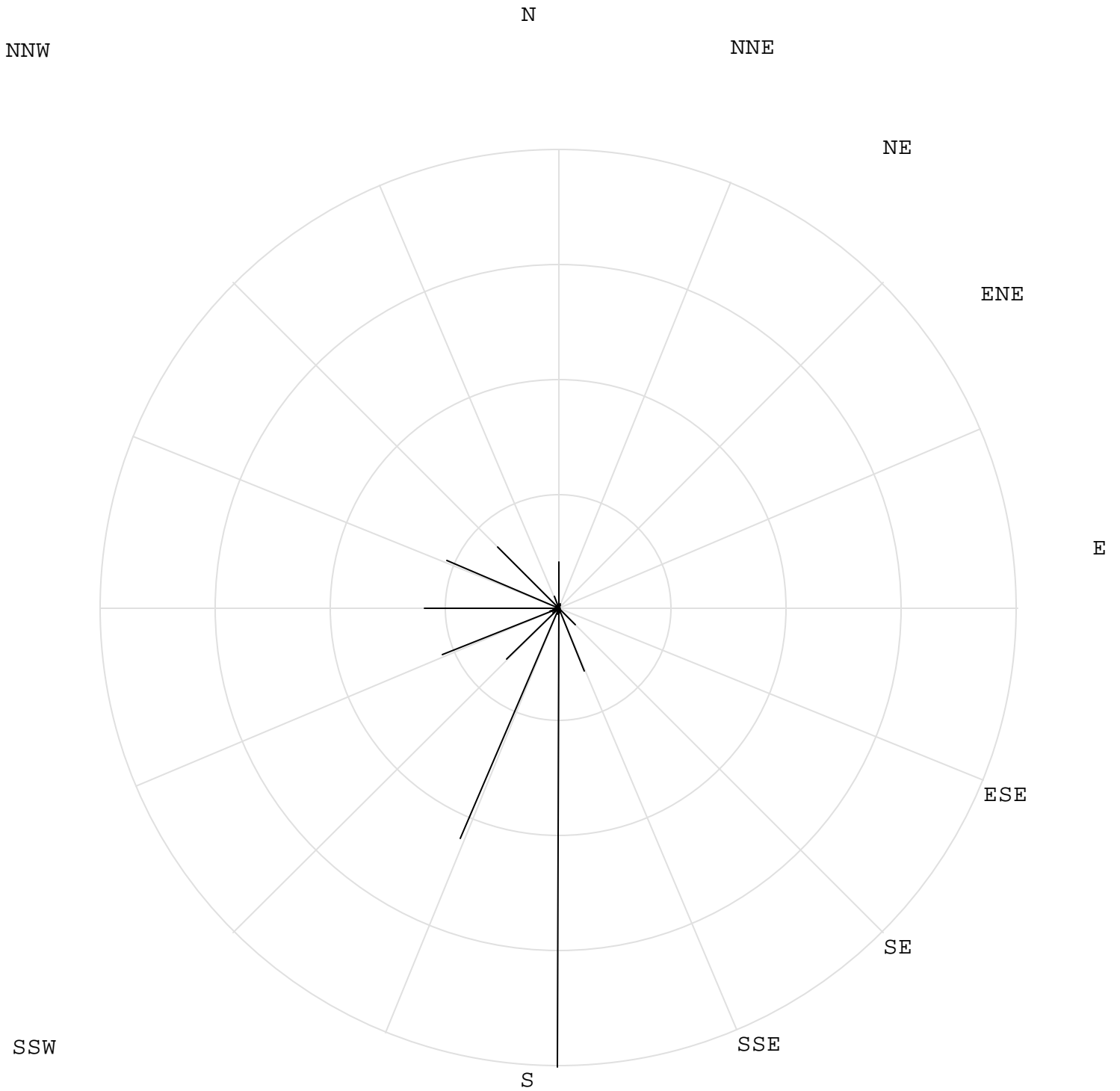
Date	A.M. Hour Ending at												P.M. Hour Ending at												Date
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
01	0.02																							01	
02					0.01			0.02		0.02			0.01	0.06		0.01								02	
03	0.02												0.01			0.02							0.04	03	
04										0.02	0.03	0.04	0.03	0.01		0.01	0.03	0.06	0.07		0.01			04	
05								0.01																05	
06																								06	
07																								07	
08																								08	
09																								09	
10																								10	
11											0.01													11	
12																						0.02		12	
13																								13	
14																								14	
15				0.07	0.07	0.03	0.03	0.01	0.09	0.02		0.03	0.06	0.05	0.13	0.06	0.03				0.01			15	
16										0.02			0.04		0.04							0.02	0.01	16	
17	0.02											0.01		0.01										17	
18													0.02	0.01	0.02									18	
19										0.01														19	
20																			0.01	0.03		0.01		20	
21	0.02	0.14	0.11	0.06	0.17	0.12	0.28	0.24	0.15	0.07	0.05	0.08	0.11	0.03	0.02			0.01						21	
22																								22	
23											0.01													23	
24											0.01		0.01											24	
25																								25	
26																								26	
27		0.01	0.07	0.10	0.06		0.01	0.02	0.07	0.03	0.04	0.05	0.04	0.04	0.05	0.06	0.12	0.04	0.05	0.17	0.31	0.09	0.08	0.03	27
28																				0.07	0.04	0.03	0.03		28
29					0.02	0.05	0.11	0.08	0.21	0.32	0.41	0.16	0.10	0.01	0.01	0.01	0.01					0.02	0.02		29
30																									30
31																									31
Sum	0.08	0.15	0.18	0.23	0.33	0.20	0.43	0.38	0.52	0.51	0.56	0.37	0.41	0.23	0.26	0.19	0.19	0.11	0.12	0.25	0.40	0.14	0.18	0.08	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.)

HOURLY-BY-HOURLY DATA  
October 2003: Westford



Wind Rose: October 2003  
Westford



Maximum direction of wind: 648.7 miles from 180°.  
2169.5 total miles of wind.