

WS FORM F-6										STATION MOUNT WASHINGTON OBSERVATORY									
PRELIMINARY LOCAL CLIMATOLOGICAL DATA										MONTH DECEMBER					YEAR 2010				
LATITUDE 44 DEGREES 16 MINUTES NORTH					LONGITUDE 71 DEGREES 18 MINUTES WEST					GROUND ELEVATION (H) 6280 FT					STANDARD TIME EASTERN				
TEMPERATURE (°F)										PRECIPITATION (IN.)			WIND (MPH)			SUNSHINE (MINUTES)		SKY COVER (TENTHS)	WEATHER OCCUR.
DAY	MAX	MIN	AVG	NORM	DEPART	HEAT	COOL	TOTAL (EQUIV)	SNOW & ICE	SNOW/ICE ON GROUND-6AM	AVG SPEED	FASTEST MILE SPEED	DIR	TOTAL	% POSS	(TENTHS)	WEATHER OCCUR.		
1	32	26	29	15	14	36	0	0.49	0.6	3	54.3	94	SE	0	0	10	1246		
2	30	10	20	14	6	45	0	0.07	0.7	4	14.5	38	SE	50	9	9	126		
3	15	8	12	14	-2	53	0	0.02	1.0	5	13.3	32	NW	30	5	10	126		
4	19	9	14	14	0	51	0	0.17	1.7	7	15.5	49	NW	25	5	10	126		
5	20	9	15	13	2	50	0	0.00	0.0	7	5.2	11	E	525	95	3	126		
6	10	-2	4	13	-9	61	0	0.27	3.7	7	39.0	70	W	0	0	10	1269		
7	2	-5	-1	13	-14	66	0	0.03	0.7	8	39.0	57	W	10	2	10	1269		
8	-3	-11	-7	12	-19	72	0	0.01	0.2	8	32.5	49	W	5	1	10	126		
9	-3	-12	-7	12	-19	72	0	0.01	0.1	8	24.0	43	NW	432	79	9	126		
10	12	-6	3	12	-9	62	0	0.03	0.3	8	25.9	55	W	376	69	8	1269		
11	23	6	15	11	4	50	0	0.05	1.0	8	35.5	56	W	5	1	10	1269		
12	33	14	24	11	13	41	0	2.09	2.5	8	47.0	82	SE	0	0	10	12469		
13	36	20	28	11	17	37	0	1.85	5.6	8	29.7	78	SE	0	0	10	12469		
14	21	7	14	10	4	51	0	0.25	1.7	13	14.3	35	SE	367	67	5	1269		
15	9	-12	-1	10	-11	66	0	0.09	1.3	13	21.3	45	NW	120	22	9	1269		
16	1	-12	-5	10	-15	70	0	0.01	0.8	14	22.7	38	W	95	17	10	126		
17	5	-4	1	9	-8	64	0	0.03	0.4	14	27.9	50	NW	92	17	9	1269		
18	12	4	8	9	-1	57	0	T	0.2	14	10.8	26	NW	165	30	9	126		
19	15	3	9	9	0	56	0	T	0.1	14	9.4	19	S	531	98	5	126		
20	15	5	10	9	1	55	0	0.14	2.2	14	20.5	49	N	0	0	9	1269		
21	18	10	14	8	6	51	0	0.15	2.0	15	35.0	62	N	0	0	10	1269		
22	15	7	11	8	3	54	0	0.47	4.1	16	33.8	55	N	0	0	10	1269		
23	15	6	11	8	3	54	0	0.29	2.7	20	31.2	54	N	0	0	10	1269		
24	17	9	13	8	5	52	0	0.00	0.0	20	32.4	55	N	543	100	8	9		
25	22	12	17	7	10	48	0	0.00	0.0	19	12.0	40	N	382	70	9			
26	18	5	12	7	5	53	0	0.17	1.0	19	22.4	81	NE	30	6	9	1269		
27	7	-14	-3	7	-10	68	0	1.02	7.8	20	50.0	78	NE	0	0	10	1269		
28	4	-15	-5	7	-12	70	0	0.00	0.0	21	69.0	105	NW	145	27	8	1269		
29	19	-1	9	7	2	56	0	T	T	21	60.8	87	NW	0	0	10	1269		
30	26	17	22	7	15	43	0	0.00	0.0	21	40.0	62	NW	510	93	8			
31	37	22	30	7	23	35	0	0.00	0.0	20	44.2	61	W	30	5	10	126		
SUM	502	115	----	----	----	1699	0	7.71	42.4	----	933.1	----	----	4468	----	277	----		
AVG	16.2	3.7	----	----	----	----	----	----	----	----	30.1	FASTEST	DIR	POSS	%	8.9	----		
												MISC. ->	105	NW	16968	26%			

<u>TEMPERATURE DATA (°F)</u>		<u>PRECIPITATION DATA (IN.)</u>		<u>WEATHER</u>		<u>SYMBOLS USED IN COLUMN 16</u>	
AVERAGE MONTHLY	10.0	TOTAL FOR THE MONTH	7.71	NUMBER OF DAYS:	1 = FOG		
DEPARTURE FROM NORMAL	-0.1	DEPARTURE FROM NORMAL	-1.13		2 = FOG REDUCING VISIBILITY		
HIGHEST	37 on 31st	24 HOUR MAX	2.95 on 12th/13th	CLEAR (SCALE 0-3)	1	TO 1/4 MILE OR LESS	
LOWEST	-15 on 28th			PARTLY CLOUDY (SCALE 4-7)	2	3 = THUNDER	
		SNOWFALL, ICE PELLETS (IN.)		CLOUDY (SCALE 8-10)	28	4 = ICE PELLETS	
NUMBER OF DAYS WITH:						5 = HAIL	
		TOTAL FOR THE MONTH	42.4	WITH .01" OR MORE PRECIP	22	6 = GLAZE OR RIME	
MAX. 32 OR BELOW	28	24 HOUR MAX	8.7 on 26th/27th	WITH .10" OR MORE PRECIP	12	7 = BLOWING DUST OR SAND	
MAX. 90 OR ABOVE	0	MAX DEPTH ON GROUND	22 on 27th	WITH .50" OR MORE PRECIP	3	RED. VIS. TO 1/2 MILE OR LESS	
MIN. 32 OR BELOW	31			WITH 1.0" OR MORE PRECIP	3	8 = SMOKE OR HAZE	
MIN. 0 OR BELOW	11	<u>PRESSURE DATA (IN.)</u>				9 = BLOWING SNOW	
		HIGHEST SEA-LEVEL	30.360 on 10th			X = TORNADO	
HEATING DEGREE DAYS (BASE 65°F)		LOWEST SEA-LEVEL	28.963 on 27th				
		AVG STATION	23.310				
TOTAL THIS MONTH	1699						
DEPARTURE FROM NORMAL	-3						
SEASON TOTAL	5698						
DEPARTURE FROM NORMAL	-200						

NOTES: **MONTHLY AVG WIND SPEED NOTE:** ALL WIND SPEEDS MEASURED USING THE PRIMARY PITOT-STATIC ANEMOMETER AND ITS ASSOCIATED SETRA AND FOXBORO ARE SUSPECT AS DETERMINED BY DATA ANALYSIS. RECORDED WIND SPEEDS ARE MOST LIKELY SKEWED LOW BY AT LEAST 9-12 KTS (10-14 MPH).

12TH - SNOWFALL PARTIALLY EST'D DUE TO SOME MELTING BEFORE COLLECTION

13TH: DAILY AVG WIND SPEED CONTAINS 1 HR OF OBSERVER DETERMINED WIND SPEEDS DUE DATABASE ISSUES

28TH: DAILY AVG WIND SPEED CONTAINS 8 HRS OF OBSERVER DETERMINED WIND SPEED DUE TO ICE/WATER IN TP/SP LINES OF PRIMARY PITOT AND ICE COVERING TIP OF BACKUP PITOT THAT WAS INSTALLED AT 1012EST DUE TO DISCOVERY OF ERRONEOUS DATA COMING FROM PRIMARY PITOT.

29TH: DAILY AVG WIND SPEED CONTAINS 24 HRS OF ESTIMATED SPEEDS DUE TO LACK OF ACCURATE ANEMOMETER CAPABLE OF WITHSTANDING ICING CONDITIONS.

31ST: DAILY AVG WIND SPEED CONTAINS 8 HRS OF ESTIMATED WIND SPEEDS DUE TO LACK OF ACCURATE ANEMOMETER CAPABLE OF WITHSTANDING ICING CONDITIONS.

AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR				
0600	1200	1800	0000	MONTH
83	87	86	83	85

NOTE: PEAK GUST (COL. 11) ENTERED IN PLACE OF FASTEST MILE RECORDED FROM PITOT-STATIC TYPE ANEMOMETER.

THERE WERE **243** HOURS OF PREVAILING WINDS FROM THE **NW**, **33%** OF THE TOTAL HOURS OF THE MONTH.

