

WS FORM F-6										STATION MOUNT WASHINGTON OBSERVATORY										
PRELIMINARY LOCAL CLIMATOLOGICAL DATA										MONTH DECEMBER				YEAR 2016						
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.		
						DEGREE DAYS		TOTAL			SNOW & SNOW/ICE ON		AVG		FASTEST MILE		TOTAL	% POSS		
DAY	MAX	MIN	AVG	NORM	DEPART	HEAT	COOL	(EQUIV)	ICE	GROUND-7AM	SPEED	SPEED	DIR							
1	30	18	24	15	9	41	0	0.76	3.7	8	51.3	78	280 (W)	0	0	10	12469			
2	20	12	16	15	1	49	0	0.56	5.5	9	51.8	79	270 (W)	0	0	10	1269			
3	14	6	10	14	-4	55	0	1.05	11.1	13	54.9	82	300 (NW)	0	0	10	1269			
4	21	4	13	14	-1	52	0	0.06	1.0	16	33.7	65	320 (NW)	378	68	4	1269			
5	21	10	16	14	2	49	0	0.55	6.5	16	34.0	70	310 (NW)	0	0	10	1269			
6	27	10	19	13	6	46	0	0.00	0.0	18	32.3	68	320 (NW)	425	77	5	1269			
7	25	12	19	13	6	46	0	0.10	1.2	18	30.7	53	280 (W)	0	0	10	126			
8	13	5	9	13	-4	56	0	0.22	2.8	18	43.2	81	280 (W)	0	0	10	1269			
9	5	-11	-3	12	-15	68	0	0.43	6.3	20	68.5	94	290 (W)	0	0	10	1269			
10	-7	-12	-9	12	-21	74	0	T	T	21	49.5	77	300 (NW)	33	6	10	1269			
11	4	-9	-2	11	-13	67	0	0.02	0.5	21	36.3	54	300 (NW)	0	0	10	126			
12	18	3	11	11	0	54	0	0.82	9.3	22	49.9	85	280 (W)	0	0	10	1269			
13	14	2	8	11	-3	57	0	0.24	2.8	23	42.5	96	290 (W)	311	57	9	1269			
14	14	-4	5	10	-5	60	0	0.12	1.6	24	47.1	68	280 (W)	0	0	10	1269			
15	-1	-32	-16	10	-26	81	0	0.14	2.1	24	53.6	95	300 (NW)	7	1	10	1269			
16	-5	-35	-20	10	-30	85	0	0.00	0.0	23	65.8	94	290 (W)	400	73	4	1269			
17	34	-6	14	9	5	51	0	0.53	6.5	22	47.7	87	250 (W)	0	0	10	1269			
18	40	-12	14	9	5	51	0	0.57	0.2	17	73.7	113	250 (W)	0	0	10	12469			
19	7	-13	-3	9	-12	68	0	0.00	0.0	14	38.0	82	300 (NW)	479	88	4	126			
20	15	3	9	9	0	56	0	0.00	0.0	14	42.7	81	260 (W)	334	62	8	1269			
21	15	5	10	8	2	55	0	T	0.1	14	53.5	78	280 (W)	0	0	10	1269			
22	16	10	13	8	5	52	0	0.21	2.8	14	38.2	70	300 (NW)	0	0	10	1269			
23	19	8	14	8	6	51	0	0.06	0.9	15	53.0	73	300 (NW)	0	0	10	1269			
24	27	14	21	8	13	44	0	0.20	1.9	13	59.4	102	320 (NW)	0	0	10	1269			
25	14	0	7	7	0	58	0	0.08	0.7	10	60.5	101	290 (W)	292	54	5	1269			
26	35	10	23	7	16	42	0	0.26	0.8	10	38.1	112	240 (SW)	70	13	9	12469			
27	36	9	23	7	16	42	0	0.30	0.2	8	71.1	126	260 (W)	0	0	10	126			
28	15	-1	7	7	0	58	0	0.06	0.9	8	41.7	71	280 (W)	0	0	10	1269			
29	18	5	12	6	6	53	0	0.91	10.3	8	35.7	71	150 (SE)	0	0	10	1269			
30	12	-9	2	6	-4	63	0	1.02	12.0	13	73.1	113	280 (W)	0	0	10	1269			
31	13	-11	1	6	-5	64	0	0.16	1.9	13	50.5	85	280 (W)	0	0	10	1269			
SUM	529	-9	----	----	----	1748	0	9.43	93.6	----	1522.0	----	----	2729	----	278	----	----	----	
AVG	17.1	-0.3	----	----	----	----	----	----	----	----	49.1	FASTEST	DIR	POSS	16%	9.0	----	----	----	
											MISC. ->	126	260 (W)	16968			----			

<u>TEMPERATURE DATA (°F)</u>		<u>PRECIPITATION DATA (IN.)</u>		<u>WEATHER</u>		<u>SYMBOLS USED IN COLUMN 16</u>																
AVERAGE MONTHLY	8.4	TOTAL FOR THE MONTH	9.43	NUMBER OF DAYS:	1 = FOG																	
DEPARTURE FROM NORMAL	-1.7	DEPARTURE FROM NORMAL	1.70	CLEAR (SCALE 0-3)	0	TO 1/4 MILE OR LESS																
HIGHEST	40 on 18th	24 HOUR MAX	1.72 on 29th/30th	PARTLY CLOUDY (SCALE 4-7)	5	3 = THUNDER																
LOWEST	-35 on 16th	SNOWFALL, ICE PELLETS (IN.)		CLOUDY (SCALE 8-10)	26	4 = ICE PELLETS																
NUMBER OF DAYS WITH:		TOTAL FOR THE MONTH	93.6	WITH .01" OR MORE PRECIP	25	5 = HAIL																
MAX. 32 OR BELOW	27	24 HOUR MAX	20.0 on 29th/30th	WITH .10" OR MORE PRECIP	20	6 = GLAZE OR RIME																
MAX. 90 OR ABOVE	0	MAX DEPTH ON GROUND	24.0 on 14th	WITH .50" OR MORE PRECIP	9	7 = BLOWING DUST OR SAND																
MIN. 32 OR BELOW	31	<u>PRESSURE DATA (IN.)</u>		WITH 1.0" OR MORE PRECIP	2	8 = SMOKE OR HAZE																
MIN. 0 OR BELOW	13	HIGHEST SEA-LEVEL	30.832 on 26th			9 = BLOWING SNOW																
HEATING DEGREE DAYS (BASE 65°F)		LOWEST SEA-LEVEL	29.103 on 30th			X = TORNADO																
TOTAL THIS MONTH	1748	AVG STATION	23.500																			
DEPARTURE FROM NORMAL	45																					
SEASON TOTAL	5349																					
DEPARTURE FROM NORMAL	-481																					
COOLING DEGREE DAYS (BASE 65°F)																						
TOTAL THIS MONTH	0																					
DEPARTURE FROM NORMAL	0																					
SEASON TOTAL	0																					
DEPARTURE FROM NORMAL	0																					
<table border="1"> <tr> <th colspan="5">AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR</th> </tr> <tr> <th>0600</th> <th>1200</th> <th>1800</th> <th>0000</th> <th>MONTH</th> </tr> <tr> <td>91</td> <td>87</td> <td>90</td> <td>87</td> <td>89</td> </tr> </table>				AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR					0600	1200	1800	0000	MONTH	91	87	90	87	89	NOTE: PEAK GUST (COL. 11) ENTERED IN PLACE OF FASTEST MILE RECORDED FROM PITOT-STATIC TYPE ANEMOMETER. THERE WERE 450 HOURS OF PREVAILING WINDS FROM THE W, 60% OF THE TOTAL HOURS OF THE MONTH.			
AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR																						
0600	1200	1800	0000	MONTH																		
91	87	90	87	89																		
NOTES: 2ND, 3RD: WIND DIRECTION OBSERVER ESTIMATED DUE TO ERRONEOUS DATA RESULTING FROM HEAVY ICE BUILDUP AND PRIMARY WIND VANE BREAKING 3RD: LIQUID PRECIP. OBSERVER EST. DUE TO UNREALISTICALLY LOW SNOW WATER EQUIVALENT FROM BLOWING SNOW AND RIME IN CAN AT THREE COLLECTIONS 4TH: WIND VANE B FIXED AND INSTALLED BACK TO TOWER, BUT ALIGNMENT NOT VERIFIED DUE TO FOGGY CONDITIONS 5TH, 12TH, 17TH: PRECIPITATION AND SNOWFALL TOTALS PARTIALLY OBSERVER ESTIMATED DUE TO UNREASONABLY LOW AMOUNT OF SNOW AT TWO COLLECTIONS 9TH, 29th, 31st: PRECIPITATION AND SNOWFALL TOTALS PARTIALLY OBSERVER ESTIMATED DUE TO UNREASONABLY LOW AMOUNT OF SNOW AT ONE COLLECTION 15TH: DAILY RECORD LOW OF -32°F EQUALED; RECORD ORIGINALLY SET IN 1980. 18TH: NEW DAILY RECORD HIGH OF 40°F PREVIOUS RECORD OF 38°F SET IN 1967 AND TIED IN 1990. 18TH: PRECIPITATION AND SNOWFALL PARTIALLY ESTIMATED DUE TO EXCESSIVE BLOWING SNOW IN CAN AT ONE COLLECTION. 30TH: PRECIPITATION AND SNOWFALL OBSERVER ESTIMATED DUE TO UNREASONABLY LOW AMOUNT OF SNOW IN CAN AT 2 COLLECTIONS / COMPACTED BY HIGH WINDS																						