

WS FORM F-6											STATION MOUNT WASHINGTON OBSERVATORY							
PRELIMINARY LOCAL CLIMATOLOGICAL DATA											MONTH SEPTEMBER				YEAR 2016			
LATITUDE 44 DEGREES 16 MINUTES NORTH						LONGITUDE 71 DEGREES 18 MINUTES WEST					GROUND ELEVATION (H) 6280 FT			STANDARD TIME EASTERN				
TEMPERATURE (°F)						DEGREE DAYS			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-TAM	AVG SPEED	FASTEST MILE		TOTAL	% POSS			
1	51	39	45	46	-1	20	0	0.02	0.0	0	20.8	45	270 (W)	115	14	9	12	
2	46	37	42	46	-4	23	0	0.00	0.0	0	18.3	37	350 (N)	117	15	9	12	
3	53	42	48	46	2	17	0	0.00	0.0	0	15.3	30	350 (N)	800	100	5		
4	58	48	53	46	7	12	0	0.00	0.0	0	9.3	19	040 (NE)	680	85	3	1	
5	57	49	53	45	8	12	0	0.00	0.0	0	12.9	38	100 (E)	654	82	8	12	
6	56	50	53	45	8	12	0	0.04	0.0	0	15.7	33	130 (SE)	180	23	9	12	
7	56	50	53	45	8	12	0	0.02	0.0	0	9.5	26	180 (S)	476	60	8	12	
8	60	50	55	44	11	10	0	0.03	0.0	0	18.6	62	280 (W)	385	49	8	12	
9	58	48	53	44	9	12	0	0.00	0.0	0	44.4	77	290 (W)	40	5	9	12	
10	58	49	54	44	10	11	0	0.10	0.0	0	22.3	61	220 (SW)	308	40	8	12	
11	58	31	45	44	1	20	0	1.18	0.0	0	62.1	101	290 (W)	0	0	10	123	
12	44	31	38	43	-5	27	0	0.00	0.0	0	32.8	68	300 (NW)	774	100	3	126	
13	55	41	48	43	5	17	0	0.00	0.0	0	27.8	63	280 (W)	765	99	1	12	
14	50	32	41	42	-1	24	0	0.70	T	0	48.8	80	290 (W)	30	4	10	124	
15	45	34	40	42	-2	25	0	0.00	0.0	0	12.0	44	340 (N)	764	100	3	12	
16	49	35	42	42	0	23	0	0.00	0.0	0	16.8	37	280 (W)	709	93	5	12	
17	52	41	47	41	6	18	0	0.02	0.0	0	30.9	61	260 (W)	590	78	9	12	
18	52	48	50	41	9	15	0	0.35	0.0	0	36.0	75	260 (W)	15	2	10	12	
19	53	46	50	41	9	15	0	0.29	0.0	0	13.8	27	280 (W)	0	0	10	12	
20	56	46	51	40	11	14	0	0.00	0.0	0	31.6	76	300 (NW)	550	73	5	12	
21	49	40	45	40	5	20	0	0.00	0.0	0	47.3	75	300 (NW)	746	100	3	12	
22	55	42	49	39	10	16	0	0.01	0.0	0	37.0	63	250 (W)	540	73	6	12	
23	49	27	38	39	-1	27	0	0.63	0.0	0	41.3	83	280 (W)	105	14	9	126	
24	30	22	26	39	-13	39	0	0.00	0.0	0	40.4	82	330 (NW)	237	32	8	126	
25	28	22	25	38	-13	40	0	0.00	0.0	0*	45.7	75	350 (N)	10	1	10	126	
26	41	23	32	38	-6	33	0	0.02	0.0	0*	24.0	51	260 (W)	655	89	5	12	
27	44	37	41	37	4	24	0	0.84	0.0	0	21.0	52	260 (W)	410	56	6	12	
28	45	33	39	37	2	26	0	0.00	0.0	0	8.3	18	090 (E)	635	88	5	12	
29	49	38	44	36	8	21	0	0.00	0.0	0	12.2	22	080 (E)	696	96	5		
30	52	44	48	36	12	17	0	0.00	0.0	0	17.3	32	120 (SE)	240	33	9		
SUM	1509	1175	---	---	---	602	0	4.25	T	---	794.2	---	---	12226	---	208	---	
AVG	50.3	39.2	---	---	---	---	---	---	---	---	26.5	FASTEST	DIR	POSS	53%	6.9	---	
											MISC. ->	101	290 (W)	22883				

TEMPERATURE DATA (°F)		PRECIPITATION DATA (IN.)		WEATHER		SYMBOLS USED IN COLUMN 16	
AVERAGE MONTHLY	44.7	TOTAL FOR THE MONTH	4.25	NUMBER OF DAYS:		1 = FOG	
DEPARTURE FROM NORMAL	3.1	DEPARTURE FROM NORMAL	-3.78			2 = FOG REDUCING VISIBILITY	
HIGHEST	60 on 8th	24 HOUR MAX	1.28 on 10th/11th	CLEAR (SCALE 0-3)	5	TO 1/4 MILE OR LESS	
LOWEST	22 on 24th, 25th			PARTLY CLOUDY (SCALE 4-7)	8	3 = THUNDER	
NUMBER OF DAYS WITH:		SNOWFALL, ICE PELLETS (IN.)		CLOUDY (SCALE 8-10)	17	4 = ICE PELLETS	
						5 = HAIL	
MAX. 32 OR BELOW	2	TOTAL FOR THE MONTH	T	WITH .01" OR MORE PRECIP	14	6 = GLAZE OR RIME	
MAX. 90 OR ABOVE	0	24 HOUR MAX	T on 14th	WITH .10" OR MORE PRECIP	7	7 = BLOWING DUST OR SAND	
MIN. 32 OR BELOW	7	MAX DEPTH ON GROUND	N/A on N/A	WITH .50" OR MORE PRECIP	4	RED. VIS. TO 1/2 MILE OR LESS	
MIN. 0 OR BELOW	0			WITH 1.0" OR MORE PRECIP	1	8 = SMOKE OR HAZE	
		PRESSURE DATA (IN.)				9 = BLOWING SNOW	
						X = TORNADO	
HEATING DEGREE DAYS (BASE 65°F)		HIGHEST SEA-LEVEL	30.647 on 29th				
		LOWEST SEA-LEVEL	30.156 on 25th				
TOTAL THIS MONTH	602	AVG STATION	23.987				
DEPARTURE FROM NORMAL	-100						
SEASON TOTAL	1470						
DEPARTURE FROM NORMAL	-249						

NOTES:  
**11TH:** AVERAGE WIND SPEED CONTAINS 2 HOURS OF DATA DETERMINED FROM HAYS CHART DUE TO SERVER POWER FAILURE - RESULT OF A DIRECT LIGHTNING STRIKE TO THE BUILDING  
**14TH:** SNOWFALL ESTIMATED DUE TO MELTING PRIOR TO CAN COLLECTION  
**25TH, 26TH:** RIME ICE THICK ENOUGH TO CAUSE THE APPEARANCE OF A TRACE OF SNOW DEPTH

AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR				
0600	1200	1800	0000	MONTH
82	81	84	79	82

NOTE: PEAK GUST (COL. 11) ENTERED IN PLACE OF FASTEST MILE RECORDED FROM PITOT-STATIC TYPE ANEMOMETER. THERE WERE **286** HOURS OF PREVAILING WINDS FROM THE **W**, **40%** OF THE TOTAL HOURS OF THE MONTH.