

WS FORM F-6

PRELIMINARY LOCAL CLIMATOLOGICAL DATA

STATION

MOUNT WASHINGTON OBSERVATORY

MONTH

MARCH

YEAR

2024

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-7AM	AVG SPEED	FASTEST SPEED	FASTEST DIR	TOTAL	% POSS			
1	20	-17	2	9	-7	63	0	0.00	0.0	27	67.2	104	300 (NW)	5	1	10	1269	
2	31	20	26	9	17	39	0	0.25	1.8	26	35.5	73	240 (SW)	55	8	10	1269	
3	36	30	33	9	24	32	0	0.23	1.7	28	25.0	44	070 (E)	422	61	5	1269	
4	36	29	33	9	24	32	0	0.00	0.0	25	17.3	42	190 (S)	458	66	8	126	
5	39	30	35	10	25	30	0	0.40	0.0	24	33.7	57	250 (W)	75	11	10	126	
6	40	33	37	10	27	28	0	0.28	0.2	18	29.8	52	340 (N)	75	11	10	124	
7	33	18	26	10	16	39	0	0.98	5.7	16	37.7	76	050 (NE)	28	4	10	12469	
8	34	19	27	11	16	38	0	0.00	0.0	15	21.0	47	030 (NE)	691	98	3		
9	33	14	24	11	13	41	0	0.20	2.3	14	43.5	80	170 (S)	45	6	10	1269	
10	27	7	17	11	6	48	0	1.73	11.8	16	48.8	95	130 (SE)	95	13	10	12469	
11	8	1	5	11	-6	60	0	1.03	7.5	18	85.9	150	300 (NW)	0	0	10	1269	
12	15	2	9	12	-3	56	0	0.00	0.0	13	81.5	112	330 (NW)	530	74	5	1269	
13	30	14	22	12	10	43	0	T	T	12	31.0	79	330 (NW)	489	68	6	1	
14	31	25	28	12	16	37	0	0.10	0.8	11	22.0	48	280 (W)	70	10	10	126	
15	28	18	23	13	10	42	0	0.72	4.6	13	17.5	44	160 (S)	0	0	10	1269	
16	22	17	20	13	7	45	0	0.12	0.8	14	23.7	47	250 (W)	50	7	10	1269	
17	24	14	19	13	6	46	0	1.32	6.9	14	44.7	79	270 (W)	0	0	10	12369	
18	14	10	12	13	-1	53	0	0.72	5.8	16	46.6	73	260 (W)	0	0	10	1269	
19	11	3	7	14	-7	58	0	0.57	4.1	20	50.6	89	280 (W)	0	0	10	1269	
20	17	6	12	14	-2	53	0	0.39	4.4	20	31.9	79	270 (W)	80	11	10	1269	
21	6	-7	0	14	-14	65	0	0.40	3.9	22	74.8	117	270 (W)	0	0	10	1269	
22	7	-14	-3	15	-18	68	0	0.01	0.1	21	55.8	98	310 (NW)	634	85	8	1269	
23	25	5	15	15	0	50	0	1.79	17.4	23	36.2	74	310 (NW)	0	0	10	1269	
24	18	-2	8	15	-7	57	0	0.00	0.0	26	49.3	115	340 (N)	728	97	4	1269	
25	33	18	26	16	10	39	0	0.00	0.0	26	9.8	33	130 (SE)	719	95	8		
26	41	31	36	16	20	29	0	0.09	0.0	25	40.9	64	120 (SE)	0	0	10	12	
27	43	37	40	16	24	25	0	0.14	0.0	16	33.5	71	170 (S)	48	6	10	12	
28	37	28	33	16	17	32	0	0.25	1.7	2	11.3	41	260 (W)	0	0	10	126	
29	28	9	19	17	2	46	0	0.17	1.5	3	51.9	116	340 (N)	0	0	10	1269	
30	14	7	11	17	-6	54	0	0.00	0.0	3	72.0	125	320 (NW)	270	35	8	1269	
31	17	9	13	17	-4	52	0	0.03	0.3	3	55.2	74	270 (W)	252	33	9	1269	
SUM	798	414	----	----	----	1400	0	11.92	83.3	----	1285.6	----	----	5819	----	274	----	
AVG	25.7	13.4	----	----	----	----	----	----	----	----	41.5	FASTEST	DIR	POSS			----	
											MISC. ->	150	300 (NW)	22568	26%	8.8	----	

TEMPERATURE DATA (°F)

PRECIPITATION DATA (IN.)

WEATHER

SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY

19.5

TOTAL FOR THE MONTH

11.92

NUMBER OF DAYS:

DEPARTURE FROM NORMAL

6.6

DEPARTURE FROM NORMAL

5.20

HIGHEST

43 on 27th

24 HOUR MAX

1.79 on 23rd

CLEAR (SCALE 0-3)

1

LOWEST

-17 on 1st

PARTLY CLOUDY (SCALE 4-7)

4

SNOWFALL, ICE PELLETS (IN.)

CLOUDY (SCALE 8-10)

26

NUMBER OF DAYS WITH:

TOTAL FOR THE MONTH

83.3

WITH .01" OR MORE PRECIP

23

MAX. 32 OR BELOW

20

24 HOUR MAX

17.4 on 23rd

WITH .10" OR MORE PRECIP

20

MAX. 90 OR ABOVE

0

MAX DEPTH ON GROUND

28 on 3rd

WITH .50" OR MORE PRECIP

8

MIN. 32 OR BELOW

29

WITH 1.0" OR MORE PRECIP

4

MIN. 0 OR BELOW

4

PRESSURE DATA (IN.)

HEATING DEGREE DAYS (BASE 65°F)

HIGHEST SEA-LEVEL

30.482 on 4th

LOWEST SEA-LEVEL

29.137 on 11th

TOTAL THIS MONTH

1400

AVG STATION

23.580

DEPARTURE FROM NORMAL

-217

SEASON TOTAL

9782

DEPARTURE FROM NORMAL

-976

COOLING DEGREE DAYS (BASE 65°F)

TOTAL THIS MONTH

0

DEPARTURE FROM NORMAL

0

SEASON TOTAL

0

DEPARTURE FROM NORMAL

0

NOTES:

6TH: NEW DAILY RECORD HIGH OF 40°F; PREVIOUS RECORD OF 39°F ORIGINALLY SET IN 2022

6TH/7TH: SNOWFALL ESTIMATED AT ONE COLLECTION DUE TO PARTIAL MELTING PRIOR TO COLLECTION

10TH: SNOWFALL ESTIMATED AT ONE COLLECTION DUE TO COMPACTION FROM WET SNOW

11TH, 12TH, 18TH, 20TH, 21ST: PEAK WIND DIRECTION ESTIMATED DUE TO ICING ON FT TECH CAUSING IT TO REPORT INCORRECTLY

11TH: PRECIPITATION AND SNOWFALL ESTIMATED AT ONE COLLECTION DUE TO COMPACTION FROM IN CAN FROM HIGH WINDS AND BLOWING SNOW AND AT THREE COLLECTIONS DUE TO UNREALISTICALLY HIGH AMOUNT IN CAN DUE TO BLOWING SNOW.

13TH, 22ND: PEAK WIND DIRECTION ESTIMATED DUE TO FT TECH NOT ALIGNED WITH TRUE NORTH

15TH, 16TH: SNOWFALL PARTIALLY ESTIMATED AT ONE COLLECTION DUE TO COMPACTION PRIOR TO COLLECTION

17TH: PRECIPITATION AND SNOWFALL ESTIMATED AT ONE COLLECTION DUE TO COMPACTION AND UNREALSTICALLY LOW AMOUNT IN CAN DUE TO WINDS INHIBITING SNOW ACCUMULATION IN CAN

18TH: PRECIPITATION ESTIMATED AT ONE COLLECTION DUE TO RIME CHUNKS FALLING IN CAN AND RIMING IN CAN PRIOR TO COLLECTION

21ST: PRECIPITATION AND SNOWFALL ESTIMATED AT TWO COLLECTIONS DUE TO UNREALISTICALLY HIGH AMOUNT IN CAN DUE TO BLOWING SNOW

23RD: PRECIPITATION AND SNOWFALL ESTIMATED AT TWO COLLECTIONS DUE TO UNREALISTICALLY LOW AMOUNT IN CAN DUE TO HIGH WINDS

27TH: PRECIPITATION ESTIMATED AT ONE COLLECTION DUE TO EVAPORATION PRIOR TO COLLECTION

30TH: PEAK WIND DIRECTION ESTIMATED DUE TO FT TECH BEING MISALIGNED AND ICING ON INSTRUMENT CAUSING IT TO REPORT INCORRECTLY

AVG RELATIVE HUMIDITY FOR EACH SYNOPTIC HOUR

0600

1200

1800

0000

MONTH

86

86

86

83

85

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

THERE WERE 225 HOURS OF PREVAILING WINDS FROM THE W,

26% OF THE TOTAL HOURS OF THE MONTH.