Page 1 ROCKVILLE 2.8 WNW MARYLAND - COCORAHS STATION, MD - MG - 115																				
OBS. 2400 ET		July	2018	Elevati	on. 450) FT L	.atitude	39.09	°N L	ongitu	de 77.2	20° W S	MOITAT	IID M	D-MG-1	15 (co	corahs)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
JUL	WEEK		TEMPERATURE °F			DEGREE DAYS		DEW POINT		PRECIPITATION		FROZEN PRECIP.		SKY	BAROMETRIC PRESSURE					
2018	DAY	MAX.	TIME	MIN.	TIME	2400	RANGE	MEAN	Heating	Cooling	MAX.	MIN.	2400	Est. Start	NEW	ON YARD	COVER	MAX.	MIN.	AVE.
Jul-01	Sun	95	17:21	71	6:25	78.7	23.7	83.0	0.0	18.0	77	67					0	30.10	30.01	30.06
Jul-02	Mon	96	13:57	75	22:22	82.7	21.2	85.2	0.0	20.2	80	71					0	30.10	30.01	30.06
Jul-03	Tue	96	15:35	77	6:15	81.1	19.1	86.2	0.0	21.2	80	69	0.02	1710			1	30.21	30.09	30.15
Jul-04	Wed	92	18:19	75	4:03	80.9	16.5	83.5	0.0	18.5	79	71					1	30.28	30.20	30.24
Jul-05	Thu	91	16:40	77	6:16	80.7	14.4	83.7	0.0	18.7	78	71					1	30.30	30.15	30.23
Jul-06	Fri	85	16:41	76	6:07	76.5	8.5	80.5	0.0	15.5	76	62	Т	1300			2	30.17	30.06	30.12
Jul-07	Sat	79	16:59	64	23:54	67.9	15.3	71.5	0.0	6.4	62	51					0	30.35	30.16	30.26
Jul-08	Sun	83	18:34	60	2:44	67.0	23.3	71.2	0.0	6.2	59	49					0	30.39	30.29	30.34
Jul-09	Mon	87	18:26	59	5:22	72.8	28.3	73.2	0.0	8.2	65	52					0	30.30	30.10	30.20
Jul-10	Tue	93	16:40	67	5:15	78.9	26.2	79.6	0.0	14.6	71	61					0	30.10	29.90	30.00
Jul-11	Wed	90	16:59	72	5:48	77.7	17.3	80.9	0.0	15.9	68	59					1	30.06	29.89	29.98
Jul-12	Thu	89	15:47	69	7:20	74.0	19.7	78.8	0.0	13.8	66	53					0	30.21	30.06	30.14
Jul-13	Fri	86	18:00	67	5:49	73.2	19.6	76.5	0.0	11.5	67	60					1	30.25	30.16	30.21
Jul-14	Sat	88	18:32	66	6:11	76.4	21.3	77.1	0.0	12.1	67	58					1	30.20	30.05	30.13
Jul-15	Sun	86	18:31	72	6:28	73.7	14.7	78.9	0.0	13.9	75	60	0.08	800			1	30.08	29.98	30.03
Jul-16	Mon	93	18:27	69	6:06	75.8	24.1	81.3	0.0	16.3	75	68	0.05	1700			1	30.02	29.91	29.97
Jul-17	Tue	86	18:34	69	2:58	69.1	16.4	77.4	0.0	12.4	77	67	0.97	1400			1	29.94	29.78	29.86
Jul-18	Wed	85	18:31	64	6:15	71.0	20.5	74.6	0.0	9.6	68	56					1	30.01	29.88	29.95
Jul-19	Thu	85	15:12	67	5:57	72.8	18.4	76.1	0.0	11.1	63	55					1	30.12	30.01	30.07
Jul-20	Fri	84	17:01	66	22:56	73.6	18.9	75.0	0.0	10.0	69	58					1	30.14	30.03	30.09
Jul-21	Sat	74	14:56	64	6:13	64.5	9.9	68.7	0.0	3.7	69	63	4.02	1045			2	30.04	29.67	29.86
Jul-22	Sun	77	17:04	61	23:52	71.5	16.0	69.3	0.0	4.3	73	61	0.22	cont			2	29.91	29.66	29.79
Jul-23	Mon	82	18:31	72	1:04	75.0	10.6	76.8	0.0	11.8	75	70	0.95	cont			2	30.04	29.86	29.95
Jul-24	Tue	79	18:27	73	6:15	73.5	5.8	75.7	0.0	10.7	76	72	0.93	610			2	30.07	29.99	30.03
Jul-25	Wed	82	16:23	71	7:50	71.7	10.9	76.8	0.0	11.8	75	70	0.31	1815			2	29.99	29.86	29.93
Jul-26	Thu	87	18:37	69	6:14	75.7	17.7	77.8	0.0	12.8	74	66					0	29.99	29.86	29.93
Jul-27	Fri	89	13:36	69	1:22	69.2	20.0	79.2	0.0	14.2	76	66	0.16	1545			1	30.03	29.92	29.98
Jul-28	Sat	85	16:18	69	5:17	71.7	16.4	76.8	0.0	11.8	69	61					1	30.08	29.98	30.03
Jul-29	Sun	84	18:37	66	6:38	72.8	17.9	75.3	0.0	10.3	68	60					1	30.14	30.08	30.11

7.8

9.8

382

31

12.33

21.2

7-03

3.7

7-21

0.0

0.0

0

31

0.00

0.0

0.0

71

74

2222

31

71.68

80

7-02

7-03

59

7-08

Total for year =

64

69

1940

31

62.58

72

7-24

49

7-08

0.39

0.04

8.14

12

1

4.02

7-21

(V) shows multiday

amounts. no day

split available

30.41

1400

2330

Days>=1.00

Inches

0.0

0

0

0.0

CLEAR DAYS

PARTLY CLO.

CLOUDY

Max.

Days

Min.

Days

2

2

31

31

1.00

0 = Clear

1= Pt.Clo.

2 = Clo.

8

15

8

>=90

8

<=70

20

0.0

0

0

0.0

>=95

3

<=75

28

30.14

30.13

934

31

30.13

30.39

7-08

29.91

7-22

>=85

20

<=65

6

30.10

30.08

932

31

30.06

30.34

7-08

29.79

7-22

>=75

30

<=55

30.06

30.03

930

31

29.99

30.29

7-08

29.66

7-22

>=80

26

<=60

2

77

80

2663

31

85.90

96

7-02

7-03

74

7-21

Mon

Tue

Jul-30

Jul-31

TOTAL

NUMBER

AVERAGE

MAXIMUM

DATE OF MAX

Second Date

MINIMUM

DATE OF MIN.

Second Date

Days Max>=90°

Days Max<=32°

18:38

17:09

31

0.00

69

69

2132

31

68.76

77

7-03

7-05

59

7-09

11

6:31

4:44

31

0.00

Days Min>=70°

Days Min<=32°

69.3

73.7

2293

31

73.97

82.7

7-02

64.5

7-21

7.8

10.9

531

31

17.14

28.3

7-09

5.8

7-24

72.8

74.9

2397

31

77.33

86.2

7-03

68.7

7-21

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PAGE 2 OBS. 2400 ET			July							MAR e 39.09		D - COCORAHS STATION, MD - MG - 115 ongitude 77.20° W STATION ID MD-MG-115 (cocorahs)				
22	23	24	25	26	27	28	29	30	31	32	33	34				
JUL	WEEK	REL. HU	JMIDITY	DAILY			NUMBER	OF DAYS	F DAYS		Major Clo.	July - 2018				
2018	Day	MAX.	MIN.	AVE	Windy	SNOW	SLEET	GLAZE	FOG	THUNDER	TYPE/s	DAILY REMARKS				
Jul-01	Sun	93	42	67.5								Sunny, hot, humid. Max heat index temp 108° @ 1638				
Jul-02	Mon	96	46	71.0								Sunny, hot, humid. Max heat index temp 110° @ 1525				
Jul-03	Tue	86	55	70.5						1	CU, CB	Partly cloudy, hot, humid Thundershower 1719-1730. Max heat index temp 113I.4° @ 1450				
Jul-04	Wed	94	55	74.5							CU, CU+	Partly sunny, hot, humid Max heat index temp 104.6° @ 1255				
Jul-05	Thu	91	60	75.5							CU, CU+	Partly sunny, hot, humid. Max heat index temp 107° @ 1322				
Jul-06	Fri	92	53	72.5						1	CU,SC,CB	Mostly cloudy, cooler, still humid - sprinkles mid-day. Clearing evening. Max heat index temp 92				
Jul-07	Sat	70	39	54.5							AS	Early AM clouds, mostly sunny rest of day, cooler, less humid, pleasant day.				
11.00	e	0.0	22	60.0								Construction of the contract o				

91

96

98

98

97

97

97

96

95

87

95

97

2831

31

91.32

98

7-22

7-23

70

7-07

>=65

31

<=45

0

Fri

Sat

Sun

Mon

Tue

Wed

Thu

Fri

Sat

Sun

Mon

Tue

>=70

31

<=50

Jul-20

Jul-21

Jul-22

Jul-23

Jul-24

Jul-25

Jul-26

Jul-27

Jul-28

Jul-29

Jul-30

Jul-31

TOTAL

NUMBER

AVERAGE

MAXIMUM

DATE OF MAX

Second Date

MINIMUM

DATE OF MIN.

Second Date

Max.

Days

Min.

Days

49

76

79

76

89

77

53

50

46

48

73

83

1676

31

54.06

89

7-24

32

7-08

7-09

>=60

31

<=40

0

70.0

86.0

88.5

87.0

93.0

87.0

75.0

73.0

70.5

67.5

84.0

90.0

2254

31

72.69

93

07-24

54.5

7-07

>=55

31

<=35

1

1

1

4

>=50

31

<=32

0

0

Snow

0

0

Glaze

92.4° @ 1715 Jul-08 Sun 88 32 60.0 Sunny, pleasant though a tad warmer, still dry with low dew points and very little clouds. 32 Jul-09 Mon 92 62.0 Sunny, still pleasant though a bit warmer, dry, dew points starting to rise. 89 44 66.5 Jul-10 Tue CU Mostly sunny, hot, more humid - some cumulus later in the afternoon from storms in PA Jul-11 Wed 83 42 62.5 Mostly sunny, not as hot, less humid - fair weather cumulus afternoon - weak frontal passage CU 74 36 55.0 Jul-12 Thu CU Mostly sunny, less hot, moderately humid - fair weather cumulus at times in the afternoon. 92 43 67.5 Jul-13 Fri Partly sunny, moderately hot and humid Went into hospital for a leg infection late/early Sat morning CU Jul-14 Sat 83 42 62.5 CU Partly sunny, a bit less hot, humid - Still in hospital all day with leg infection 91 59 75.0 Jul-15 Sun CU Partly sunny, AM showers measured by substitute observer, humid-still in hospital with leg infection 52 73.5 Jul-16 Mon 95 CU Partly sunny, warm, humid, discharged from hospital mid-afternoon - late afternoon showers Jul-17 Tue 96 66 81.0 1 1 CU, CB, CU+ Partly cloudy, warm, humid. Mid afternoon heavy thunderstorm 1400-1500. Max rain rate 11.52"/hr @ 1416 Jul-18 Wed 95 39 67.0 CU Partly cloudy, warm, humid, but dry Jul-19 Thu 87 40 63.5 CU Partly cloudy, warm, humid, still dry but not for long

CU

SC,NS,CU

SC,NS,CU

SC,NS,CU

SC,NS,CU

SC,NS,CU

CU

CU, SC

CU

CU

NS, SC

NS, SC

1

1

1

1

5

Fog

1

1

1

7

Partly cloudy, warm, humid but still dry but rain coming soon.

Cloudy, still relatively cool, wet Max rain rate 0.58"/hr @ 2129

Mostly sunny, not quite so humid, drying out some, warm

Partly to mostly sunny, warm, less humid

Cloudy, a bit warmer, rainy, particularly early AM. Max rain rate 4.27"/hr @ 0121

Partly cloudy, moderately humid, warm. Not too bad for my 68th birthday

Cloudy, warmer, rain 0610-1045, heavier rain 0610-0700 Max rain rate 2.27" @ 0620

Cloudy, flooding rains all day 1045-2350. Cool, moderate to strong NE winds. Heaviest rain 2050-2200

Mostly cloudy, evening light showers/thundershowers Max rain rate 0.19"/hr @ 1834 Rain 1815-2245

Clear AM, becoming cloudy aft with light shower mid-aft Max rain rate 2.47"/hr @ 1548 Rain 1545-1600

Cloudy, cooler, afternoon showers. Max rain rate 0.71"/hr @ 1740 VP2 down from 2230 Mon-1500 Tue

Cloudy, warm/damp, late evening showers. VP2 down from 2230 Mon-1500 Tue- estimate was needed

July - 2018

Monthly Summary

July 2018 was a tale of two distinct, different patterns. The first 16 days of the month was hot and dry (all 8 days

of 90 maxs or higher, only 0.15" of rain) while the last 15 days of the month were cooler and very wet (over 98%

of the month's total rainfall, 3 days with maxs in the 70s, none in the nineties). The highlight was the 4.02" of rain

that fell on the 21st, the wettest day of the month, year, and of my brief station's history. That kicked off a 5 day

big hot spell during the 1st half of the month was highlighted by the heat wave streak the first 5 days of the month

topped off by the 95.8° high on the second, hottest reading of the month. The minimums were high most of the

month, with 11 days of 70 or greater lows. The rainy period towards the end of the month also had some, with

low diurnal ranges, topped off with the 5.8° range on the 24th (78.6° - 72.8°). There were 15 partly cloudy days

during the month, along with 8 sunny and 8 cloudy days. 12 days of measurable rain was pretty close to the

normal amount for July. An incredibly diverse month with Mother Nature turning her "faucet" off then on.

streak of heavy rains totaling 6.43" that led to area-wide flooding and very soggy trips to the rain gauge. The