



<http://www.jhuapl.edu/weather/education/ACONdata.html>

ATLANTIC COAST OBSERVER NETWORK, MD / DE / DC CHAPTER WITH DATA FROM NEARBY AREAS

MID MONTH HEAT WAVE FEWER THUNDERSTORMS THAN IN JUNE

July's temperatures averaged above normal but as for Julys go it could have been much worse. Several observers remarked that this was an uneventful month. Precipitation, which fell on around a dozen days, was quite variable but overall averaged slightly below normal. No tropical systems affected the region. Most of the rainfall came via thunderstorms, a few with hail. The most widespread thunderstorm outbreak occurred on the 23rd.

The month began with pleasant temperatures and humidity. The first 90 degree temperatures occurred on the 3rd. The 4th of July Holiday was cloudy with showers and a few thundershowers.

Warm humid conditions along with some showers occurred from the 4th to the 9th. Daily amounts were generally less than a quarter of an inch. On the 6th thunderstorms dumped 2 3/4" in portions of Sussex County Delaware. One inch plus amounts also fell on the 5th at **Hagerstown 1E** and on the 6th at **Laurel JHU/APL**, and **Ridge**.

Showers and thunderstorms on the 13th and 14th were the heaviest in central Maryland. In Carroll County **Greg Klein** of **Westminster 5 SSE** reported 2.24" and **Ralph Hartsock** of **Westminster 4 SSE** 2.23".

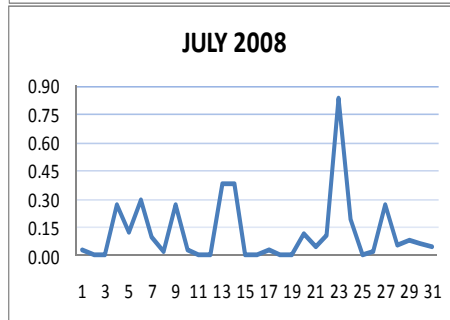
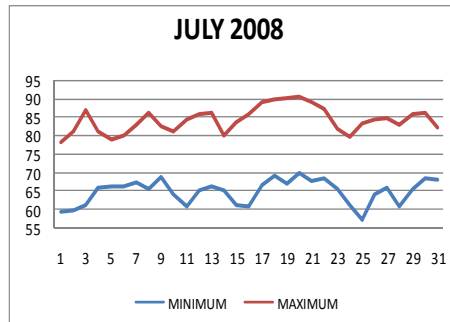
The month's only heat wave occurred from the 16th to the 22nd. Maximum temperatures were generally in the lower to middle 90's. The maximum of 97° was reported by **David Roth** of **Montgomery Village 1SW** and at **Jug Bay Wetlands**. Minimum temperatures were generally in the lower 70's in urban areas and in the upper 60's in rural areas.

The heaviest thunderstorms of the month occurred on the 23rd into the morning of the 24th. Two inch plus amounts were common in portions of New Castle County Delaware, and in Anne Arundel, St. Marys, and Washington Counties in Maryland. **John Zyla** of **Ridge** reported 3.14", **Gary Gallaher** of **Bear 2 SW DE**, 2.62",

Jeff Stoudt of **Laurel 2 E** 2.29", **Jim Vaughn** of **Smithsburg 2 NE** 2.08" with 3/4" hail, and **Max Hutto** of **Smithsburg 1.5 SW** 2.06". **Brian Smith** of Oxon Hill reported 3.26" from the 21st to the 24th while he was away.

A welcome break from the humidity and heat which moved in during the day of the 24th brought with it the coolest temperatures of the month the morning of the 25th at many locations.

Thunderstorms returned on the 26th, 27th and the 30th. **Greg Keefer** of **Hagerstown 1 E** reported pea size hail the evening of the 26th. On the 27th **Jeff Stoudt** of **Laurel 1 E** reported pea size hail and **Gary Gallaher** of **Bear 2 SW DE** 3/4" hail. Nate Mullins of LaVale reported a possible tornado in Garrett County on the 30th.



ACON MD/DE Network

Daily average temperatures and precipitation based on observation times, not calendar days.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Montgomery Village 1 SW	97
Jug Bay Wetlands	97
Newark DEOS, DE	96
Baltimore 2 SE	96
Glenmont 1 NNE	96

MINIMUM TEMPERATURE

Davis 3 SE, WV	49
Eagle Rock	52
Frostburg	53

WARMEST AVG. TEMP.

Baltimore 3 SE	80.8
Montgomery Village 1 SW	79.1
Oxon Hill	78.5

COLDEST AVG. TEMP.

Davis 3 SE, WV	64.5
Frostburg	68.9
Eagle Rock	70.3

MAXIMUM PRECIPITATION

Ridge	6.09
Hagerstown 1 E	5.81
Bear 2 SW, DE	5.75

MINIMUM PRECIPITATION

Glenmont 1 NNE	2.18
Potomac 4 N	2.30
Norbeck 1 S	2.50

NEW MEMBER

Ron Berger of **Norbeck 1 S**, near Silver Spring in Montgomery County, has joined the network. Ron is also a member of Brian Smith's WBCR network. Lets all welcome him.

OBSERVER COMMENTS FOR JULY 2008

Gary Gallaher of Bear 2 SW, DE

Yards browned during the first three weeks. They began to green up after the rains of the 20th.

23rd - Heavy thunderstorms midnight to 3 AM and again 6 PM to 9 PM. During the evening severe storm lightning struck a chimney 8 houses south of me. It also damaged the electronics in two of my anemometers.

27th - 3/4" hail 2:22PM to 2:28 PM. No damage occurred.

Nate Mullins of LaVale

30th - A tornado warning was issued for the SW part of the county from a severe cell that produced several funnel clouds in southwest PA and a possible tornado in nearby Garrett Co. MD in the Friendsville and Accident areas. Although no major damage was reported in Allegany Co., a funnel cloud was sighted again just south of Fort Ashby, WV to our south. On a side note, the 0.69" of rain today continued the trend of wet July 30th's. From 1992-2008, July 30 has statistically been the wettest day of the year with an average of 0.45".

Jeff Stoudt of Laurel 2 E

27th - A midday storm brought hail pea- to penny-size, gusts near damaging force, vivid lightning, and loud-booming thunder but only a moderate amount of rain (0.39) as only this storm cell's southern edge clipped this neighborhood.

Marty Sharrow of Owings Mills

8th - Sun, scattered afternoon clouds, hot, humid.

23rd - Lots of clouds, humid, afternoon storms.

Joe Manfre of Baltimore 2SE

1st - Partly cloudy, warm, pleasant humidity.

9th - PM showers and thunderstorms.

30th - Hot, humid, thunder and lightning.

Ralph Hartsock of Westminster 4 SSE

9th - PM heavy thunderstorm.

14th - Heavy overnight soaking rain.

Bobby Miller of Millers 4 NE

Near normal temperatures and precipitation with no extremes in weather. Generally good growing conditions.

27th - Heavy afternoon thundershower.

Ray Muller of Westminster City

6th - Dense fog, visibility 1/4 mile.

Marty Brumback of Bryans Road 2 ESE

My hopes came true! July temperatures were, mercifully, cooler than average at this station! A 7-day heat wave occurred, however, from July 16-22 when the maximum temps did not drop below 91°. On the other hand, they did not go above 95°, so I will call it the "virtual" heat wave of July 2008. Precipitation was slightly (0.32") below average but the frequency of rainfall was high: precipitation fell on 15 of 31 days.

Eric Glass of Emmitsburg 2 SE

9th - Heavy low clouds, humid and warmer.

16th - Clear, bright, sunny and cool. Light winds.

Rebecca Harvey of Eagle Rock

10 days with thunder.

Rich Giannola of JHU/APL

9th - -SHRA -7:00AM = T. TSRA in early evening = 0.37". Peak wind gust = 41 mph from WSW at 6:31PM.

Rob Cohen of Potomac 4 N

An unremarkable month. Temperature was zero departure from my long term normal, precipitation down 1.5". No severe weather.

Rich Giannola of Olney 1 S

23rd-24th - Pre-dawn -SHRA on 23rd = 0.01". Mid-afternoon -SHRA = 0.01". TS began 8:15PM. TSRA began 8:50PM. -SHRA = 0.01". Rain = 0.03" more by 9:40PM. SHRA continued into 24th and ended by dawn = 0.51" more. Morning FG on 24th.

Kevin Shaw of Gaithersburg 2 WNW

Month was drier (-1.77") and warmer (+1.7°) from normal. It was not a month of extremes. A hot period mid month with 7 straight days of 90° or higher.

4th - Mostly cloudy, rain showers late afternoon, early evening.

Joe Terry of Forest Glen

22nd - Surprise late AM thunderstorm with brief heavy rain. Nice mammatus overhead at around 1100 after storm had passed.

27th - Two afternoon thunderstorms with quite a bit of thunder and lightning. Very large raindrops but never had a heavy rate of rainfall. 0.23 from early afternoon storm and 0.08 from late afternoon storm.

Brian Smith of Oxon Hill

19th - MMTS installed this afternoon. Cotton shelter temps will be backup.

Floyd Abell of Hollywood

7th - Thunderstorm before dawn.

23rd - Late day and evening thunderstorms, heavy rain.

27th - Afternoon thunderstorm, heavy rain.

John Zyla of Ridge

23rd - Thunderstorm 5:27-8:15 PM. 1.79" hail at 5:53PM.

Max Hutto of Smithsburg 1.5 SW

9th - Intermittent AM / PM showers, windy.

29th - AM haze, clearing to mostly sunny, very warm.

Greg Keefer of Hagerstown 1 E

26th - Thunderstorm around 5 PM with 0.67" of rain and briefly some pea sized hail. Some wind damage on west side of town.

Jim Vaughn of Smithsburg 2 NE

23rd - Thunderstorms, 2.08" broke the old daily record of 1.44" in 1988, peak wind gust 57 MPH, 3/4" hail

Lance Shaffer of Sterling 4 N VA

6th - Sun, muggy, good steady rain at 8:15 PM.

28th - Nice cool start to the day.

Compiled by Gary Gallaher, MD/DE ACON Data Collector and Report Writer, from data received from dedicated observers. Without your observations each month this report will not be possible.

ACON MD /DE / DC
JULY 2008 SUMMARY

OBSERVER	STATION COUNTY, STATE	TEMPERATURE									PEAK WIND			PRECIPITATION					SNOWFALL				OBS TIME		
		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON
<i><u>New Castle, Delaware</u></i>																									
Gallagher, Gary	Bear 2 SW	87.4	65.8	76.6	94	19+	58	25	9	0	0	43	NNW	20	5.75	2.47	23	26.22	10	2	0.0	0.0	0.0	2400	
NWS Wilmington	New Castle Co. Apt.	88.2	67.9	78.1	96	18+	61	25	10	0	0	47	WSW	23	4.69	2.57	23	24.38	9	1	0.0	0.0	0.0	2400	
U of DE DEOS***	UofD AG Farm Newark, DE	87.8	66.5	77.2	96	19	59	25	10	0	0	22		20	4.05	1.21	20	24.49	9	1				2400	
U of D REC DEOS***	Townsend 4 W	85.7	66.1	75.9	92	17+	59	25	4	0	0	28		9	1.89	0.32	4	22.00	8	0				2400	
<i><u>Sussex, Delaware</u></i>																									
NWS Georgetown	Sussex Co. Airport	88.0	68.0	78.0	94	22+	61	26	11	0	0	31	W	8	4.44	2.79	6	22.22	9	1				2400	
U of D REC DEOS***	Georgetown	86.7	67.2	77.0	92	17+	60	26	8	0	0	26		8	4.43	2.78	6	22.67	8	1				2400	
U of D REC DEOS***	Harbeson 8 S	86.2	65.8	76.0	94	22	58	26	8	0	0	26		8	3.12	1.22	6	19.62	9	1				2400	
<i><u>Allegany, Maryland</u></i>																									
Latta, Greg	Frostburg	79.0	58.7	68.9	86	19+	53	2+	0	0	0				3.34	0.60	22	32.26	11	0	0.0	0.0	0.0	0700	
Mullins, Nate**	LaVale	83.1	64.4	73.8	94	20	55	2+	4	0	0				3.29	0.75	4	27.54	12	0	0.0	0.0	0.0	2400	
<i><u>Anne Arundel, Maryland</u></i>																									
Hanson, Dan	Pasadena 2 N	88.3	67.2	77.8	94	17+	59	2	9	0	0	27	S	23	3.86	1.34	23	23.81	11	1	0.0	0.0	0.0	2400	
Jug Bay Wetlands	Lothian	88.6	66.3	77.5	97	22	59	25	14	0	0				3.94	0.97	14	36.66	11	0	0.0	0.0	0.0	0900	
NWS Baltimore	BWI Airport	87.7	67.2	77.5	94	20	59	25	10	0	0	32	SSE	23	5.47	2.42	23	29.20	11	1	0.0	0.0	0.0	2400	
Stoudt, Jeff	Laurel 2 E	86.8	69.5	78.2	94	19	62	25	10	0	0				5.53	2.28	23	30.79	10	2	0.0	0.0	0.0	2400	
<i><u>Baltimore, Maryland</u></i>																									
Sharrow, Marty	Owings Mills 2 SE	87.1	65.9	76.5	94	18+	58	25	13	0	0				2.94	0.79	30	21.22	10	0	0.0	0.0	0.0	2400	
<i><u>Baltimore City, Maryland</u></i>																									
Manfre, Joe	Baltimore 2 SE	89.4	72.1	80.8	96	18+	66	1+	13	0	0				5.11	1.66	23	26.03	12	1	0.0	0.0	0.0	1800	
Maryland Science Ctr	Baltimore Inner Harbor	89.0	72.1	80.6	95	18+	65	1	12	0	0				5.13	1.66	23	25.04	12	1				2400	
<i><u>Carroll, Maryland</u></i>																									
Close Jr, Herb	Manchester 1 SW	85.1	66.1	75.6	92	17+	58	1	5	0	0				3.71	0.89	14	25.95	15	0	0.0	0.0	0.0	2300	
Hartsock, Ralph	Westminster 4 SSE	87.0	64.2	75.6	93	19+	57	3+	9	0	0				4.21	1.35	14	29.54	8	1	0.0	0.0	0.0	1900	
Klein, Greg	Westminster 5 SSE	82.6	64.4	73.5	89	20	58	24	0	0	0				4.56	1.16	13	29.27	7	2	0.0	0.0	0.0	2200	
Miller, Bobby	Millers 4 NE	84.2	63.5	73.9	90	19+	54	25	2	0	0	33	W	27	3.68	1.06	14	30.18	9	1	0.0	0.0	0.0	1800	
Muller, Ray	Westminster City	85.8	66.2	76.0	92	19+	58	25	5	0	0	42	W	9	3.65	0.80	13	26.99	12	0	0.0	0.0	0.0	1900	
<i><u>Charles, Maryland</u></i>																									
Brumback, Marty	Bryans Road 2 ESE	88.9	67.2	78.1	95	18+	60	1	14	0	0	38		22	3.34	0.80	14	32.70	14	0	0.0	0.0	0.0	2400	
<i><u>Frederick, Maryland</u></i>																									
Glass, Eric	Emmitsburg 2 SE	84.5	62.9	73.7	91	20+	56	25	4	0	0				2.77	0.98	14	24.18	11	0	0.0	0.0	0.0	0630	
Lawrence, Bryon	Frederick 3 WNW	STATION CLOSED MAY 2008																14.02							2300
<i><u>Garrett, Maryland</u></i>																									
Harvey, Rebecca	Eagle Rock	80.2	60.4	70.3	89	18+	52	1	0	0	0				4.74	1.17	21	40.31	9	2	0.0	0.0	0.0	0800	

**ACON MD / DE / DC
JULY 2008 DAILY TEMPERATURES**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	OBS TIME
BEAR 2 SW, DE GALLAHER	84 64	85 61	91 61	84 66	84 68	83 70	89 72	90 70	86 70	83 66	88 61	88 65	85 64	83 67	89 62	90 60	93 62	93 69	94 67	94 74	90 70	90 72	88 69	82 62	86 58	86 62	87 65	85 60	88 64	87 68	84 70	87.4 65.8	2400 EDT
WILMINGTON , DE NWS NEW CASTLE CO APT	85 64	87 64	92 64	84 68	81 69	83 71	89 73	91 72	87 70	85 68	89 62	89 66	87 65	84 66	90 64	93 62	94 66	96 71	95 71	91 73	91 72	91 73	85 68	82 65	87 61	87 66	86 65	86 62	89 68	87 70	86 72	88.2 67.9	2400 EST
NEWARK AG FARM, DE U OF DE DEOS	83 63	85 63	91 63	82 68	84 68	84 70	89 72	90 70	86 70	83 68	88 62	90 66	87 65	82 66	88 64	90 62	94 65	95 70	96 68	95 72	88 69	85 72	83 70	88 64	88 59	88 63	87 65	87 61	89 66	90 68	85 71	87.8 66.5	2400 EDT
TOWNSEND 4 W, DE U of D REC DEOS	81 63	83 62	89 67	82 66	82 67	80 69	85 71	87 69	83 70	81 66	86 63	88 65	87 66	81 66	87 63	92 60	91 63	91 69	92 75	89 71	89 72	86 69	80 64	85 59	85 64	85 64	84 61	88 65	87 67	82 69	85.7 66.1	2400 EDT	
GEORGETOWN, DE NWS SUSSEX CO APT	84 65	86 64	93 66	90 69	82 70	82 69	87 71	89 71	83 71	85 67	86 64	87 64	85 68	87 64	88 68	90 63	93 64	93 68	92 70	94 75	94 74	94 72	85 67	83 64	87 61	87 68	87 65	88 74	89 73	86 74	88.0 68.0	2400 EST	
GEORGETOWN, DE U of D REC DEOS	82 65	85 63	88 66	88 68	81 69	82 70	85 71	87 70	80 70	84 67	88 62	87 64	87 63	77 70	86 65	88 61	92 62	92 67	90 69	92 75	91 73	92 73	91 72	82 65	86 62	86 60	88 67	86 64	87 64	91 74	86 73	86.7 67.2	2400 EDT
HARBESON 8 S, DE U of D REC DEOS	84 62	85 62	91 64	89 68	81 68	81 67	85 69	88 69	80 65	82 65	84 62	85 61	85 62	78 63	85 59	90 65	93 60	92 65	93 74	91 72	94 70	91 64	82 61	85 58	86 61	86 58	89 64	85 64	87 64	85 73	84 69	86.2 65.8	2400 EDT
FROSTBURG LATTA	74 56	68 53	77 53	80 60	67 62	73 62	74 62	78 60	84 64	75 58	76 55	79 56	85 62	80 56	75 57	79 54	83 57	85 61	85 62	86 60	82 61	80 63	77 62	74 58	81 55	82 56	77 60	77 56	81 56	82 61	83 62	79.0 58.7	0700 EDT
LAVALE MULLINS**	70 59	80 55	82 55	69 67	81 67	80 68	82 69	88 67	80 71	80 65	83 58	88 65	83 73	80 67	85 58	88 58	91 63	93 67	93 67	94 64	88 68	83 66	74 67	74 60	83 59	85 63	83 67	83 61	87 67	84 65	83 70	83.1 64.4	2400 EDT
PASADENA 2 N HANSON	84 60	87 59	93 66	87 70	83 68	84 70	86 68	90 71	87 68	85 72	87 67	89 62	87 67	83 71	89 64	91 62	94 64	94 70	94 75	94 70	91 69	91 70	88 64	85 60	88 69	87 69	89 63	87 68	89 71	89 72	86 67.2	2400 EDT	
LOTHIAN JUG BAY	82 60	87 61	86 61	92 67	90 66	83 70	86 65	87 69	90 70	86 63	85 67	91 67	90 69	85 63	83 62	83 62	89 68	94 68	94 73	94 71	94 69	97 70	91 64	90 >	88 >	87 59	90 69	86 64	90 67	88.6 66.3	0900 EDT		
BALTIMORE NWS BWI APT	83 61	85 62	91 64	85 69	81 68	85 68	86 71	90 68	86 72	86 67	90 68	89 62	88 68	85 69	87 67	91 62	93 66	93 70	93 69	94 74	93 70	91 72	85 66	82 64	87 59	86 67	88 69	86 62	88 69	84 71	87.7 67.2	2400 EST	
LAUREL 2 E STOUDT	81 63	86 66	91 67	83 71	81 71	82 70	85 71	90 70	87 73	83 71	88 66	90 71	83 70	85 68	89 66	93 70	93 75	94 73	94 75	94 71	91 75	90 66	85 65	81 62	85 70	86 70	84 63	84 70	87 73	86 76	86.8 69.5	2400 EST	
OWINGS MILLS 2SE SHARROW	78 65	85 59	88 61	81 66	78 66	80 66	86 69	90 66	86 70	84 67	89 62	89 66	91 67	82 66	88 61	90 66	93 70	94 68	94 72	94 69	92 70	90 69	81 61	80 58	87 67	90 68	90 61	87 68	92 69	91 69	87.1 65.9	2400 EDT	
BALTIMORE 2SE MANFRE	85 66	86 67	93 68	86 70	84 72	86 73	88 72	92 74	89 74	87 75	90 71	91 74	89 72	86 68	88 70	92 71	94 76	96 77	96 74	94 77	93 75	94 77	87 68	84 66	89 68	88 72	89 74	88 72	90 71	90 76	89.4 72.1	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER	84 65	86 67	94 68	85 70	83 72	86 73	88 72	93 72	89 74	86 75	90 71	91 74	89 72	85 68	88 70	91 71	94 76	95 77	95 74	95 77	94 75	93 77	87 68	84 66	87 68	88 72	88 74	88 72	90 71	89 76	89.0 72.1	2400 EST	
MANCHESTER 1SW CLOSE	79 58	81 60	87 61	79 65	77 65	78 66	84 69	88 66	84 66	82 66	86 69	87 66	88 64	86 67	88 66	92 68	92 68	91 74	92 71	92 70	87 68	87 66	79 66	81 59	85 65	85 65	84 62	84 69	87 72	84 69	85.1 66.1	2300 EDT	
WESTMINSTER 4 SSE HARTSOCK	80 58	80 60	89 57	84 66	85 66	89 70	89 67	90 64	86 70	87 64	87 59	92 65	91 66	83 67	85 59	86 62	90 66	91 64	93 68	91 68	90 68	88 66	77 62	79 57	86 60	89 68	84 64	85 66	88 66	93 69	87 64	87.0 64.2	1900 EDT
WESTMINSTER 5 SSE KLEIN	77 59	79 61	85 59	78 63	80 65	80 65	82 67	83 65	79 64	M M	85 64	86 65	85 65	77 65	81 62	83 63	87 65	88 69	88 67	89 67	88 67	84 67	77 58	76 59	81 64	84 63	85 61	80 67	85 68	81 68	82.6 64.4	2200 EDT	
MILLERS 4NE MILLER	78 58	80 58	86 58	84 64	77 65	79 64	83 68	86 62	85 69	81 67	84 59	86 65	80 64	87 57	89 59	89 65	90 67	90 65	90 68	88 66	88 60	87 54	84 65	79 65	83 65	84 62	82 57	83 65	86 66	85 69	83.5 63.5	1800 EDT	
WESTMINSTER CITY MULLER	80 60	83 61	88 62	82 66	82 66	79 67	84 68	85 66	86 70	84 66	86 62	88 68	87 68	84 61	86 61	87 66	90 69	90 71	92 67	92 70	91 69	88 61	83 58	82 67	85 67	88 66	86 70	86 69	87 69	85 70	85.8 66.2	1900 EDT	
BRYANS ROAD 2 ESE BRUMBACK	81 60	87 61	92 65	89 67	84 68	83 68	84 69	89 66	84 66	87 71	91 63	90 68	84 68	88 67	91 64	94 64	95 70	94 73	95 71	95 71	92 67	85 61	84 62	88 60	89 54	90 62	89 68	90 65	89 68	92 72	86 73	88.9 67.2	2400 EDT
EMMITSBURG 2 SE GLASS	79 58	78 58	81 59	87 60	78 66	78 66	80 68	85 63	87 65	83 66	82 59	85 62	88 68	88 67	81 58	84 60	87 61	89 66	90 65	91 66	91 67	91 69	87 60	74 56	80 57	83 66	85 66	86 59	85 65	88 66	84.5 62.9	0630 EDT	

**ACON MD / DE / DC
JULY 2008 DAILY TEMPERATURES**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	OBS TIME	
FREDERICK 3 WNW LAWRENCE																																		2300 EDT
EAGLE ROCK HARVEY	72 52	68 54	79 60	80 60	66 60	80 60	76 58	80 60	84 62	76 60	79 56	80 63	86 68	85 65	76 58	82 62	84 58	89 62	89 60	86 64	86 62	80 62	80 65	79 58	78 60	82 66	79 56	80 60	82 60	82 65	82 65	80.2 60.4	0800 EDT	
LAUREL JHU / APL GIANNOLA	80 61	84 64	90 64	82 68	83 69	83 68	85 70	90 68	86 70	83 70	88 65	88 69	88 69	84 68	87 63	88 64	93 68	93 73	94 71	93 74	91 70	88 72	83 65	82 63	88 59	87 70	88 71	86 62	91 69	89 71	84 74	87.1 67.8	2400 EDT	
NORBECK 1 S BERGER	78 60	82 63	88 60	83 68	81 68	80 68	85 69	89 68	82 72	84 68	88 62	88 68	90 69	81 69	87 61	89 62	92 65	91 69	93 67	93 74	91 69	88 69	82 67	80 63	86 58	86 69	86 70	85 61	89 68	89 70	81 72	86.0 66.6	2200 EDT	
POTOMAC 4N COHEN	80 60	84 60	89 61	82 70	81 69	81 69	84 69	88 67	84 71	81 68	88 63	88 68	89 68	81 70	85 61	86 65	91 65	92 69	92 72	93 73	90 72	87 73	82 66	86 65	86 59	86 68	87 68	85 64	88 69	88 72	83 73	86.1 67.1	2100 EDT	
OLNEY 1 S GIANNOLA	78 60	84 61	89 64	81 68	80 69	79 69	85 69	89 67	89 71	82 68	87 64	89 69	90 70	81 69	85 62	88 64	92 67	92 70	94 69	94 74	92 69	90 70	81 66	81 62	86 59	87 69	85 69	84 61	87 67	87 71	84 72	86.2 67.1	2400 EDT	
CLARKSBURG 2ENE HOLDEN	78 59	81 61	88 64	80 66	80 68	81 68	84 65	89 65	83 70	82 66	85 64	87 69	87 68	82 65	85 65	87 65	90 69	91 71	91 69	92 70	90 67	86 68	78 63	81 60	85 62	85 66	87 66	84 64	88 67	88 71	82 71	85.1 66.3	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW	83 62	87 64	93 64	84 71	81 71	83 70	89 70	93 71	87 71	85 68	90 66	92 72	84 73	91 69	95 64	96 65	96 68	97 71	95 71	91 76	82 72	83 67	83 64	89 61	89 71	84 70	87 64	90 70	87 72	93 75	86 68.8	2400 EDT		
GLENMONT 1NNE ROSSEN	80 61	86 62	92 60	84 69	82 70	81 68	87 69	90 67	87 71	84 66	89 63	90 68	92 69	83 66	86 62	88 63	92 65	94 68	96 67	96 71	92 70	91 71	83 66	83 64	89 59	89 67	84 68	87 62	90 69	87 70	82 72	87.6 66.5	2400 EST	
BETHESDA SCAFIDE	76 65	81 69	87 64	82 69	78 69	79 69	82 69	86 67	83 72	81 68	85 65	86 69	86 66	81 66	85 64	87 65	91 69	89 71	90 69	90 73	86 71	84 64	84 63	84 61	88 68	87 69	82 63	86 69	87 73	86 69	82 72	84.2 67.8	2400 EDT	
GAITHERSBURG 2WNW SHAW	79 60	83 60	93 60	81 68	87 68	83 69	87 69	91 67	87 70	84 67	86 64	89 69	91 70	84 67	86 62	90 63	93 66	93 70	94 68	96 71	93 69	90 65	80 62	84 59	89 68	88 69	87 62	88 68	92 70	90 72	84 72	87.8 66.5	2400 EDT	
FOREST GLEN TERRY	83 60	86 62	91 62	87 69	83 69	85 68	86 69	91 68	86 69	85 62	90 69	91 66	87 66	89 63	92 65	95 69	94 68	95 68	95 74	94 70	85 65	84 62	89 58	89 69	89 61	88 69	91 69	88 72	91 72	86 72	89.1 66.9	2400 EDT		
OXON HILL SMITH	83 62	85 66	91 65	87 73	84 68	86 69	86 70	90 69	85 72	86 73	88 66	90 70	91 68	85 66	87 66	91 67	94 71	93 71	93 64	86 63	84 64	84 72	80 72	94 73	93 73	88 66	86 71	86 73	91 73	90 76	86 68.8	2300 EDT		
HOLLYWOOD ABELL	81 61	83 61	89 65	87 67	80 68	84 67	84 68	88 68	80 72	83 67	87 64	88 67	88 68	79 68	87 64	88 64	93 65	92 69	92 71	93 75	91 70	89 66	89 62	83 67	87 67	85 69	86 66	84 67	87 71	91 74	86 67.5	2359 EDT		
RIDGE ZYLA	82 63	82 64	90 72	84 71	81 72	82 68	85 70	89 73	81 72	81 68	85 67	85 69	74 68	85 68	87 68	91 69	90 73	90 77	90 76	88 71	88 70	91 66	81 69	83 70	83 69	84 70	89 69	83 72	86 74	87 73	84 70.2	2400 EDT		
SMITHSBURG 1.5 SW HUTTO	77 57	83 56	88 57	76 66	82 65	83 64	87 66	89 63	84 71	84 63	87 57	89 63	90 70	73 62	87 56	89 58	91 61	91 66	92 63	92 65	92 64	88 65	77 64	82 59	84 55	87 62	87 62	84 56	88 64	88 65	85 67	85.7 62.3	2400 EDT	
HAGERSTOWN 1E KEEFER	76 59	84 59	90 61	76 66	81 66	81 66	87 68	89 65	84 73	84 65	86 65	89 65	89 70	83 65	85 68	88 60	91 64	92 69	92 66	93 69	92 67	88 67	76 63	82 59	85 65	87 65	87 59	85 65	88 65	89 67	85 69	85.9 64.5	2400 EDT	
SMITHSBURG 2 NE VAUGHN	84 59	80 59	86 66	76 66	80 65	81 66	83 68	86 64	81 71	82 65	83 59	87 66	87 68	81 64	85 59	86 61	88 63	88 68	89 68	90 67	89 65	85 68	77 63	80 61	81 57	84 69	84 65	82 59	87 65	86 65	83 69	83.9 64.5	2400 EDT	
SALISBURY NWS WICOMICO CO APT	83 59	85 58	89 64	89 68	81 69	84 71	87 69	89 60	80 56	85 59	87 57	87 70	88 63	80 56	87 55	88 59	93 64	93 68	92 66	93 69	94 67	95 69	92 57	83 59	87 54	87 63	89 60	86 64	87 74	91 70	88 63.5	2400 EDT		
WASH NATIONAL NWS ASOS	82 65	86 68	93 68	88 72	83 72	84 72	86 71	91 73	88 74	89 71	90 74	91 74	87 71	88 69	89 70	93 73	93 75	94 74	94 77	94 75	95 76	92 68	87 67	85 68	88 73	89 69	89 74	87 71	91 78	92 78	88 72.0	2400 EST		
WASH DULLES NWS ASOS	79 58	84 59	90 63	84 69	82 68	82 68	86 66	90 66	84 72	85 66	89 62	89 67	91 70	85 65	88 61	89 63	93 63	92 69	93 68	95 72	94 71	90 70	82 65	83 60	86 58	88 67	88 65	86 59	91 70	92 73	86 72	87.6 66.0	2400 EST	
STERLING 4 N SHAFFER	77 61	82 62	87 63	82 71	81 69	79 70	85 69	89 74	83 69	81 65	84 69	89 70	90 71	82 64	85 65	86 66	88 70	90 68	91 73	92 71	87 70	87 60	81 64	83 61	85 70	86 71	84 63	87 71	89 73	84 74	85.2 68.2	2400 EDT		
DAVIS 3 SE WV LESHER	67 49	62 49	72 51	75 57	63 57	71 57	69 58	71 59	78 60	69 57	75 51	81 53	75 55	75 53	75 51	78 50	80 52	82 59	79 58	79 59	77 61	77 63	70 58	68 52	74 50	76 50	72 61	76 50	77 52	75 60	73.7 55.2	0700 EDT		

**ACON MD / DE / DC
JULY 2008 DAILY PRECIPITATION**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	OBS TIME
BEAR 2 SW, DE GALLAHER		T		0.05	0.01				0.85	0.01				0.44						0.52	0.01	2.47	0.15			1.24					5.75	2400	
WILMINGTON, DE NWS NEW CASTLE CO APT	0.02			0.07	T	T			0.29					0.44						0.59	0.28	2.57	0.24			0.19			T		4.69	2400	
NEWARK AG FARM, DE U OF DE DEOS	0.51			0.08		0.26			0.17	0.01										1.21		0.78	0.18			0.85					4.05	2400	
TOWNSEND 4 W, DE U of D REC DEOS	0.01			0.32	0.20	0.09			0.31					0.24								0.20	0.31						0.21		1.89	2400	
GEORGETOWN, DE NWS SUSSEX CO APT				0.35	0.01	2.79	T	0.10	0.38					T							T	0.15	0.63			0.02			0.01	4.44	2400		
GEORGETOWN, DE U of D REC DEOS				0.48	0.01	2.78		0.15	0.07					0.03								0.17	0.74								4.43	2400	
HARBESON 8 S, DE U of D REC DEOS				0.36	0.02	1.22	0.04	0.07	0.39														0.60			0.41	0.01				3.12	2400	
FROSTBURG LATTA	0.04			0.40	0.33	0.40			0.06	0.07				T				T			0.19	0.60	0.52	0.14			T			0.59	3.34	0700	
LAVALE MULLINS**			0.05	0.75	0.03			0.03	0.08				0.05							0.18	0.41	0.15	0.60						0.69	0.27	3.29	2400	
PASADENA 2N HANSON				0.28	0.02		0.01		0.42				0.31	0.67						0.23			1.34	0.10		0.42		0.06			3.86	2400	
LOTHIAN JUG BAY	0.05	0.05			0.51	0.09	0.15			0.69				0.97							0.05		0.12	0.40				0.86			3.94	0900	
BWI NWS ASOS				0.10	0.04	0.19	T		0.43				0.71	0.55						0.24	T	2.42	0.04		T	0.65	T	0.10	T		5.47	2400	
LAUREL 2 E STOUDT				>	>	0.32			0.17				1.00	0.60						0.34	0.01	2.28	0.01			0.75		0.05			5.53	2400	
OWINGS MILLS 2SE SHARROW	T			0.12	0.08	0.04			0.26			T	0.35	0.47							T		0.75			0.04		T	0.79	0.04	2.94	2400	
BALTIMORE 2SE MANFRE				0.09	0.01	0.35	0.85		0.31				0.90	0.44						0.17	T	1.66	0.05			0.26		0.02			5.11	1800	
BALT INNER HARBOR MD SCIENCE CENTER				0.09	0.01	0.37	0.86		0.31				0.87	0.42						0.22		1.66	0.05			0.25		0.02			5.13	2400	
MANCHESTER 1SW CLOSE	0.01			0.41	0.04	0.02	0.06		0.29			0.04	0.62	0.89						0.07	0.01	T	0.40	0.10		0.73			0.02		3.71	2300	
WESTMINSTER 4 SSE HARTSOCK	0.02			0.27	0.04				0.72				0.88	1.35									0.50			0.43					4.21	1900	
WESTMINSTER 5 SSE KLEIN				0.28					0.87				1.16	1.08							0.02		0.65			0.50					4.56	2200	
MILLERS 4NE MILLER				0.35	0.80		T		0.22			T	0.10	1.06							0.05	T	0.38	0.48		0.24			T		3.68	1800	
WESTMINSTER CITY MULLER				0.38	0.08		0.26		0.76				0.80	0.49							0.04	0.02	0.33	0.20		0.01	0.28				3.65	1900	
BRYANS ROAD 2 ESE BRUMBACK				0.27	0.17	0.02	0.23		0.03				0.48	0.80						0.09	0.01	0.49	0.28	0.01		0.45	0.01			T	3.34	2400	
EMMITSBURG 2 SE GLASS	0.01	T		0.37	0.20	0.03	0.05			0.19				0.98							0.02		0.07	0.79						0.06	2.77	0630	
																															0.0	EDT	

**ACON MD / DE / DC
JULY 2008 DAILY PRECIPITATION**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	OBS TIME	
FREDERICK 3 WNW LAWRENCE																																2300 EDT		
EAGLE ROCK HARVEY	0.05			0.75	0.55	T	T	0.19	0.22												1.17	1.02		0.12			T			0.67	4.74 0.0	0800 EDT		
LAUREL JHU / APL GIANNOLA				0.02	0.01	1.04			0.37				0.47	0.36						0.07		T	0.47	0.04			0.01		0.05	0.03		2.94 0.0	2400 EDT	
NORBECK 1 S BERGER				0.07	0.04	0.06	0.02		0.20				0.65	0.41						0.02		0.02	0.07	0.42		0.01	0.42		0.09			2.50 0.0	2200 EDT	
POTOMAC 4N COHEN				0.13	0.06	0.01		T	0.53				0.39	0.38									0.50				0.11		0.17	0.02		2.30 0.0	2100 EDT	
OLNEY 1 S GIANNOLA				0.07	0.04	0.09	0.01		0.28				>	1.05						0.03		0.02	>	0.56		0.01	0.56		0.11	T	T	2.83 0.0	2400 EDT	
CLARKSBURG 2ENE HOLDEN				0.27	0.02	T	0.09		0.48				0.80	0.11						0.06		0.03	0.32			0.01	0.59		0.01			2.79 0.0	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW				0.09	0.05	0.12			0.10				0.57	0.35			0.87						0.07	0.35			0.06		0.13	0.01		2.77 0.0	2400 EDT	
GLENMONT 1NNE ROSSEN				0.08	0.03	0.03	0.04	0.08	0.24				0.30	0.35						0.01		0.01	0.54	0.02			0.31	T	0.12	0.02	T	2.18 0.0	2400 EST	
BETHESDA SCAFIDE				0.16	0.03	0.05	0.60		0.26				0.54	0.19								0.02	0.48	0.01			0.29	1.17				3.80 -	2400 EDT	
GAITHERSBURG 2WNW SHAW				0.09	0.04	0.03	0.37		0.59				0.73	0.15						0.05		0.04	0.30	0.04		0.02	T		0.10		T	2.55 0.0	2400 EDT	
FOREST GLEN TERRY				0.12	0.03	0.12			0.65				0.63	0.60						T		0.15	0.69	0.09			0.31		0.03		T	3.42 0.0	2400 EDT	
OXON HILL SMITH				0.13	0.15	0.06	0.03						0.24	0.60							>	>	>	>	3.26		0.14		0.01				4.62 0.0	2300 EDT
HOLLYWOOD ABELL				0.61	0.03		0.09		0.03					0.24								0.34	1.38	0.41		0.03	0.75		0.39	0.04			4.34 0.0	2359 EDT
RIDGE ZYLA	0.02			0.13		1.14	0.11		0.28					0.21									0.28	1.99	1.15			0.26		0.52			6.09 0.0	2400 EDT
SMITHSBURG 1.5 SW HUTTO	0.26	0.01		0.74	0.11	0.01	0.17		0.16				0.67	0.08						0.07	0.01	0.06	2.05	0.01		0.12				0.13			4.66 0.0	2400 EDT
HAGERSTOWN 1E KEEFER	0.10			0.84	1.19		0.25	0.01	0.05				0.68	0.11						0.13		0.06	1.59			0.67				0.11	0.02		5.81 0.0	2400 EDT
SMITHSBURG 2 NE VAUGHN	0.01			0.54	0.03	0.01			0.28				0.96	0.16						0.37		0.01	2.08							0.13			4.58 0.0	2400 EDT
SALISBURY NWS WICOMICO CO APT				0.89	T	0.15		0.13	0.15					T								0.21	0.15	0.63	T		0.08		1.04	0.29	0.25		3.97 0.0	2400 EDT
WASH NATIONAL NWS ASOS				0.05	0.07	0.01			0.01				0.58	0.53			0.26				T	0.04	1.09	T			0.95	T	0.01				3.60 0.0	2400 EST
WASH DULLES NWS ASOS				0.14	0.06	0.04			0.01				1.06	0.14						0.01	0.02	0.21	0.38				0.02	T	0.09		T	2.18 0.0	2400 EST	
STERLING 4 N SHAFFER				0.14	0.08	0.82	0.04	0.01	0.31				0.53	0.22						0.10		0.03	0.35	T			0.10		0.19		0.01		2.93 0.0	2400 EDT
DAVIS 3 SE WV LESHER	0.47	0.01		0.58	1.48	0.29	0.05	0.06	0.09	0.09				0.26							0.16	0.07	0.81	0.39			T	0.05	T		0.15		5.01 0.0	0700 EDT