



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

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

NUMEROUS THUNDERSTORMS SOME WITH HAIL

June was an "active" weather month. Dense fog, high humidity, high temperatures, strong thunderstorms, damaging winds, hail, funnel cloud and smoke were all reported. Temperatures averaged above normal while precipitation was quite variable but overall averaged above normal. Over 7 inches of rain fell in Prince Georges, St. Marys Counties of Maryland and in the Western Maryland Mountains.

The severest storm of the month was reported by **Jim Vaughn of Smithsburg 2 NE**. On the 23rd around 8 PM a severe thunderstorm hit Jim's home. Jim wrote "Rainfall total of 1.16", 1.01" fell in 10 minutes...Neighbor measured 3/4" hail...completely covered the ground with an average of 1.2". I arrived home from the weather station at 1 AM, five hours later. The ground was still 20% covered. I took forty random hail stones and measured them. The average size was 1/2" with the largest hail stone measuring 1.2". A couple hundred acres of corn were stripped within three miles of my homestead in every direction. Way after the storm ended a freak lightning strike fried my main weather station and parts of my backup weather station."

Marty Sharrow of Owings Mills reported 11 thunder events but below average precipitation. Marty wrote: "I've noticed that many storms that are headed this way seem to lose steam once they cross over Parr's Ridge in Carroll County. Even though this geographic feature isn't as nearly as prominent as the Blue Ridge or Appalachians well to the west, it seems to me that it is significant enough at times to influence rainfall in the northwestern corner of Baltimore County." Link to info on Parr's Ridge is on page 2.

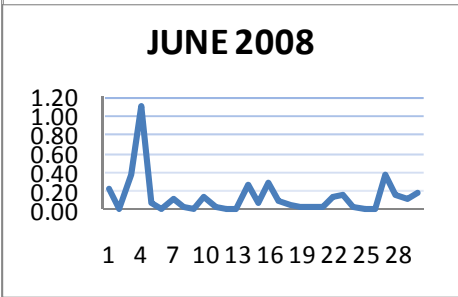
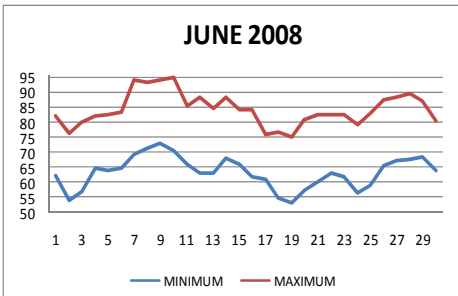
Thunderstorms on the 3rd and 4th dumped an average of 1 to 2 inches of rain. The heaviest rains fell in St Marys County where **John Zyla** of Ridge reported 3.43" and **Floyd Abell** of

Hollywood 3.34".

The first heat wave of the summer occurred from the 7th to the 10th. Mid 90's readings were common at many locations east of the Maryland Mountains. **Stan Rossen of Glenmont 1 NNE** set a new June maximum temperature record of 98° on the 10th. 100° was reported by **Dan Hanson of Pasadena 2N** on the 7th and **David Roth of Montgomery Village 1 SW** on the 10th.

Thunderstorms, some with hail around Washington DC, occurred the evenings of the 7th and 10th. Southerly winds brought smoke north from wild fires in North Carolina and Virginia on the 13th.

The 17th to the 20th saw refreshing cool temperatures along with low humidity. Minimum temperatures ranged from the upper 40's to mid 50's were the coolest of the month. The last 90° temperatures occurred on the 27th and 28th. A funnel cloud was sighted east of Smithsburg on the 28th.



ACON MD/DE Network

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

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Pasadena 2N	100
Mont. Village 1 SW	100
Georgetown DEOS, DE	99
Baltimore 2 SE	99

MINIMUM TEMPERATURE

Davis 3 SE, WV	42
Eagle Rock	44
Smithsburg 1.5 SW	45

WARMEST AVG. TEMP.

Baltimore 2 SE	78.7
Mont. Village 1 SW	77.2

COLDEST AVG. TEMP.

Davis 3 SE, WV	63.8
Frostburg	67.4
Eagle Rock	67.6

MAXIMUM PRECIPITATION

Davis 3 SE, WV	11.23
Ridge	9.82
Hollywood	8.23

MINIMUM PRECIPITATION

Owings Mills	1.39
Harbeson 8 S, DE	1.87



Rainbow 6/23 at Columbia MD
Picture by Kevin Shaw of Gaithersburg 2 WNW

OBSERVER COMMENTS FOR JUNE 2008

Gary Gallaher of Bear 2 SW, DE

Sunny month, only two cloudy days and no strong thunderstorms. From the 5th to the 30th rain only fell during 12 hourly periods. As a result of the drying ground periods of high humidity were limited during the last half of the month.

Nate Mullins of LaVale

3rd - Late afternoon brief heavy shower dropping 0.29" in 15 minutes.

13th - Very heavy, stationary thunderstorms just to the W of this station dropped 2" of rain. Only 0.06" fell at this station.

17th—19th - Three consecutive days temperatures failed to climb out of the 60's. 62° on the 17th unusually cool.

Jeff Stoudt of Laurel 2 E

Thunderstorms were rather frequent, but none brought prolonged downpours or severe weather. Rainfall exhibited a diminishing trend, which was welcome after a soggy May.

Marty Sharrow of Owings Mills

1st - Morning sun, afternoon clouds and showers.

7th - Morning fog, afternoon sun, hot and humid.

11th - Sparkling sunshine, drier, and warm.

27th - Very warm, humid, late afternoon storm.

Joe Manfre of Baltimore 2SE

10th - Sunny, evening and night light showers and thunderstorms.

22nd - Partly cloudy, hot, humid, a few sprinkles.

Ralph Hartssock of Westminster 4 SSE

4th - Tornado watch, heavy thunderstorms.

10th - Very hot, severe thunderstorm, hail, much tree damage.

Bobby Miller of Millers 4 NE

10 days with thunder.

10th - Thunderstorm—power out 6PM to 10PM

Ray Muller of Westminster City

7th - Dense fog

Marty Brumback of Bryans Road 2 ESE

10th - High thin cirrus most of the day - Dreadfully hot-humid.

11th - Beautiful mares tails and lower humidity.

24th - Clear and beautiful

Eric Glass of Emmitsburg 2 SE

19th - Clear, sunny, cool, bright

28th - Hazy

Rebecca Harvey of Eagle Rock

9 days with thunder.

Rich Giannola of JHU/APL

4th - Peak wind gust 51 MPH WNW @ 3:28 PM.

14th - High and low temps occurred 1 hr 9 minutes apart.

Rob Cohen of Potomac 4 N

13 days with thunder, a June record.

4th - Very heavy rain, strong gusts 3:30 PM. Second thunderstorm 6 PM.

10th - Record max temperature. Brief pea-size hail 8:15 PM.

14th - Gusty thunderstorm 3 PM.

Rich Giannola of Olney 1 S

7th - Morning fog burning off by 9 AM. Evening thunderstorm - Pea size hail 7:58-8:00 PM. Rainbow at 8:05 PM.

18th - Brief SHRA 5:35-5:40 PM with very large drops = trace. Maximum splash diameter of these large drops on slate patio was 2.5".

Stan Rossen of Glenmont 1 NNE

7th - Fog - Early morning visibility 3/8 mile.

9th - 97° ties June record high from 6/8/1984, 6/22/1988, and 6/26/2002.

10th - New June record high of 98°.

26th - Daily temperature readings began 6/26/1977

Kevin Shaw of Gaithersburg 2 WNW

Muggy hot period near the beginning of the month didn't break max temp records, but either tied or set several daily high min temp records. Precipitation during the month was fairly evenly distributed, keeping lawns green.

23rd - Sunny AM & early PM. Clouds increase afternoon and evening. Single and double rainbows in area.

Joe Terry of Forest Glen

14 thunderstorm days a new June record and tied August 2003 for the most. It was also the windiest June in station history (since 1994).

4th - Numerous thunderstorms early AM to late evening. 13 hour power outage starting at 1515.

7th - Good thunderstorm around 2100 with some close lightning. Impressive display SE afterwards, about one bright flash every 2 seconds.

10th - Five minutes of pea-sized hail around 2020.

Brian Smith of Oxon Hill

7th - Dense AM fog.

30th - Upper portion of a rainbow in virga at 1938

Floyd Abell of Hollywood

14th - Heavy rain, small hail. Strong gusty winds around 6:30 PM.

John Zyla of Ridge

14 days with thunderstorm.

Max Hutto of Smithsburg 1.5 SW

4th - PM thunderstorms that were damaging in southern Washington County.

14th - PM thunderstorms, power outage, very windy.

23rd - Overnight thunderstorm then light fog. PM nearby severe thunderstorms, hail, funnel cloud, breezy.

Greg Keefer of Hagerstown 1 E

7th - 95° tied record high set in 1999.

8th - 95° broke old record high of 94 set in 2002.

28th - Strong thunderstorm 7:30 - 8 PM with brief heavy rains, wind gusts to 42 MPH. Frequent sharp lightning. Some wind damage reported.

Jim Vaughn of Smithsburg 2 NE

23rd - Major hail storm. Wind gust of 56 MPH. Hail 3/4" diameter was 4" deep in places, seven inches under down spouts. Major tree and crop damage.

Link from Marty Sharrow for information about the Parr Ridge: Book by the Maryland Weather Service 1910.
http://books.google.com/books?id=JtQLAAAAYAAJ&pg=PA221&lpg=PA221&dq=Parr%27s+ridge+geography&source=web&ots=dSmQquVcl4&sig=fzoc5X9sEHn0Cm84B_IUw-XjDV4&hl=en&sa=X&oi=book_result&resnum=1&ct=result

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
JUNE 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>New Castle, Delaware</i>																										
Gallagher, Gary	Bear 2 SW	85.3	62.7	74.0	96	10	50	18	6	0	0	34	W	23	3.35	2.19	4	20.47	9	1	0.0	0.0	9.2	2400		
NWS Wilmington	New Castle Co. Apt.	85.3	64.8	75.1	96	10	53	18+	6	0	0	36	W	28	2.71	1.71	4	19.69	6	1	0.0	0.0	9.2	2400		
U of DE DEOS***	UofD AG Farm Newark, DE	85.8	63.6	74.7	97	9+	51	19	7	0	0	19		10	2.49	1.68	4	20.44	11	1				2400		
U of DE REC DEOS***	Townsend 4 W	84.5	63.2	73.9	97	10	51	18	5	0	0	38		16	2.27	1.42	4	20.11	7	1				2400		
<i>Sussex, Delaware</i>																										
NWS Georgetown	Sussex Co. Airport	87.1	64.9	76.0	98	10	53	18	10	0	0				1.62	0.64	4	17.78	14	0				2400		
U of DE REC DEOS***	Georgetown	86.1	64.5	75.3	99	10	53	18	9	0	0	33		4	3.06	1.13	4	18.24	16	1			4.7	2400		
U of DE REC DEOS***	Harbeson 8 S	84.9	63.7	74.3	97	10	52	18	9	0	0	32		4	1.87	0.98	4	16.50	14	0			1.0	2400		
<i>Allegany, Maryland</i>																										
Latta, Greg	Frostburg	77.7	57.1	67.4	89	7	46	19	0	0	0				7.25	1.98	14	28.92	17	2	0.0	0.0	41.4	0700		
Mullins, Nate**	LaVale	80.3	61.0	70.7	92	8+	51	2	4	0	0				3.55	0.95	4	24.25	14	0	0.0	0.0	22.0	2400		
<i>Anne Arundel, Maryland</i>																										
Hanson, Dan	Pasadena 2 N	88.3	64.1	76.2	100	7	52	19	13	0	0	29	SW	7	2.92	0.68	4	19.95	14	0	0.0	0.0	7.5	2400		
Jug Bay Wetlands	Lothian	88.7	63.0	75.9	99	9	52	17	10	0	0				6.73	1.37	1	32.72	15	4	0.0	0.0	2.2	0900		
NWS Baltimore	BWI Airport	86.6	64.0	75.3	96	10	52	18	9	0	0	55	W	4	3.70	0.85	27	23.73	10	0	0.0	0.0	8.5	2400		
Stoudt, Jeff	Laurel 2 E	85.4	66.5	76.0	96	10	57	2+	7	0	0				3.57	M	M	25.26	7	2	0.0	0.0	7.2	2400		
<i>Baltimore, Maryland</i>																										
Sharrow, Marty	Owings Mills 2 SE	86.0	62.9	74.5	97	10	52	18+	8	0	0				1.39	0.67	4	18.28	8	0	0.0	0.0	11.1	2400		
<i>Baltimore City, Maryland</i>																										
Manfre, Joe	Baltimore 2 SE	88.0	69.4	78.7	99	7+	59	19	10	0	0				3.77	1.20	3	20.92	10	1	0.0	0.0	7.6	1800		
Maryland Science Ctr	Baltimore Inner Harbor	87.7	69.2	78.5	99	7+	59	19	10	0	0				3.27	1.15	3	19.91	10	1				2400		
<i>Carroll, Maryland</i>																										
Close Jr, Herb	Manchester 1 SW	82.8	63.4	73.1	92	10	50	19	4	0	0				2.55	1.29	3	22.24	15	1	0.0	0.0	18.4	2300		
Hartsock, Ralph	Westminster 4 SSE	85.2	61.9	73.6	95	10	48	19	8	0	0	58		10	3.08	0.94	4	25.33	14	0	0.0	0.0	13.1	1900		
Klein, Greg	Westminster 5 SSE	81.4	62.0	71.7	91	8+	51	2+	3	0	0				2.97	0.88	4	24.71	13	0	0.0	0.0	17.5	2200		
Miller, Bobby	Millers 4 NE	82.1	61.2	71.7	91	7	48	19	4	0	0	42	SW	27	2.78	1.85	4	26.50	13	1	0.0	0.0	18.0	1800		
Muller, Ray	Westminster City	84.9	64.0	74.5	96	7	51	19	6	0	0	41	NW	10	2.16	0.91	4	23.64	11	0	0.0	0.0	15.3	1900		
<i>Charles, Maryland</i>																										
Brumback, Marty	Bryans Road 2 ESE	87.6	64.2	75.9	98	7	54	18+	10	0	0	53		4	4.28	1.32	3	29.36	15	2	0.0	0.0	5.9	2400		
<i>Frederick, Maryland</i>																										
Glass, Eric	Emmitsburg 2 SE	82.5	60.5	71.5	91	8+	49	1+	6	0	0				2.90	1.28	4	21.41	14	1	0.0	0.0	11.0	0630		
Lawrence, Bryon	Frederick 3 WNW	STATION CLOSED MAY 2008																							11.5	2300
<i>Garrett, Maryland</i>																										
Harvey, Rebecca	Eagle Rock	77.5	57.6	67.6	89	10	44	2	0	0	0				7.96	1.90	1	35.57	15	2	0.0	0.0	118.3	0800		

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JUNE 2008 SUMMARY**

OBSERVER	STATION <i>COUNTY, STATE</i>	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
<i>Howard, Maryland</i>																								
Giannola, Rich	Laurel JHU / APL	86.0	65.0	75.5	98	10	54	19	9	0	0	54	WSW	7	3.23	0.65	4+	21.38	12	0	0.0	0.0	9.7	2400
<i>Montgomery, Maryland</i>																								
Cohen, Rob	Potomac 4 N	85.2	64.1	74.7	95	9+	53	18+	6	0	0				4.60	1.10	27	26.38	12	1	0.0	0.0	8.7	2100
Giannola, Rich	Olney 1 S	84.1	63.7	73.9	94	7+	54	2+	5	0	0				4.21	1.63	3-4	26.84	12	1	0.0	0.0	10.2	2400
Holden, Richard	Clarksburg 2 ENE	83.6	63.3	73.5	94	7+	52	19	4	0	0	44	SSW	4	4.22	0.77	4	25.77	14	0	0.0	0.0	11.3	2400
Roth, David	Montgomery Village 1SW	88.8	65.5	77.2	100	10	55	18+	12	0	0	15		10	2.78	1.12	4	<u>22.00</u>	11	1				2400
Rossen, Stan	Glenmont 1 NNE	86.7	63.6	75.2	98	10	53	18	10	0	0	13		3	3.37	0.87	4	25.91	13	0	0.0	0.0	10.3	2400
Scafide, Tony	Bethesda	83.6	65.1	74.4	94	10	54	18	4	0	0	14		7	4.99	1.37	4	23.47	15	2				2400
Shaw, Kevin	Gaithersburg 2 WNW	85.4	63.5	74.5	94	26	52	18+	8	0	0				4.62	1.65	4	25.67	13	1	0.0	0.0	9.7	2400
Terry, Joe	Forest Glen	88.0	63.8	75.9	98	7+	52	18	10	0	0	31	NNW	14	4.49	1.36	4	27.74	14	2	0.0	0.0	8.6	2400
<i>Prince Georges, Maryland</i>																								
Smith, Brian	Oxon Hill	87.8	66.0	76.9	98	7	57	18	10	0	0				8.21	1.62	4	36.95	14	3	0.0	0.0	6.0	2300
<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	85.8	64.8	75.3	96	7+	53	18	7	0	0	53		14	8.23	2.72	4	28.02	16	3	0.0	0.0	4.5	2400
Zyla, John	Ridge	85.3	66.7	76.0	97	10	51	2	7	0	0	36	SW	30	9.82	1.93	4	27.09	13	4	0.0	0.0	5.6	2400
<i>Washington, Maryland</i>																								
Hutto, Max	Smithsburg 1.5 SW	84.5	60.0	72.3	95	9	45	19	6	0	0	33	WNW	18	4.15	0.94	27	28.87	15	0	0.0	0.0	12.8	2400
Keefer, Greg	Hagerstown 1 E	84.9	62.2	73.6	96	9	48	19	5	0	0	42	SW	28	3.37	0.81	27	27.18	13	0	0.0	0.0	12.0	2400
Vaughn, Jim	Smithsburg 2 NE	83.4	62.6	73.0	93	7	49	19	5	0	0	56	N	23	4.10	1.16	23	29.58	14	1	0.0	0.0	10.7	2400
<i>Wicomico, Maryland</i>																								
NWS Salisbury	Wicomico Co. Apt	86.6	60.4	73.5	97	7+	47	18	10	0	0	49	NW	16	4.45	1.70	4	22.77	12	2	0.0	0.0	2.8	2400
<i>Arlington, Virginia</i>																								
NWS Washington Natlona	National Airport	87.2	68.5	77.9	98	7+	58	18	8	0	0	59	WSW	4	4.80	1.49	4	28.72	12	1	0.0	0.0	2.3	2400
<i>Loudon, Virginia</i>																								
NWS Washington Dulles	Dulles Airport	85.6	63.1	74.4	95	7+	53	18	8	0	0	59	WSW	3	4.21	1.63	4	26.22	13	1	0.0	0.0	8.3	2400
Shaffer, Lance	Sterling 4 N	84.1	65.0	74.6	94	9+	55	18+	7	0	0				2.96	1.09	4	24.89	15	1	0.0	0.0	10.3	2400
<i>Tucker, West Virginia</i>																								
Leshner, Dave	Davis 3 SE WV	72.6	55.0	63.8	83	7+	42	2	0	0	0				11.33	2.56	1	44.21	15	4	0.0	0.0	155.2	0700
SECTION AVERAGE*		85.1	63.6	74.4											4.02			24.66					13.9	

NOTES:

M OR UNDERLINE = MISSING DATA
 > = INCLUDED IN NEXT DAYS DATA
ITALIC = ESTIMATED DATA

*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.

**OBSERVER FOR LAVALE IS SCOTT LOHR. DATA COMPILED BY NATE MULLINS.

*** DATA FROM DEOS (DELAWARE ENVIROMENTAL OBSERVING SYSTEM) PERMISSION GRANTED FOR USE OF DATA

*** REC= UNIVERSITY OF DELAWARE RESEARCH AND EDUCATION CENTER

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 Only reports certified by the National Climatic Data Center in Asheville, NC may be used for these purposes.
 Accuracy of Data from ACON Observers not guaranteed.

GARY GALLAHER 1/11/09

ACON MD / DE / DC
JUNE 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	AVG	OBS TIME
BEAR 2 SW, DE	83	79	82	83	79	80	95	94	95	96	85	88	83	88	85	87	78	78	75	81	86	85	85	81	85	89	93	90	87	84	85.3	2400
GALLAHER	61	59	55	64	64	61	65	73	72	72	66	61	61	65	64	60	56	50	52	54	60	66	66	58	56	66	69	69	70	66	62.7	EDT
WILMINGTON , DE	84	80	81	82	77	76	92	94	95	96	86	90	84	89	87	87	79	77	76	81	85	84	85	83	85	89	93	89	89	85	85.3	2400
NWS NEW CASTLE CO APT	83	57	59	64	64	64	67	73	76	73	68	64	67	69	70	63	57	53	53	57	61	69	66	60	60	70	70	70	71	67	64.8	EST
NEWARK AG FARM, DE	83	78	83	82	80	82	95	94	97	97	85	89	86	90	85	88	77	77	75	82	88	87	85	80	86	88	91	91	89	84	85.8	2400
U OF DE DEOS	64	59	57	63	63	62	66	72	75	72	68	64	63	66	68	62	58	53	51	55	61	67	67	58	59	67	70	68	69	65	63.6	EDT
TOWNSEND 4 W, DE	82	77	81	83	78	81	93	92	94	97	83	87	85	88	83	86	77	78	74	81	84	84	84	80	84	88	91	89	87	83	84.5	2400
U of DE REC DEOS	62	56	56	62	62	59	66	70	76	72	67	63	62	67	67	62	57	51	54	56	62	66	65	59	56	69	70	67	70	67	63.2	EDT
GEORGETOWN, DE	85	79	82	85	74	84	97	95	97	98	87	88	87	91	86	90	82	79	77	83	88	87	84	82	86	92	94	94	92	87	87.1	2400
NWS SUSSEX CO APT	65	59	58	65	62	61	69	74	73	74	68	64	61	67	67	63	63	53	56	58	65	65	66	63	61	67	70	69	73	67	64.9	EST
GEORGETOWN, DE	84	78	80	84	75	85	97	94	97	99	86	87	86	90	85	88	81	77	77	82	86	85	83	81	85	92	92	92	90	86	86.1	2400
U of DE REC DEOS	65	59	58	63	62	61	69	73	72	75	69	64	63	67	67	62	61	53	55	57	66	64	66	62	59	66	72	68	72	67	64.5	EDT
HARBESON 8 S, DE	83	76	80	84	70	78	92	94	96	97	84	84	82	90	84	88	79	77	76	81	86	86	84	80	86	92	93	93	90	86	84.9	2400
U of DE REC DEOS	63	57	56	63	61	61	68	73	76	73	67	63	60	66	68	62	61	52	55	56	64	64	65	61	58	67	68	68	72	67	63.7	EDT
FROSTBURG	74	74	75	77	72	83	89	87	86	88	85	80	84	81	73	77	74	64	67	68	75	79	76	76	72	77	81	77	81	78	77.7	0700
LATTA	57	48	51	53	62	62	64	69	68	65	56	56	58	63	59	59	53	48	46	48	51	56	56	51	53	55	62	64	61	58	57.1	EDT
LAVALE	76	75	74	72	81	88	91	92	92	90	82	85	85	80	80	78	62	68	69	78	81	81	81	76	78	88	83	87	82	75	80.3	2400
MULLINS**	58	51	52	63	63	67	67	73	73	69	62	60	63	68	63	58	55	52	52	62	56	58	58	54	58	63	63	66	63	59	61.0	EDT
PASADENA 2 N	88	83	81	85	83	82	100	96	99	97	90	93	87	91	90	90	80	81	79	86	87	86	91	85	88	94	96	90	89	85	88.3	2400
HANSON	63	60	56	67	65	65	69	69	72	72	68	62	66	71	67	62	59	53	52	59	63	66	63	56	59	67	70	68	68	67	64.1	EDT
LOTHIAN	85	M	83	86	83	84	98	95	99	98	88	90	M	92	89	88	80	82	80	85	87	87	88	86	89	93	96	92	91	M	88.7	0900
JUG BAY	54	M	55	63	66	63	69	70	71	67	61	63	M	66	61	60	52	62	56	62	60	65	57	59	62	70	67	69	71	M	63.0	EDT
BALTIMORE	85	79	82	84	82	84	95	93	94	96	86	91	88	90	86	86	77	78	77	84	87	86	87	84	88	93	93	90	88	84	86.6	2400
NWS BWI APT	62	56	55	67	65	66	70	74	71	68	62	64	69	68	61	55	52	54	59	65	66	63	58	60	68	70	68	69	65	64.0	EST	
LAUREL 2 E	83	78	81	81	81	82	94	92	94	96	85	90	89	89	85	85	75	78	77	83	86	85	85	82	86	92	91	89	86	81	85.4	2400
STOUDT	65	57	61	68	66	66	72	72	78	74	70	66	67	71	70	63	60	57	57	61	67	68	64	61	63	72	72	70	71	66	66.5	EST
OWINGS MILLS 2SE	83	79	83	82	84	83	96	93	96	97	86	91	90	90	85	85	75	77	75	83	86	86	86	81	87	89	92	89	87	83	86.0	2400
SHARROW	61	54	56	66	63	64	69	70	73	70	65	63	63	67	66	62	57	52	52	56	61	65	65	56	59	66	69	66	65	65	62.9	EDT
BALTIMORE 2SE	86	80	82	86	82	83	99	96	97	99	88	90	89	92	88	89	79	80	77	85	87	87	89	84	89	94	95	92	90	86	88.0	1800
MANFRE	68	61	64	68	67	68	73	77	82	73	73	74	73	73	70	67	64	60	59	64	69	70	72	64	69	72	72	73	74	70	69.4	EDT
BALT INNER HARBOR	86	80	82	86	81	82	99	96	98	99	88	90	88	92	86	89	79	80	77	85	87	85	89	84	89	92	95	92	90	85	87.7	2400
MD SCIENCE CENTER	68	61	64	68	67	67	73	77	82	73	73	73	73	73	70	67	64	60	59	64	69	69	69	63	69	72	72	73	74	70	69.2	EST
MANCHESTER 1SW	79	76	79	78	84	82	91	91	91	92	82	86	85	88	84	81	73	74	73	79	83	84	83	79	83	87	87	86	85	80	82.8	2300
CLOSE	64	53	63	64	64	63	71	74	73	68	65	67	64	68	66	60	56	55	50	59	61	63	59	55	62	67	70	67	67	65	63.4	EDT
WESTMINSTER 4 SSE	82	74	82	84	87	83	91	92	92	95	87	86	90	92	86	82	78	74	74	82	85	86	85	80	86	89	92	91	86	82	85.2	1900
HARTSOCK	60	50	59	69	63	63	67	70	73	69	61	60	61	68	64	58	57	50	48	54	58	68	64	55	57	66	68	65	66	65	61.9	EDT
WESTMINSTER 5 SSE	77	72	77	79	80	79	89	91	90	91	79	85	85	87	80	81	73	74	73	78	81	81	81	78	82	85	86	84	84	81	81.4	2200
KLEIN	60	51	59	63	63	62	66	70	73	65	63	65	63	66	64	61	57	53	51	57	58	63	63	55	60	67	67	65	65	65	62.0	EDT
MILLERS 4NE	79	75	78	77	82	83	91	90	91	91	82	85	85	86	82	81	72	73	72	77	83	83	82	78	82	86	87	85	84	81	82.1	1800
MILLER	59	51	57	63	63	62	68	70	73	67	65	61	62	67	65	59	56	49	48	51	56	62	63	57	57	66	66	65	64	64	61.2	EDT
WESTMINSTER CITY	81	77	80	80	84	85	96	93	94	95	84	88	90	88	84	81	78	76	76	82	84	85	84	82	84	88	90	88	86	83	84.9	1900
MULLER	61	53	59	66	65	65	70	73	73	70	66	62	66	70	66	63	60	52	51	53	62	66	66	58	62	70	70	67	68	67	64.0	EDT
BRYANS ROAD 2 ESE	87	82	81	87	91	84	98	95	96	97	87	91	89	91	86	88	79	81	79	83	82	86	87	83	88	93	93	92	87	86	87.6	2400
BRUMBACK	62	57	55	65	65	66	71	70	72	72	68	62	64	69	66	63	60	54	54	57	65	65	63	57	61	67	70	69	71	65	64.2	EDT
EMMITSBURG 2 SE	79	80	75	80	76	84	81	91	91	91	84	87	86	85	82	78	72	75	72	78	83	83	82	78	82	85	90	90	84	82.5	0630	
GLASS	49	51	53	58	66	65	65	71	73	69	64	60	61	65	65	60	57	52	49	51	51	64	63	55	56	58	60	70	65	68	60.5	EDT

**ACON MD / DE / DC
JUNE 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	AVG	OBS TIME	
FREDERICK 3 WNW LAWRENCE																																	2300 EDT
EAGLE ROCK HARVEY	70	77	74	79	70	82	86	86	86	89	84	84	82	76	79	70	64	68	66	70	80	76	72	74	80	82	81	80	76	77.5	0800 EDT		
LAUREL JHU / APL GIANNOLA	83	78	80	85	87	84	97	95	95	98	85	91	88	91	84	84	74	78	76	83	87	85	85	81	86	90	90	91	88	81	86.0	2400 EDT	
POTOMAC 4N COHEN	81	77	81	84	87	85	95	94	95	95	86	89	88	88	84	83	74	77	76	82	85	84	84	81	85	90	90	89	86	82	85.2	2100 EDT	
OLNEY 1 S GIANNOLA	81	78	79	81	85	83	94	93	94	94	85	88	86	88	84	82	73	77	74	81	>	>	>	>	>	>	>	92	85	78	84.1	2400 EDT	
CLARKSBURG 2ENE HOLDEN	82	76	80	82	85	84	94	93	93	94	83	87	86	86	82	81	73	75	73	81	83	84	82	79	83	88	88	88	85	79	83.6	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW	87	80	84	86	90	88	99	98	99	100	89	94	91	93	87	86	77	79	76	85	89	89	89	83	89	94	95	93	90	84	88.8	2400 EDT	
GLENMONT 1NNE ROSSEN	85	79	82	86	89	87	96	96	97	98	85	91	90	90	85	86	74	78	74	84	88	86	86	86	82	87	90	91	91	89	80	86.7	2400 EST
BETHESDA SCAFIDE	82	76	79	82	85	82	93	92	93	94	83	88	86	86	83	84	74	76	74	79	83	82	82	79	83	89	89	86	84	80	83.6	2400 EDT	
GAITHERSBURG 2WNW SHAW	80	79	79	79	86	84	92	91	90	92	86	92	88	87	87	82	73	76	75	85	89	88	86	84	88	94	91	91	84	84	85.4	2400 EDT	
FOREST GLEN TERRY	86	82	82	86	91	88	98	96	97	98	88	92	89	91	85	86	77	80	77	84	88	88	88	85	87	94	92	92	89	84	88.0	2400 EDT	
OXON HILL SMITH	85	81	82	87	90	87	98	95	96	97	89	92	89	90	87	87	78	81	78	84	87	86	86	84	87	93	92	92	88	85	87.8	2300 EDT	
HOLLYWOOD ABELL	85	78	79	87	84	82	96	94	95	96	84	89	87	91	85	86	78	77	77	81	85	84	84	81	85	89	90	92	87	85	85.8	2359 EDT	
RIDGE ZYLA	83	75	80	86	81	80	89	94	95	97	83	89	84	89	84	87	82	80	76	82	83	83	85	82	83	92	92	92	91	80	85.3	2400 EDT	
SMITHSBURG 1.5 SW HUTTO	81	79	82	76	89	90	94	94	95	94	86	90	89	87	85	79	71	75	75	80	86	85	84	80	84	88	85	88	84	81	84.5	2400 EDT	
HAGERSTOWN 1E KEEFER	81	78	81	76	87	88	95	95	96	93	85	89	89	87	85	79	72	77	74	83	86	86	84	82	85	90	88	89	85	82	84.9	2400 EDT	
SMITHSBURG 2 NE VAUGHN	79	77	79	75	86	88	93	92	92	90	84	88	86	85	82	77	71	72	72	78	83	82	81	82	87	90	89	89	89	85	83.4	2400 EDT	
SALISBURY NWS WICOMICO CO APT	84	77	81	85	79	85	97	94	95	97	87	90	85	90	85	89	82	78	77	83	86	86	85	82	86	92	91	92	91	86	86.6	2400 EDT	
WASH NATIONAL NWS ASOS	86	80	81	84	87	84	98	96	96	96	88	91	87	89	86	87	79	81	77	83	85	85	86	84	87	94	94	92	89	85	87.2	2400 EST	
WASH DULLES NWS ASOS	83	78	82	85	87	84	95	94	95	85	90	87	88	84	84	76	78	75	81	84	85	84	82	85	92	90	91	88	82	85.6	2400 EST		
STERLING 4 N SHAFFER	81	76	80	83	87	82	92	92	94	94	83	87	86	88	83	82	75	76	73	78	83	83	84	79	84	90	90	90	86	81	84.1	2400 EDT	
DAVIS 3 SE WV LESHER	65	64	68	73	67	79	83	82	81	83	79	77	80	77	72	72	69	57	63	62	68	72	73	69	68	74	77	74	77	73	72.6	0700 EDT	

**ACON MD / DE / DC
JUNE 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	TOTAL	OBS TIME					
BEAR 2 SW, DE GALLAHER	T		0.15	2.19	0.01					0.23				T	T	T	T	0.23	0.01				0.01			T	0.49	0.03			3.35 0.0	2400 EDT					
WILMINGTON , DE NWS NEW CASTLE CO APT			0.51	1.71	T					0.07				0.08				0.11		T			T			T	0.23	T	T	T	2.71 0.0	2400 EST					
NEWARK AG FARM, DE U OF DE DEOS			0.14	1.68	0.01					0.04				0.13	0.01			0.15									0.13	0.16	0.01	0.03	2.49	2400 EDT					
TOWNSEND 4 W, DE U of DE REC DEOS			0.24	1.42						0.11						0.04		0.03									0.34			0.09	2.27	2400 EDT					
GEORGETOWN, DE NWS SUSSEX CO APT	0.15		0.19	0.64	0.01						0.01			0.01	0.04	0.03	0.04	0.03							0.02	T	0.15			T	0.25	0.05	1.62 -	2400 EST			
GEORGETOWN, DE U of DE REC DEOS	0.68		0.16	1.13	0.01									0.06	0.04	0.24	0.05	0.12	0.04							0.04	0.06	0.14			0.01	0.12	0.16	3.06	2400 EDT		
HARBESON 8 S, DE U of DE REC DEOS	0.05		0.13	0.98										0.01	0.02	0.28	0.02	0.19	0.02							0.01	0.02	0.08			0.03	0.03	1.87	2400 EDT			
FROSTBURG LATTA	1.33			0.34	0.72	0.10					0.25			1.98	0.49		0.43		0.03						0.08	0.57	0.04	0.11		0.01	0.15		0.25	0.37	7.25 0.0	0700 EDT	
LAVALE MULLINS**			0.29	0.95	0.03					T			0.06	0.53		0.26	0.04				0.06	0.51	0.07	0.05			T	0.15	0.08	0.47			3.55 0.0	2400 EDT			
PASADENA 2N HANSON	0.06		0.50	0.68	0.01		0.53			0.05						0.31	0.01										0.03	0.05			0.59	0.04	0.02	0.04	2.92 0.0	2400 EDT	
LOTHIAN JUG BAY	1.37	0.01	>	1.20	1.10	0.01		0.18			0.07			>	0.07		0.81		0.01												1.20	0.09			6.73 0.0	0900 EDT	
BWI NWS ASOS	0.17		0.78	0.84			0.38			0.10				0.20		0.34	T	T								T	0.01				T	0.85	T	T	0.03	3.70 0.0	2400 EST
LAUREL 2 E STOUDT	0.16		0.39	1.07			0.50			0.07				>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	1.24		0.14			3.57 0.0	2400 EST	
OWINGS MILLS 2SE SHARROW	0.04		0.04	0.67						0.16				T		0.20		T										0.08	0.16	0.04	T			1.39 0.0	2400 EDT		
BALTIMORE 2SE MANFRE			1.20	0.80			T			0.13				0.18		0.22	T										T	0.02			0.69	0.02	0.50	0.01	3.77 0.0	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER			1.15	0.77						0.13				0.07		0.24												0.01			0.53	0.02	0.34	0.01	3.27 -	2400 EST	
MANCHESTER 1SW CLOSE	0.07		1.29	0.40	0.01	0.01				0.27					0.02	0.04	0.03	0.09			0.02						T	0.08			0.10	0.10	T	0.02	2.55 0.0	2300 EDT	
WESTMINSTER 4 SSE HARTSOCK	0.45			0.94	0.02	0.04				0.50	0.43			0.02	0.04	0.24		0.03							0.04				0.18		0.09	0.06			3.08 0.0	1900 EDT	
WESTMINSTER 5 SSE KLEIN	0.41		0.15	0.88	0.02					0.75				0.05		0.24	0.06	0.03										0.03			0.20	0.08		0.07	2.97 0.0	2200 EDT	
MILLERS 4NE MILLER	T			1.85	0.02	T		0.01		T	0.14				0.02	0.03	0.03	T	0.09	0.01	0.01						T	0.12			0.26	T	0.19		2.78 0.0	1800 EDT	
WESTMINSTER CITY MULLER	0.04		0.02	0.91		T				0.35				0.07		0.16		0.13										0.13			0.22		0.11	0.02	2.16 0.0	1900 EST	
BRYANS ROAD 2 ESE BRUMBACK	T		1.32	1.20	0.01		0.15							0.34		0.41	0.08		0.01	0.01	0.03	0.22	0.39	0.01				0.01					0.09		4.28 0.0	2400 EDT	
EMMITSBURG 2 SE GLASS	0.30	T		1.28	0.21	0.01		0.02			0.03				0.13		0.07		0.02		0.09										0.20	0.15	0.02		2.90 0.0	0630 EDT	

**ACON MD / DE / DC
JUNE 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	TOTAL	OBS TIME
FREDERICK 3 WNW LAWRENCE																																2300 EDT
EAGLE ROCK HARVEY	1.90	0.30		0.75	0.30									0.61	0.72	0.01	0.86		T	0.02	T	1.15		0.05		T	0.08	0.07	0.77	0.37	7.96 0.0	0800 EDT
LAUREL JHU / APL GIANNOLA	0.14		0.24	0.65			0.35			0.20				0.42		0.24	0.01										0.65	0.13	0.08	0.12	3.23 0.0	2400 EDT
POTOMAC 4N COHEN	0.07		0.26	0.96			0.12			T				0.59		0.41	0.08	0.21						0.21	0.03		1.10			0.56	4.60 0.0	2100 EDT
OLNEY 1 S GIANNOLA	0.04		>	1.63	0.01		0.58			0.06				0.35		0.32	0.01	0.01			>	>	>	>	>	>	>	0.69	0.23	0.28	4.21 0.0	2400 EDT
CLARKSBURG 2ENE HOLDEN	0.01		0.39	0.77		0.01	0.32			0.59				0.42		0.55	0.01					T	0.04			0.72	0.31	0.03	0.05	4.22 0.0	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW	0.06		0.29	1.12			0.06			0.09				0.27		0.36								0.08			0.17	0.05	0.23		2.78 0.0	2400 EDT
GLENMONT 1NNE ROSSEN	0.18		0.29	0.87			0.03			0.27				0.09		0.49		0.19			T	T	0.15			0.56	0.08	0.03	0.14	3.37 0.0	2400 EST	
BETHESDA SCAFIDE			0.11	1.37			0.58	0.01		0.01				0.14		0.44	0.06	0.11					0.09	0.48			1.00	0.03	0.30	0.26	4.99 -	2400 EDT
GAITHERSBURG 2WNW SHAW	0.13		0.30	1.65			0.19			0.21				0.29		0.68		0.01						0.03			0.68	0.07	0.28	0.10	4.62 0.0	2400 EDT
FOREST GLEN TERRY	T		0.22	1.36			0.25			0.30				0.20		0.52	0.04	0.12				0.01	0.30			1.00	0.02	0.04	0.11	4.49 0.0	2400 EDT	
OXON HILL SMITH	0.02		1.03	1.62			0.31			0.24				0.21		0.94		0.09			0.12	0.65	0.09			1.45	0.64		0.80	8.21 0.0	2300 EDT	
HOLLYWOOD ABELL	0.27		0.62	2.72	0.05		0.07			0.11	0.04			1.01		0.27	0.42	0.08			0.02	2.06				0.02		0.04	0.43	8.23 0.0	2359 EDT	
RIDGE ZYLA	0.61		1.50	1.93			0.95			0.63					1.08	0.51			0.28		0.08	0.58	0.57						0.10	1.00	9.82 0.0	2400 EDT
SMITHSBURG 1.5 SW HUTTO			0.18	0.28	0.01					0.05				0.72		0.11	0.01	0.06		0.49			0.38	0.01		T	0.94	0.85	0.03	0.03	4.15 0.0	2400 EDT
HAGERSTOWN 1E KEEFER	0.21		0.16	0.40						0.08				0.22		0.12		0.08		0.13		T	0.34			T	0.81	0.73	0.02	0.07	3.37 0.0	2400 EDT
SMITHSBURG 2 NE VAUGHN	0.06		0.20	0.35						0.01				0.74	0.01	0.10		0.04		0.16			1.16			0.79	0.44	0.03	0.01	4.10 0.0	2400 EDT	
SALISBURY NWS WICOMICO CO APT	0.13		0.23	1.70	T				T		T			0.11	T	0.37	0.08	0.03			0.06	0.01	1.06	0.02					0.65	4.45 0.0	2400 EDT	
WASH NATIONAL NWS ASOS			0.79	1.49			0.15			0.33				0.13		0.88		T	T		0.08	0.06	0.14			0.09	0.50		0.16	4.80 0.0	2400 EST	
WASH DULLES NWS ASOS	0.01		0.40	1.63		T	0.02			0.05				0.41		0.97		0.06	T	T	0.01	T	0.38			T	0.01	0.10	0.16	4.21 0.0	2400 EST	
STERLING 4 N SHAFFER			0.17	1.09		0.01	0.01			0.02				0.32		0.50		0.08	T	0.01		0.01	0.07			0.24	0.01	0.06	0.36	2.96 0.0	2400 EDT	
DAVIS 3 SE WV LESHER	2.56	0.20		2.12	0.61						0.13			0.17	0.31	T	2.24		0.01	0.18	0.10	1.73	0.01	T				0.70	0.26	11.33 0.0	0700 EDT	