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

DRY MONTH WITH ISOLATED HEAVY THUNDERSTORMS, ONE TORNADO, & ONE FUNNEL CLOUD

July 2007 brought with it pleasant cool weather, hot humid weather, dry conditions which caused the Maryland Governor to declare a drought disaster, and isolated heavy thunderstorms.

The month began on a very cool pleasant note. Minimum temperatures were in the 40's and 50's while maximum temperatures ranged from the mid 70's to lower 80's on the 1st to the 3rd. **Rebecca Harvey** of **Eagle Rock** reported 42° on the 2nd. 43° was reported at Salisbury Wicomico County Airport by the NWS on the 3rd.

The first round of thunderstorms occurred on the Fourth of July. The National Mall in Washington DC was evacuated due to approaching severe weather. **Joe Terry** of **Forest Glen** observed his first tornado while visiting family in Laytonsville, MD. He reported that he saw a funnel cloud to the NE (light funnel against a very dark background sky that highlighted it very well) moving towards Olney. It had sharp boundaries and was tilted at a rather steep angle. Rainfall amounts from the 4th to 6th ranged from less than a quarter inch to over 2". **Dave Leshner** of **Davis 3 SE WV** reported 2.83" and **Rebecca Harvey** of **Eagle Rock** 1.87".

The second week of the month was the hottest. Temperatures rose well into the 90's and even broke 100° at a few locations. 101° was reported by the following ACON observers on the 9th: **Joe Manfre** of **Baltimore 2 SE**, **Marty Brumback** of **Bryans Road 2 ESE**, and 100° by **Dan Hanson** of **Pasadena 3 SW**, **David Roth** of **Montgomery Village 1 SW**, and **Kevin Shaw** of **Gaithersburg 2 WNW**.

This heat wave ended with afternoon thunderstorms which brought heavy rains to some areas on the afternoon of the 10th. **Joe Manfre** of **Baltimore 2 SE** reported hail. Scattered thunderstorms with heavy rain brought

over an inch of rain to portions of New Castle County DE (**Gary Gallaher** of **Bear 2 SW DE** 1.41"), Anne Arundel County (**Jeff Stoudt** of **Laurel 2 E** 1.84"), and Montgomery County (**Stan Rossen** of **Glenmont 1 NNE** 1.29").

Temperatures on the 11th were around 90, from the 12th to the 15th mid to upper 80's and from the 15th to 19th upper 80's to mid 90's. Scattered thunderstorms the afternoon of the 16th brought light rains of less than a tenth of an inch to some areas. An EF1 tornado touched down near Fallston, Harford County MD, causing some tree and property damage.



300 Block Old Jappa Road ©Baltimore Sun
Tornado report from Sterling NWS:
A TORNADO TOUCHED DOWN NEAR FALLSTON MONDAY AFTERNOON. NWS DAMAGE SURVEY SUGGESTS THIS TORNADO WAS AN EF1 INTENSITY ON THE ENHANCED FUJITA SCALE. MAXIMUM PATH WIDTH WAS 150 YARDS AND THE LENGTH APPROXIMATELY 4 MILES LONG. EXTENSIVE DAMAGE TO TREES INCLUDING SOME SOFTWOOD TREES SNAPPED AND MANY HARDWOODS TOPPLED. STRUCTURAL DAMAGE OBSERVED WAS LIMITED TO TREES AND LIMBS FALLING ONTO STRUCTURES. MANY POWERLINES WERE ALSO DOWNED. NO INJURIES WERE REPORTED. EVENT TIME APPROXIMATELY 615-627 PM.

Cooler, more pleasant weather returned from the 20th to the 25th. Maximum temperatures were mid 70's to mid 80s in the northern regions and in the 80's in the southern regions.

The last period of thunderstorms

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Baltimore 2 SE	101
Bryans Road 2 ESE	101
Pasadena 3 SW	100
Mont. Village 1 SW	100
Gaithersburg 2 WNW	100

MINIMUM TEMPERATURE

Eagle Rock	40
Davis 3 SE WV	46
Frostburg	47

WARMEST AVG. TEMP.

Baltimore 2 SE	82.8
Ridge	79.3
Oxon Hill	79.0

COLDEST AVG. TEMP.

Davis 3 SE WV	63.0
Eagle Rock	65.9
Frostburg	66.9

MAXIMUM PRECIPITATION

Davis 3 SE WV	7.10
Bear 2 SW DE	6.33
Eagle Rock	4.46

MINIMUM PRECIPITATION

Ridge	0.23
Jug Bay Wetlands	0.40
Mont. Village 1 SW	0.53

occurred from the 27th to the 30th. Isolated amounts of over an inch fell. **Gary Gallaher** of **Bear 2 SW DE** reported 3.02", **UofD Harbeson** 8 S DE 2.71" **Greg Keefer** of **Hagerstown 1 E** 2.11" , and **Marty Brumback** of **Bryans Road 2 ESE** 1.21". Severe thunderstorms with hail were reported by **Greg Keefer** of **Hagerstown 1 E** on the 28th and by **Brian Smith** of **Oxon Hill** on the 29th.

The month ended sunny and bright with afternoon temperatures ranging from the mid 80's to the lower 90's.

OBSERVER COMMENTS FOR JULY 2007

Gary Gallaher of Bear 2 SW, DE

Cool, wet month. Much needed rains came at weekly intervals but yards still browned. 3 days with minimum temperature in the 70's tied for the least set in 1976 and tied in 1978 & 2004.

2nd - 49 degrees - Only the second sub 50° reading in July in 41 years of records.

30th - Heavy thunderstorm: 2.01" of rain fell from 2:44 to 3:22 PM.

Greg Latta of Frostburg

2nd - 47 degrees - Beautiful morning!

Nate Mullins of LaVale

5th - Heavy rain and thunderstorms 4 to 6 PM. 0.64" of rain.

29th - Thunderstorms after midnight. Parts of the county south and east had 3+ inches of rain and flash flooding.

Jeff Stoudt of Laurel 2 E

Heat, humidity, and brief cooler periods this month were typical for July. Although thunderstorms were in the area on numerous days, their torrents of rain were isolated to scattered.

10th - 0.90" of rain in 30 minutes ending at 1:20 PM EDT along with brief gusts approaching damaging force. After a brief lull, an encore brought an additional 0.50" before 2 PM.

Al Kreinik of Parkton 5 SW

Lack of rain affecting crops. Corn in bad shape.

10th - Thunderstorm late afternoon.

19th - Occasional late PM showers, lightning, no thunder heard.

Marty Sharrow of Owings Mills

10th - 96 degrees - Mix of clouds and sun. Hot and humid.

Joe Manfre of Baltimore 2SE

9th - Very hot 101°, moderate humidity.

10th - PM thunderstorm with hail.

17th - Hot 96°, low humidity.

Ralph Hartsock of Westminster 4 SSE

Extremely dry - crop losses. 0.75" out of the month total of 0.97" fell between the 4th and the 6th.

4th - Tornado watch. Overnight shower, scattered late storms.

Bobby Miller of Millers 4 NE

Third consecutive month with less than 2" of rain for the first time since October to December 2001. Crops in poor condition.

Rebecca Harvey of Eagle Rock

Thunder reported on 15 days.

Rob Cohen of Potomac 4 N

29th - Thunder 6 AM, and occasionally 2 - 6 PM.

Rich Giannola of Laurel 1 S

3rd & 4th - Showers began at 10:45 PM on the 3rd and ended by dawn on the 4th. Showers and thundershowers ~ 3 PM to after 9 PM on the 4th.

Kevin Shaw of Gaithersburg 2 WNW

July was warm and dry. Temperatures were a bit above normal mostly due to warm maximum temperatures highlighted by the 100 maximum on the 9th..This was the third driest July in 29 years. The driest was in 1997 when 0.63" of rain fell.

4th - Tornado watch. Funnel cloud sighted by a friend and several others in Laytonsville, Damascus, and Olney, within 10 miles of my house. Only minor storm damage was reported.

9th - 100° today set a daily record. This was the 6th 100° temperature for July since 1979.

Joe Terry of Forest Glen

Many hot days but also many relatively cool nights resulting in a large average temperature spread between min and max temperatures. A few very pleasant spells with exceptionally low humidity. Very dry conditions despite 8 thunderstorm days.

1st & 2nd - Gorgeous weather! Can't get much better for July. Deep blue skies and dew points as low as 45°.

29th - So much thunder but so little rain. Hours of incessant thunder AM and PM, yet only 0.27" of rain fell, mostly light.

Brian Smith of Oxon Hill

29th - Severe electrical storm 1241 to 1350 hours. 1/2" hail 1337 to 1340 hours. Large tree limb down 100 feet south of site.

Floyd Abell of Hollywood

Driest July on record, - precipitation total 0.57".

19th - Fair, then strong afternoon thunderstorm with a peak wind gust 52 MPH and 0.45" of rain.

John Zyla of Ridge

Driest July on record - precipitation total 0.23". This was the driest July for any St. Mary's County station going back as far as we have records (1861).

Max Hutto of Smithsburg 1.5 SW

28th - Hazy, hot, humid. Nearby intense thunderstorms.

Greg Keefer of Hagerstown 1 E

2nd - Don't get many days like this in July. Sunny high 76° along with low humidity.

9th - Mostly sunny, very hot high 97°. Slight increase in humidity.

28th - Intense wild thunderstorm developed overhead this evening between 9 & 10 PM. The storm was slow moving and quickly turned into a severe type storm with frequent continuous lightning and very heavy rain. 1.64" of rainfall, most of it fell in about 20 minutes. 0.66" fell in 5 minutes. Small hail occurred along with a PWG of 36 MPH.

Jim Vaughn of Smithsburg 2 NE

The last time an inch of rain fell in any 24 hour period was April 15th, 111 days ago. Second driest July on record. Driest 1.34" set in 1983.

Lance Shaffer of Sterling 4 N VA

3rd - Awesome weather! Max 77 degrees..

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 2007 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>New Castle, Delaware</i>																								
Gallaher, Gary	Bear 2 SW	85.1	64.0	74.6	95	9+	49	2	6	0	0	37	W	27	6.33	2.01	30	30.51	12	2	0.0	0.0	0.0	2400
NWS Wilmington	New Castle Co. Apt.	86.4	66.7	76.6	96	9	53	3	6	0	0	35	WNW+	23+	3.15	0.73	30	25.51	12	0	0.0	0.0	0.0	2400
U of DE DEOS	UofD AG Farm Newark, DE	86.1	65.5	75.8	97	9+	53	3	8	0	0	19		23	3.81	0.93	19	25.29	15	0				2400
U of D Townsend Farm	Townsend 4 W	84.1	64.0	74.1	95	10	50	3	2	0	0	32		16	1.69	0.57	10	15.91	8	0				2400
<i>Sussex, Delaware</i>																								
NWS Georgetown	Sussex Co. Airport	87.2	65.7	76.5	97	9	53	3	11	0	0	33	NW	10	1.68	0.74	10	19.11	8	0				2400
U of D Research & Ed Ctr	Georgetown	86.9	65.6	76.3	96	9	52	3	10	0	0				1.72	0.99	29	17.22	5	0	0.0	0.0	0.0	2400
U of D Warrington Farm	Harbeson 8 S	85.4	65.1	75.3	97	9	50	3	8	0	0	30		28	2.95	1.62	30	15.81	5	1				2400
<i>Allegany, Maryland</i>																								
Latta, Greg	Frostburg	76.9	56.8	66.9	87	10	47	2	0	0	0				4.21	1.12	12	23.37	11	2	0.0	0.0	0.0	0700
Mullins, Nate**	LaVale	83.3	60.5	71.9	93	10	49	2	3	0	0				3.21	0.85	25	18.83	11	0	0.0	0.0	0.0	2400
<i>Anne Arundel, Maryland</i>																								
Hanson, Dan	Pasadena 3 SW	89.5	66.0	77.8	100	9	52	3	16	0	0	26	SSW	5	1.20	0.40	27		9	0	0.0	0.0	0.0	2400
Jug Bay Wetlands	Lothian	89.5	64.2	76.9	98	10+	52	2+	12	0	0				0.40	0.15	30	18.92	6	0	0.0	0.0	0.0	0900
NWS Baltimore	BWI Airport	87.5	66.3	76.9	97	9	54	3	10	0	0	47	SSW	4	3.31	1.84	10	20.14	8	1	0.0	0.0	0.0	2400
Stoudt, Jeff	Laurel 2 E	87.4	67.0	77.2	97	9	57	3	12	0	0				2.72	1.40	10	20.12	13	1	0.0	0.0	0.0	2400
<i>Baltimore, Maryland</i>																								
Kreinik, Al	Parkton 5 SW	86.2	62.3	74.3	96	10	48	13+	10	0	0				1.32	0.38	19	20.45	10	0	0.0	0.0	0.0	2200
Sharrow, Marty	Owings Mills 2 SE	85.9	65.0	75.5	96	10	54	2+	7	0	0				0.71	0.55	4	15.42	3	0	0.0	0.0	0.0	2400
<i>Baltimore City, Maryland</i>																								
Manfre, Joe	Baltimore 2 SE	91.0	74.6	82.8	101	9	66	2	19	0	0				1.30	0.67	4	17.99	8	0	0.0	0.0	0.0	1800
Maryland Science Ctr	Baltimore Inner Harbor	91.1	74.1	82.6	101	9	65	2	18	0	0				2.02	0.86	4	17.53	11	0				2400
<i>Carroll, Maryland</i>																								
Close Jr, Herb	Manchester 1 SW	84.4	65.0	74.7	93	9	54	2	5	0	0				2.15	0.72	19	22.78	10	0	0.0	0.0	0.0	2300
Hartsock, Ralph	Westminster 4 SSE	86.0	62.1	74.1	93	15	50	3	10	0	0				0.97	0.42	4	<u>22.36</u>	8	0	0.0	0.0	0.0	2000
Klein, Greg	Westminster 5 SSE	83.1	62.9	73.0	91	10	53	2	2	0	0				1.10	0.50	4	21.62	6	0	0.0	0.0	0.0	2200
Miller, Bobby	Millers 4 NE	83.8	61.5	72.7	93	9	50	3	5	0	0	30	NNW	7	1.71	0.59	10	21.25	14	0	0.0	0.0	0.0	1800
Muller, Ray	Westminster City	86.4	65.0	75.7	96	9	53	2	7	0	0	30	W	4	1.16	0.39	4	21.00	9	0	0.0	0.0	0.0	1900
<i>Charles, Maryland</i>																								
Brumback, Marty	Bryans Road 2 ESE	90.2	66.4	78.3	101	9	55	3	16	0	0	30		29	1.55	1.18	29	16.76	9	1	0.0	0.0	0.0	2400
<i>Frederick, Maryland</i>																								
Glass, Eric	Emmitsburg 2 SE	85.3	61.0	73.2	95	10	51	3	5	0	0				1.33	1.04	29	15.94	6	1	0.0	0.0	0.0	0700
Lawrence, Bryon	Frederick 3 WNW	88.2	61.8	75.0	98	9	51	2	12	0	0				2.66	1.72	28	<u>5.36</u>	8	1	0.0	0.0	0.0	2300
<i>Garrett, Maryland</i>																								
Harvey, Rebecca	Eagle Rock	76.5	55.3	65.9	89	11	40	2	0	0	0				4.46	1.20	6	27.85	13	1	0.0	0.0	0.0	0800

**ACON MD / DE / DC
JULY 2007 SUMMARY**

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		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	86.8	66.5	76.7	97	9	55	2	9	0	0	41	SW	4	1.36	0.53	4	17.20	9	0	0.0	0.0	0.0	2400
<i>Montgomery, Maryland</i>																								
Cohen, Rob	Potomac 4 N	87.1	66.2	76.7	95	9	56	3	11	0	0				2.10	0.54	4	18.95	8	0	0.0	0.0	0.0	2100
Giannola, Rich	Olney 1 S	85.9	65.9	75.9	96	9	57	2+	6	0	0				1.81	1.10	3-4	20.31	7	1	0.0	0.0	0.0	2400
Roth, David	Montgomery Village 1SW	89.6	66.7	78.2	100	9	57	2	16	0	0	13		20	0.53	0.25	4	16.98	6	0	0.0	0.0	0.0	2400
Rossen, Stan	Glenmont 1 NNE	87.1	64.8	76.0	98	9	55	2+	9	0	0	11		10	2.57	1.29	10	19.86	13	1	0.0	0.0	0.0	2400
Scafide, Tony	Bethesda	84.2	66.4	75.3	93	9	57	2	3	0	0	12		1	0.92	0.32	27	14.95	9	0				2400
Shaw, Kevin	Gaithersburg 2 WNW	89.0	65.1	77.1	100	9	55	2	14	0	0				0.93	0.38	30	18.92	7	0	0.0	0.0	0.0	2400
Terry, Joe	Forest Glen	89.5	65.6	77.6	98	9	54	2	13	0	0	22	WSW	5	0.95	0.27	29	20.49	8	0	0.0	0.0	0.0	2400
Wash Gas Light	Rockville 1 NE	87.8	66.6	77.2	99	9	57	3	11	0	0				1.56	0.66	29	15.96	4	0	0.0	0.0	0.0	2400
<i>Prince Georges, Maryland</i>																								
Smith, Brian	Oxon Hill	89.5	68.5	79.0	99	9	58	3	15	0	0				1.64	1.09	29	19.14	6	1	0.0	0.0	0.0	2300
<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	89.0	67.9	78.5	98	9	54	3	13	0	0	52		19	0.57	0.45	19	20.87	3	0	0.0	0.0	0.0	2400
Zyla, John	Ridge	88.4	70.1	79.3	98	19	61	3	14	0	0	28	NW	19	0.23	0.13	29	18.94	5	0	0.0	0.0	0.0	2400
<i>Washington, Maryland</i>																								
Hutto, Max	Smithsburg 1.5 SW	86.5	60.6	73.6	97	9	48	2	9	0	0	22	NW	20	1.41	0.70	28	19.39	7	0	0.0	0.0	0.0	2400
Keefer, Greg	Hagerstown 1 E	86.5	63.3	74.9	97	9	52	2	10	0	0	36	S	28	2.34	1.64	28	19.75	7	1	0.0	0.0	0.0	2400
Vaughn, Jim	Smithsburg 2 NE	83.8	64.0	73.9	94	9	53	2	3	0	0	49	NW	20	1.56	0.64	28	17.51	8	0	0.0	0.0	0.0	2400
<i>Wicomico, Maryland</i>																								
NWS Salisbury	Wicomico Co. Apt	88.2	61.4	74.8	98	9	43	3	14	0	0	31	NW	23	5.49	3.86	29	23.30	7	2	0.0	0.0	0.0	2400
<i>Arlington, Virginia</i>																								
NWS Washington National	National Airport	88.8	69.7	79.3	98	9+	62	2	14	0	0	45	E	19	2.40	0.98	29	17.57	9	0	0.0	0.0	0.0	2400
<i>Loudon, Virginia</i>																								
NWS Washington Dulles	Dulles Airport	88.8	65.7	77.3	97	9	55	3	13	0	0	40	WNW	1	1.75	0.74	4	15.97	7	0	0.0	0.0	0.0	2400
Shaffer, Lance	Sterling 4 N	86.3	66.6	76.5	95	9	56	2	10	0	0				1.47	0.46	29	16.69	10	0	0.0	0.0	0.0	2400
<i>Tucker, West Virginia</i>																								
Leshner, Dave	Davis 3 SE WV	71.5	54.4	63.0	82	10	46	2	0	0	0				7.10	2.04	6	42.29	14	1	0.0	0.0	0.0	0700
SECTION AVERAGE*		86.6	65.0	75.8											2.01		20.04				0.0		0.0	

NOTES:

M OR UNDERLINE = MISSING DATA

> = INCLUDED IN NEXT DAYS DATA

ITALIC = ESTIMATED DATA

*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.

**OBSERVERS FOR LAVALLE ARE DAVID DREWERY AND CHARLES ORLICK. DATA COMPILED BY NATE MULLINS.

National Weather Service station data listed herein is preliminary and may be subject to change. The data has not been certified and cannot be used in legal actions.
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 1/2/08

**ACON MD / DE / DC
JULY 2007 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	77	76	81	80	83	86	88	92	95	95	88	82	83	85	91	87	91	88	87	80	82	82	74	83	84	87	89	90	80	85	87	85.1	2400
GALLAHER	56	49	50	61	70	66	60	62	67	71	69	64	62	64	67	69	66	71	68	67	60	62	57	54	62	69	68	68	69	68	67	64.0	EDT
WILMINGTON , DE	79	79	81	81	84	87	89	93	96	94	89	83	85	87	93	88	91	89	88	83	85	85	77	84	85	86	89	89	83	86	91	86.4	2400
NWS NEW CASTLE CO APT	58	54	53	63	71	68	62	65	71	75	74	67	67	72	71	68	73	70	64	60	64	63	57	67	71	71	70	72	71	69	66.7	EST	
NEWARK AG FARM, DE	76	75	83	82	84	85	88	93	97	97	90	81	84	87	94	88	91	89	88	80	84	84	74	85	85	88	92	90	81	84	89	86.1	2400
U OF DE DEOS	61	55	53	60	69	68	62	64	69	72	71	66	64	64	68	70	67	72	69	67	59	66	60	56	63	70	70	69	70	69	65.5	EST	
TOWNSEND 4 W, DE	76	75	79	79	80	84	87	89	91	95	87	80	82	84	89	89	89	85	88	79	82	82	76	85	83	86	89	88	80	83	88	84.1	2400
U of D DE Townsend Farm	58	52	50	60	70	67	61	63	68	72	71	66	63	60	71	67	68	71	68	63	57	61	56	53	60	66	69	68	69	69	67	64.0	EST
GEORGETOWN, DE	78	76	80	82	84	88	89	93	97	94	90	83	84	88	91	92	94	90	96	83	83	85	82	88	88	86	91	92	88	80	89	87.2	2400
NWS SUSSEX CO APT	59	55	53	62	73	67	65	68	72	73	72	65	66	61	67	70	68	73	72	65	60	60	62	59	60	67	68	67	69	72	68	65.7	EST
GEORGETOWN, DE	78	77	80	81	84	87	89	93	96	93	88	84	83	87	91	92	93	89	95	82	83	84	82	85	88	87	91	92	90	79	89	86.9	2400
UofD RESEARCH & ED CTR	60	55	52	62	73	69	64	69	73	74	71	65	66	60	68	71	69	74	72	63	60	58	63	59	60	66	67	65	69	70	68	65.6	EST
HARBESON 8 S, DE	74	74	78	80	84	87	89	93	97	94	92	83	85	88	92	92	88	92	96	82	81	79	81	85	84	82	86	82	86	77	86	85.4	2400
UofD WARRINGTON FARM	57	55	50	61	72	66	63	67	70	72	70	64	65	71	66	68	69	72	69	63	61	57	61	58	59	64	72	71	69	68	66	65.1	EST
FROSTBURG	75	71	73	74	77	72	76	79	83	87	86	74	73	73	78	81	79	82	77	78	78	72	76	75	74	73	77	76	83	74	78	76.9	0700
LATTA	54	47	49	55	59	60	57	57	59	64	65	52	54	53	54	61	55	57	65	56	52	52	54	53	52	56	61	61	63	64	61	56.8	EDT
LAVALE	75	79	80	80	80	82	88	92	92	93	84	82	77	85	87	88	89	86	84	78	81	82	80	79	80	82	80	85	80	84	89	83.3	2400
MULLINS**	53	49	53	60	67	63	59	59	62	65	68	55	57	55	60	64	57	68	67	62	55	54	55	56	60	63	64	64	67	68	66	60.5	EDT
PASADENA 3 SW	82	80	81	83	85	91	93	98	100	98	93	88	91	89	96	91	94	92	95	87	86	87	85	88	89	90	93	91	84	87	92	89.5	2400
HANSON	59	57	52	65	72	67	63	64	67	73	70	65	63	62	70	69	66	76	70	66	60	64	64	58	67	69	70	68	72	70	69	66.0	EDT
LOTHIAN	80	82	83	87	88	82	92	94	M	98	79	90	89	89	M	M	95	95	94	98	M	87	M	89	90	89	90	96	94	89	88	89.5	0900
JUG BAY	56	52	52	64	72	68	61	65	M	66	77	60	61	60	M	M	65	64	67	70	M	57	M	59	65	66	67	68	71	70	66	64.2	EDT
BALTIMORE	82	79	80	83	82	87	90	94	97	96	89	83	85	86	92	90	92	89	91	86	85	85	84	86	87	89	94	89	83	85	92	87.5	2400
NWS BWI APT	58	58	54	64	70	67	64	65	68	72	70	63	65	62	69	71	66	75	71	69	63	68	63	58	68	68	70	68	71	70	68	66.3	EST
LAUREL 2 E	78	79	82	84	84	89	90	93	97	95	87	84	86	85	92	90	92	89	92	85	85	83	83	85	88	92	93	91	83	83	91	87.4	2400
STOUDT	61	58	57	62	72	70	66	66	70	73	71	65	64	63	71	71	66	76	72	68	59	63	64	60	68	70	71	69	70	70	70	67.0	EST
PARKTON 5SW	78	75	79	82	82	87	90	93	94	96	90	84	85	84	91	85	90	87	88	81	83	83	79	84	86	88	92	90	84	94	89	86.2	2200
KREINIK	57	54	66	65	69	65	49	60	63	69	68	64	48	48	62	68	61	68	67	54	48	61	61	54	67	71	69	67	70	68	70	62.3	EDT
OWINGS MILLS 2SE	79	76	80	81	80	85	88	91	93	96	88	82	86	84	92	89	90	87	86	81	82	85	81	85	87	89	93	90	82	86	89	85.9	2400
SHARROW	59	54	54	62	65	67	63	64	67	79	69	62	63	60	66	70	65	72	69	68	59	63	63	56	66	68	70	67	70	66	68	65.0	EDT
BALTIMORE 2SE	84	81	83	87	86	91	94	98	101	97	95	88	87	91	95	95	96	94	96	87	87	89	87	90	92	92	94	92	86	91	94	91.0	1800
MANFRE	70	66	68	69	75	74	75	76	81	78	77	72	74	69	76	80	78	80	79	76	69	73	75	70	74	77	76	76	78	75	77	74.6	EDT
BALT INNER HARBOR	83	81	83	87	87	91	94	97	101	98	94	88	89	91	97	95	97	95	96	86	87	89	86	89	91	92	95	94	88	90	94	91.1	2400
MD SCIENCE CENTER	69	65	67	69	75	74	75	80	77	77	71	73	69	75	80	77	80	79	75	68	73	73	70	74	77	77	76	77	75	77	74.1	EST	
MANCHESTER 1SW	77	74	79	80	78	85	86	90	93	92	86	81	83	83	90	87	89	87	87	80	81	81	79	82	85	88	90	89	81	85	87	84.4	2300
CLOSE	58	54	59	62	69	66	64	72	72	71	70	59	65	60	67	68	64	72	70	66	58	64	61	57	64	68	68	67	67	65	68	65.0	EDT
WESTMINSTER 4 SSE	76	72	82	86	82	84	85	90	92	92	90	83	83	86	93	91	89	90	91	82	78	83	83	89	86	88	90	90	86	88	86	86.0	2000
HARTSOCK	55	51	50	60	67	65	62	59	65	66	66	59	58	56	66	68	60	70	67	69	54	63	60	52	63	64	68	67	66	64	66	62.1	EDT
WESTMINSTER 5 SSE	75	72	78	79	80	82	84	88	90	91	87	80	82	81	88	87	85	86	86	80	79	81	77	83	83	85	88	89	81	84	85	83.1	2200
KLEIN	57	53	55	58	65	65	64	65	69	69	67	59	61	58	65	68	63	69	67	65	56	63	62	55	62	65	66	64	66	64	66	62.9	EDT
MILLERS 4NE	78	74	76	79	78	84	87	91	93	92	84	80	81	82	90	85	88	86	84	78	81	82	77	82	85	88	90	88	85	85	86	83.8	1800
MILLER	56	52	50	61	66	64	60	58	63	68	67	59	57	55	64	66	62	68	64	66	54	62	61	51	63	66	66	63	67	64	64	61.5	EDT
WESTMINSTER CITY	78	79	77	81	80	89	88	93	96	93	91	82	85	84	90	89	88	88	89	84	82	83	84	83	86	89	92	88	86	90	90	86.4	1900
MULLER	57	53	56	64	69	66	63	64	68	70	71	61	63	60	68	70	64	73	70	69	58	64	65	58	66	69	69	66	66	65	70	65.0	EDT
BRYANS ROAD 2 ESE	84	82	81	88	81	90	94	99	101	96	90	88	86	89	96	93	97	93	96	87	86	87	87	88	86	92	94	94	91	89	93	90.2	2400
BRUMBACK	62	60	55	68	73	69	63	66	68	72	71	67	61	61	69	67	67	73	69	69	64	63	66	61	67	67	70	67	68	71	67	66.4	EDT
EMMITTSBURG 2 SE	80	79	75	M	80	80	86	88	92	95	92	84	82	82	85	91	89	90	87	87	81	82	83	81	86	86	89	89	89	84	84	85.3	0700
GLASS	56	54	51	M	54	67	60	59	62	64	69	59	63	55	60	68	59	62	68	68	54	60	63	52	54	63	65	65	68	64	64	61.0	EDT

**ACON MD / DE / DC
JULY 2007 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	81	79	81	82	80	88	89	95	98	95	88	86	84	89	93	93	95	89	91	82	85	83	85	90	90	94	95	92	86	87	89	88.2	2300
LAWRENCE	56	51	52	58	65	64	62	58	64	67	70	60	63	55	64	68	58	71	67	63	54	62	60	54	61	65	65	64	66	63	67	61.8	EDT
EAGLE ROCK	76	70	74	80	78	69	78	80	80	86	89	70	72	72	79	79	78	84	76	72	70	74	76	76	70	72	79	76	80	76	79	76.5	0800
HARVEY	46	42	48	58	62	40	56	60	64	64	66	48	54	52	62	60	54	59	64	52	48	48	50	52	50	54	59	59	62	62	60	55.3	EST
LAUREL JHU / APL	79	78	80	82	82	87	88	94	97	95	88	84	85	87	93	90	93	89	89	81	82	83	81	84	86	90	94	93	82	86	89	86.8	2400
GIANNOLA	61	55	56	63	71	68	67	65	70	73	70	64	63	62	71	71	68	75	73	67	60	64	65	59	67	69	70	68	70	69	69	66.5	EDT
POTOMAC 4N	81	78	80	85	78	86	88	93	95	93	88	84	83	86	92	91	91	91	90	85	85	85	86	87	86	92	92	89	84	86	90	87.1	2100
COHEN	58	57	56	65	68	68	63	64	67	72	70	63	62	63	69	69	66	74	70	65	63	66	68	62	68	68	71	69	69	70	69	66.2	EST
OLNEY 1 S	>	78	77	79	77	85	88	94	96	91	86	84	83	86	91	88	92	88	>	>	87	82	82	84	84	88	91	89	81	>	89	85.9	2400
GIANNOLA	>	57	57	62	68	67	64	66	69	73	72	63	63	61	69	70	64	74	>	>	59	62	65	61	66	70	71	67	70	>	68	65.9	EDT
MONTGOMERY VILLAGE	86	80	80	83	84	90	93	97	100	98	91	87	89	91	96	93	94	92	91	84	86	87	86	89	88	93	95	94	83	88	92	89.6	2400
ROTH 1SW	60	57	58	62	69	68	66	65	68	73	73	65	64	62	71	71	66	75	72	68	61	63	66	62	69	70	72	68	68	69	69	66.7	EDT
GLENMONT 1NNE	81	78	82	87	81	85	88	94	98	92	87	83	82	88	92	87	93	87	89	82	82	83	83	88	89	92	95	92	84	85	90	87.1	2400
ROSSEN	58	55	55	62	71	67	63	64	67	71	69	62	62	61	66	68	65	74	69	63	58	62	63	59	66	67	68	68	70	69	68	64.8	EST
BETHESDA	78	75	77	82	81	85	86	91	93	91	86	81	83	83	89	86	89	87	88	81	81	81	81	82	82	86	89	86	83	83	87	84.2	2400
SCAFIDE	61	57	58	66	69	66	65	66	69	73	71	63	63	62	68	69	66	73	70	67	62	64	66	63	67	69	69	67	70	70	70	66.4	EDT
GAITHERSBURG 2WNW	84	83	80	83	81	89	92	97	100	93	91	88	84	90	93	91	96	90	88	87	87	87	89	89	88	91	93	93	84	88	90	89.0	2400
SHAW	57	55	56	65	67	67	63	63	67	72	71	62	62	61	68	70	63	73	69	65	59	61	64	59	67	68	72	66	69	68	68	65.1	EDT
FOREST GLEN	83	81	82	87	84	89	91	96	98	95	89	86	87	87	94	92	96	91	92	85	87	88	88	89	88	92	95	93	87	88	93	89.5	2400
TERRY	58	54	56	63	72	67	63	64	68	73	72	62	61	61	68	68	65	75	69	66	58	62	64	62	66	70	71	67	71	69	69	65.6	EDT
ROCKVILLE 1NE	81	76	80	86	87	87	90	94	99	95	89	85	84	89	93	91	94	89	90	84	82	83	84	88	89	90	94	92	82	86	89	87.8	2400
WASH GAS LIGHT	63	59	57	64	72	68	66	65	69	74	72	65	67	62	72	71	65	74	70	60	60	64	66	60	68	72	69	66	68	68	68	66.6	EDT
OXON HILL	84	81	82	88	81	90	93	97	99	96	88	87	86	90	95	91	93	92	93	87	87	86	87	87	88	91	97	94	86	87	93	89.5	2300
SMITH	63	60	58	66	74	71	66	68	71	73	73	67	65	63	70	71	69	74	71	75	65	66	69	65	67	70	70	70	70	72	70	68.5	EDT
HOLLYWOOD	79	79	81	86	85	89	93	97	98	95	91	87	85	89	94	92	95	93	97	85	84	85	85	88	88	88	93	92	89	87	91	89.0	2359
ABELL	66	60	54	68	73	71	64	68	73	74	72	68	64	63	68	71	68	75	70	69	67	63	67	62	66	68	70	68	71	70	73	67.9	EDT
RIDGE	79	78	80	88	89	91	91	93	95	91	93	88	85	87	93	91	92	94	98	87	84	85	85	87	88	88	90	87	90	84	90	88.4	2400
ZYLA	67	62	61	70	72	71	69	70	77	75	73	70	69	67	69	74	71	75	72	72	68	68	69	68	67	71	71	70	72	73	71	70.1	EDT
SMITHSBURG 1.5 SW	79	79	81	84	81	85	88	92	97	93	85	84	80	88	88	90	92	86	85	80	85	84	84	88	88	91	90	90	86	87	91	86.5	2400
HUTTO	53	48	51	62	68	63	57	58	60	66	67	55	54	52	70	65	57	72	67	60	51	59	60	52	59	65	67	64	68	64	66	60.6	EDT
HAGERSTOWN 1E	79	76	79	83	82	88	90	94	97	94	86	85	82	87	91	89	90	87	89	80	82	83	82	87	86	91	90	91	86	86	90	86.5	2400
KEEFER	58	52	54	65	69	64	60	61	64	68	70	60	57	55	68	67	59	72	69	66	55	62	62	56	61	69	70	66	69	66	69	63.3	EDT
SMITHSBURG 2 NE	76	75	77	81	79	83	86	90	94	93	82	81	79	85	88	87	89	85	85	82	80	80	79	83	83	88	87	87	83	84	87	83.8	2400
VAUGHN	57	53	55	66	69	66	62	67	70	68	60	63	58	73	69	62	63	69	66	59	64	62	57	61	70	68	65	68	64	69	64.0	EDT	
SALISBURY	80	78	81	83	87	90	92	95	98	94	92	85	84	89	92	92	93	91	96	83	84	84	85	87	88	88	91	93	89	79	90	88.2	2400
NWS WICOMICO CO APT	51	46	43	62	73	63	58	66	66	69	71	58	60	54	62	69	67	69	67	57	56	54	58	54	56	66	64	63	66	68	66	61.4	EST
WASH NATIONAL	84	80	83	87	82	90	92	97	98	98	87	85	86	87	94	90	92	91	93	85	85	85	86	88	86	92	95	91	85	87	92	88.8	2400
NWS ASOS	65	62	63	69	72	71	69	70	73	75	73	66	67	66	71	72	70	76	73	70	66	69	69	67	68	71	72	69	72	72	69.7	EST	
WASH DULLES	82	80	79	88	80	88	90	93	97	95	89	86	87	89	95	92	94	92	92	85	86	87	86	87	87	93	95	91	86	89	92	88.8	2400
NWS ASOS	62	59	55	66	69	66	63	66	72	71	64	62	60	69	67	65	73	69	63	62	64	69	60	67	68	69	66	71	70	68	65.7	EST	
STERLING 4 N	80	78	77	86	80	86	89	92	95	93	88	82	85	86	93	89	91	90	90	82	84	83	83	83	84	90	91	90	84	84	89	86.3	2400
SHAFFER	64	56	58	66	73	67	64	66	68	73	72	64	63	62	69	69	66	73	71	68	61	62	64	60	68	69	72	69	71	69	69	66.6	EDT
DAVIS 3 SE WV	71	66	68	74	73	65	72	75	77	82	78	67	67	67	72	75	72	78	68	69	65	67	70	69	64	72	75	71	77	74	76	71.5	0700
LESHER	47	46	47	55	60	59	55	55	59	58	62	50	50	53	54	59	55	59	61	51	48	49	49	52	52	54	56	58	58	58	58	54.4	EDT

**ACON MD / DE / DC
JULY 2007 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				0.56	0.19					1.41	0.17				T	0.07		0.08	0.74					0.01		0.08		0.74		0.27	2.01		6.33 0.0	2400 EDT	
WILMINGTON, DE NWS NEW CASTLE CO APT				0.56	0.02	T				0.02	0.23			T	0.05	0.03		0.17	0.50							0.67	0.01	0.16	0.73			3.15 0.0	2400 EST		
NEWARK AG FARM, DE U OF DE DEOS				0.52	0.07					0.30	0.22			0.01	0.07	0.36	0.01	0.31	0.93						0.02		0.06		0.49		0.31	0.13		3.81	2400 EST
TOWNSEND 4 W, DE U of D DE Townsend Farm				0.25	0.02	0.24				0.57						0.54	0.01									0.04			0.02				1.69	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT				0.32	T					0.74			T					T	0.17	T							0.11	0.01	0.07	0.25	0.01	1.68 -	2400 EST		
GEORGETOWN, DE UofD RESEARCH & ED CTR	0.02			0.17															0.16										0.99	0.38		1.72 0.0	2400 EST		
HARBESON 8 S, DE UofD WARRINGTON FARM				0.20															0.04									0.62	0.47	1.62		2.95 0.0	2400 EST		
FROSTBURG LATTA				T	1.06							1.12		0.02		0.06			0.10	0.07						0.13	0.72	0.26	0.04	0.63	T		4.21 0.0	0700 EDT	
LAVALE MULLINS**					0.64	0.03					0.61							T	0.06						0.50	0.85	0.19	0.04	0.01	0.27	0.01		3.21 0.0	2400 EDT	
PASADENA 3 SW HANSON				0.17	0.22					0.05	0.01			0.04					0.03								0.40	0.21	0.07				1.20 0.0	2400 EDT	
LOTHIAN JUG BAY	T				T	0.09	0.01	T	M	0.02					M	M				0.06	M						T			0.15	0.07	0.40 0.0	0900 EDT		
BWI NWS ASOS				0.11	0.58	0.21				1.84	0.10			0.03					T					T	T		0.37	T	0.07				3.31 0.0	2400 EST	
LAUREL 2 E STOUDT				0.14	>	0.71				1.40	0.02		0.01	0.03					0.02						0.02	0.01		0.05	0.04	0.21	0.06		2.72 0.0	2400 EST	
PARKTON 5SW KREINK				0.07	0.10	T				0.36	0.06				T				0.38						T	0.09	0.02		0.05		0.03	0.16	T	1.32 0.0	2200 EDT
OWINGS MILLS 2SE SHARROW				0.55	0.04					T	T		T	0.12	T	T			T						T	T		T	T	T			0.71 0.0	2400 EDT	
BALTIMORE 2SE MANFRE				0.14	0.67	0.01				0.22	T			0.08	T										0.01			0.03		0.14	T		1.30 0.0	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER				0.24	0.86	0.01				0.40	0.01		0.14	0.07	0.01										0.13			0.11		0.04			2.02 -	2400 EST	
MANCHESTER 1SW CLOSE				T	0.48	0.07	0.02			0.41				T	T			T	0.72	0.01							0.14		0.25		0.02	2.15 0.0	2300 EDT		
WESTMINSTER 4 SSE HARTSOCK				0.42	0.29	0.04							0.03			0.03									0.02				0.12	0.02			0.97 0.0	2000 EDT	
WESTMINSTER 5 SSE KLEIN				0.50	0.36											0.03									0.02			0.05		0.14			1.10 0.0	2200 EDT	
MILLERS 4NE MILLER				0.14	0.17	0.07				0.59	0.05				0.04	0.03		T	0.13	T					T		0.01		0.09	0.04	0.08	0.21	0.06	1.71 0.0	1800 EDT
WESTMINSTER CITY MULLER				0.39	0.10	0.02				0.10	T				0.04		T								0.05			0.17		0.19	0.10		1.16 0.0	1900 EDT	
BRYANS ROAD 2 ESE BRUMBACK	T				0.11					0.08		0.01	0.02				T		0.09	0.01								T	1.18	0.03		1.55 0.0	2400 EDT		
EMMITTSBURG 2 SE GLASS				M	0.11	0.08					0.06					0.02												1.04	0.02				1.33 0.0	0700 EDT	

**ACON MD / DE / DC
JULY 2007 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				0.36	0.11	0.02										0.01			0.02								0.22	1.72	0.20		2.66	2300 EDT	
EAGLE ROCK HARVEY					0.67	1.20				0.17	0.15		0.03				0.10		0.92						0.09	0.63	0.12	0.32	0.01	0.05	4.46	0800 EST	
LAUREL JHU / APL GIANNOLA			0.05	0.53	0.09					T			0.31										0.01	0.01			0.01	0.28	0.07	1.36	2400 EDT		
POTOMAC 4N COHEN				0.54	T					T	0.10		0.26	T					0.25							0.28	0.10	0.44	0.13	2.10	2100 EST		
OLNEY 1 S GIANNOLA			>	1.10	0.06								T	0.18	T	T								0.09		0.26	0.01	0.11		1.81	2400 EDT		
MONTGOMERY VILLAGE ROTH 1SW				0.25	0.03								0.06														0.02	0.14	0.03	0.53	2400 EDT		
GLENMONT 1NNE ROSSEN			0.06	0.33	0.11	T			1.29	0.01		0.20					T	0.10						0.01	0.01	0.05	0.04	0.35	0.01	2.57	2400 EST		
BETHESDA SCAFIDE				0.02	0.10				0.02	0.02		0.18							0.02							0.32	0.05	0.19		0.92	2400 EDT		
GAITHERSBURG 2WNW SHAW			0.01	0.18	0.01								T	0.08	T	T			T								0.09	0.18	0.38	0.93	2400 EDT		
FOREST GLEN TERRY				0.09	0.09	T				0.16	T		0.17	T											T	T	0.05	0.08	0.27	0.95	2400 EDT		
ROCKVILLE 1NE WASH GAS LIGHT			T	0.55	0.02									0.33	T				T									T	0.66	T	1.56	2400 EDT	
OXON HILL SMITH					0.12				0.35	0.03		0.01							0.04					T	T		T	1.09	T	1.64	2300 EDT		
HOLLYWOOD ABELL					T				T	T																0.01		0.11		0.57	2359 EDT		
RIDGE ZYLA					T														0.03	0.01						0.05		0.13	0.01	0.23	2400 EDT		
SMITHSBURG 1.5 SW HUTTO				0.01	0.34										T	T		0.13	T						T		0.06	0.70	0.16	0.01	1.41	2400 EDT	
HAGERSTOWN 1E KEEFER				0.04	0.18	0.01				T					T	T			T	T					T		0.05	1.64	0.41	0.01	2.34	2400 EDT	
SMITHSBURG 2 NE VAUGHN				0.16	0.34													0.02	T					0.08		0.16	0.64	0.15	0.01	1.56	2400 EDT		
SALISBURY NWS WICOMICO CO APT			0.03	0.12	T					T		0.13								0.34	0.01								3.86	T	1.00	5.49	2400 EST
WASH NATIONAL NWS ASOS	T		T	0.03	0.11	T			0.73	0.40	T	T		T					T	0.06					0.05	T	0.02	0.02	0.98		2.40	2400 EST	
WASH DULLES NWS ASOS				0.74	0.02	T								T						0.08						T	0.22	0.06	0.54	0.09	1.75	2400 EST	
STERLING 4 N SHAFFER				0.03	0.01					0.10		0.05	0.28	T	0.02					0.37						T	0.01	0.14	0.46	T	1.47	2400 EDT	
DAVIS 3 SE WV LESHER					0.83	2.04	T			0.38	0.54		0.20			0.95	T	0.07	0.01	0.61						0.02	T	0.57	0.61	0.01	0.26	7.10	0700 EDT