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

HOT, HUMID MONTH WITH VARYING AMOUNTS OF PRECIPITATION ACROSS THE REGION.

July 2006 lived up its' standard of humidity and heat for a Maryland and Delaware summer. There were three periods of high temperatures; first early in the month, second mid month—the peak for the month—and the third end of the month. Cool weather occurred during the second weekend.

Precipitation amounts varied by 9 inches between the wettest and driest stations. Most of it came as a result of thunderstorms, some dropping small hail. The first week was the wettest. Many ACON stations in Anne Arundel, Frederick, and Montgomery Counties observed less than an inch of rain from the 7th to the end of the month.

No tropical storms affected the region this month. The only storm of the month in the Atlantic Basin, Tropical Storm Beryl, passed 115 miles east of Cape Hatteras on the 19th. It moved north northeast and passed over Nantucket on the night of the 20th.

The month started off nice and dry, a relief from the flooding rains of late June. Minimum temperatures on the 1st were generally below 65 while the maximum temperatures were below 85. Heat and humidity returned for the balance of the four day Fourth of July weekend. Thundershowers returned on the second and remained through the sixth. Hail was reported by the following ACON observers on the 2nd: pea size by **Stan Rossen** of **Glenmont 1 NNE**, and marble size by **Brian Smith** of **Oxon Hill**. Numerous reports of one inch plus rains were reported on the 5th and 6th. The following ACON observers reported over 3 inches: **Greg Klein** of **Westminster 5 SSE** 4.24", **Ralph Hartsock** of **Westminster 4 SSE** 4.17", **Dean Day** of **U of D Townsend Farm DE** 3.17" and **Steven Gallaher** of

North St Georges DE 3.07".

The coolest temperatures of the month along with pleasant humidity levels covered the region from the 7th through the 9th. Temperatures in the 40's were common in the Maryland / West Virginia mountains. The coolest, 46, was observed by **Rebecca Harvey** of **Eagle Rock**. Elsewhere minimums from the mid 50's to lower 60's were common.

July heat and humidity returned on the 10th and remained to the 22nd. The high humidity was briefly broken on the 14th and the 16th. The hottest temperatures of the month occurred on the 17th and 18th, when maximum temperatures generally rose to the mid to upper 90's. The hottest temperatures reported by ACON observers were: 101 degrees by **Joe Manfre** of **Baltimore 2 SE**, 100 degrees by **Dan Hanson** of **Pasadena 3 SW**, and 99 degrees by **David Roth** of **Montgomery Village 1 SW**. Temperatures rose to 90 or above at every station in Maryland and Delaware on the 18th.

The heat was broken late on the 18th by thunderstorms. Some were severe but observed rainfall was less than a half an inch.

Thunderstorms, some with heavy rains, occurred on the 22nd. The heaviest rains fell in Delaware. Heavy amounts were also scattered in Anne Arundel and Montgomery Counties. 3.50" was observed at the **U of D Townsend Farm DE** by **Dean Day**, and 2.34" by **Dan Hanson** of **Pasadena 3 SW**.

John Zyla of **Ridge** reported pea size hail during a thunderstorm on the evening of the 27th.

Hot, humid conditions with temperatures generally in the low to mid 90's returned on the 27th. The heat continued into the first week of August.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Baltimore 2 SE	101
Pasadena 3 SW	100
Mont Village 1SW	99

MINIMUM TEMPERATURE

Eagle Rock	46
Davis 3 SE WW	46
Frostburg	49

WARMEST AVG. TEMP.

Baltimore 2 SE	83.3
Mont Village 1 SW	80.6
Annapolis 2 N	80.2
Ridge	80.2

COLDEST AVG. TEMP.

Davis 3 SE WW	66.1
Eagle Rock	70.2
Frostburg	70.4

MAXIMUM PRECIPITATION

U of D Townsend Fm DE	10.63
N St Georges DE	7.68
Ridge	6.81

MINIMUM PRECIPITATION

Mont Village 1 SW	1.29
Potomac 4 N	1.57
Bethesda	1.69

Errata: 2006 total precipitation for some stations in May and June reports are incomplete. Monthly summaries will be updated and placed on the Web site. Thanks to **Stan Rossen** for finding the error.

OBSERVER COMMENTS FOR JULY 2006

Gary Gallaher of Bear 2 SW, DE

Numerous thunderstorms (10 days) throughout the month, some with brief heavy downpours. Humid month.

6th - Only day this month where the maximum temperature failed to rise to 80 or above.

12th - Heavy thunderstorm 4:30-4:45 PM. Visibility less than 1/4 mile due to rain.

Nate Mullins of LaVale

Despite numerous showers and thunderstorms precipitation was below normal. 20 days had measurable rainfall, which is a July record, yet it was the second driest July in 15 years of record. July's mean temp was the warmest since 1999.

30th - 95 degrees, the warmest since 7/04/2002.

Dave Bryant of Annapolis 2 N

2nd - Severe thunderstorm - peak @ 6:33 PM - frequent cloud to ground lightning, heavy rain.

4th - Severe thunderstorm 5:30 - 6:15 PM. Much cloud to ground lightning. Brief heavy rain.

Jeff Stoudt of Laurel 2 E

Only a few light rainfalls dampened the neighborhood after the 6th. Ground became quite dry towards month's end. Supplemental watering was needed to prevent annuals from wilting away.

5th - Occasional light rain except heavy 2300-2350.

Al Kreinik of Parkton 5 SW

Growing conditions good but could use more rain.

13th - Heavy rain, thunder and lightning @ 2:30—2:55 PM. Gutters overflowed.

Marty Sharrow of Owings Mills

10 days with thunder.

8th - Sunshine and pleasant.

18th - Blazing sunshine and hot!

Joe Manfre of Baltimore 2SE

17th - Partly cloudy, very hot 101 degrees.

Ralph Hartsock of Westminster 4 SSE

5th & 6th - Heavy night of the 5th & morning of the 6th rains. 4.17"

Bobby Miller of Millers 4 NE

7th - Partly cloudy and pleasant. High barometer 30.30".

Rebecca Harvey of Eagle Rock

Seven days of fog and four days with thunder.

Rob Cohen of Potomac 4 N

4 days with thunder.

2nd - Gusty thunderstorm 4:30 PM.

Rich Giannola of Olney 1 S

5th 6th— SHRA began in the afternoon of the 5th, ending by 7 PM. 0.08" fell. Overnight SHRA began ~ 10 PM, became heavy at 11 PM and continued into the morning of the 6th. An additional 2.15" fell.

Stan Rossen of Glenmont 1 NNE

2.16" of the 2.70" precipitation fell during the first 6 days.

Kevin Shaw of Gaithersburg 2 WNW

A particularly oppressive hot, muggy period near the end of the month helped set several high minimum temperature records. 16 hazy days. Average temperatures about 3 degrees above normal, while precipitation was 54% of normal.

6th - Daily record low maximum temperature of 76.

Joe Terry of Forest Glen

Hot and humid. 19 days 90 or above. First week very wet then a reversal to very dry the rest of the month.

6th - More heavy rain. Previous two week total of over 14".

Brian Smith of Oxon Hill

2nd - +TSRA 1730 - 1830. :Neighbors said that there was marble size hail near the start. A couple trees and several large limbs blown down onto power lines.

12th - Series of +TSRA 1600 - 1900.

28th - Brief +SHRA 1410-1420. Single clap of thunder 1536.

Floyd Abell of Hollywood

8 days of thunder.

15th - Late day thunderstorm.

John Zyla of Ridge

27th - Marble size hail fell for about 5 minutes from 6:30 to 6:35 PM during an intense thunderstorm which lasted from 6:23 to 6:38 PM, 0.34" fell. The last time we had hail was 4 1/2 years ago on April 3, 2002 which was pea size.

Max Hutto of Smithsburg 1.5 SW

5th - Rain, heavy in evening, not as warm.

18th - Partly cloudy, hot, humid. Thunderstorms in the area, windy.

30th & 31st - Hazy, hot, and humid.

Greg Keefer of Hagerstown 1 E

18th - Mostly sunny, hot and humid. Severe thunderstorms in the area between 5 PM and 7 PM. At this station 0.09" of rain fell and winds gusted to 28 MPH. Some very nearby areas got hit hard with high winds resulting with damage to trees, power lines, etc. Also flooding, hail, and severe lightning. Many power outages in the area.

28th - Hazy, warm, and humid. High 85 degrees. A quick intense thundershower around noon today brought 0.13" of rain, and strong winds to 40 mph. Some minor wind damage was reported.

Jim Vaughn of Smithsburg 2 NE

New daily high minimum temperature set on the 12th, 13th, 28th, 30th, and 31st.

Lance Shaffer of Sterling 4 N VA

7th - 78 degree max temperature - Awesome weather!

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 2006 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>																											
Gallaher, Gary	Bear 2 SW	87.2	67.6	77.4	96	18	56	7	12	0	0	40	NW	2	6.50	1.70	22	26.45	13	2	0.0	0.0	0.0	2400			
Gallaher, Steve	North St. Georges	89.0	69.9	79.5	98	18	59	7	15	0	0				7.68	2.16	6	27.48	11	2	0.0	0.0	0.0	2200			
NWS Wilmington	New Castle Co. Apt.	87.0	69.2	78.1	97	17	57	7	13	0	0	56	W	2	6.05	1.46	6	28.84	12	2	0.0	0.0	0.0	2400			
U of DE DEOS	UofD AG Farm Newark, DE	88.4	68.3	78.4	96	18	58	7	15	0	0	31		27	4.98	1.35	22	26.64	14	2				2400			
U of D Townsend Farm	Townsend 4 W	86.2	68.6	77.4	94	18	57	7	9	0	0	34		4	10.63	3.50	22	<u>29.89</u>	13	2				2400			
<i>Sussex, Delaware</i>																											
NWS Georgetown	Sussex Co. Airport	87.7	69.3	78.5	97	17	60	9	14	0	0	32	SSW	2	3.28	1.03	5	26.77	9	2				2400			
U of D Research & Ed Ctr	Georgetown	87.1	69.3	78.2	97	18	59	9	11	0	0				4.40	1.37	22	26.40	12	1				2400			
U of D Warrington Farm	Harbeson 8 S	86.6	67.7	77.2	96	17	58	7+	13	0	0				3.15	0.73	5	19.93	11	0				2400			
<i>Alleghany, Maryland</i>																											
Latta, Greg	Frostburg	79.7	61.1	70.4	90	18	49	7+	1	0	0				3.07	0.69	21	21.80	11	0	0.0	0.0	0.0	0700			
Mullins, Nate**	LaVale	86.4	64.0	75.2	95	30	53	7	8	0	0				2.29	0.75	5	19.72	20	0	0.0	0.0	0.0	2400			
<i>Anne Arundel, Maryland</i>																											
Bryant, Dave	Annapolis 2 N	87.7	72.7	80.2	94	31	65	7	11	0	0				4.61	1.29	5	27.04	10	1	0.0	0.0	0.0	2400			
Hanson, Dan	Millersville 1 SE	Station closed 3/31/2006																					<u>6.33</u>				2400
Hanson, Dan	Pasadena 3 SW	89.9	69.5	79.7	100	17	57	7	16	0	0	32	S	12	5.85	2.34	22		10	2	0.0	0.0	0.0	2400			
Jug Bay Wetlands	Lothian	89.5	68.8	79.2	98	18+	56	7	15	0	0				4.53	1.78	23	24.11	10	2	0.0	0.0	0.0	0900			
NWS Baltimore	BWI Airport	90.2	69.5	79.9	99	18	57	7	18	0	0	43	WNW	28	1.86	1.03	5	20.36	7	1	0.0	0.0	0.0	2400			
Stoudt, Jeff	Laurel 2 E	89.9	70.2	80.1	98	18	58	7	19	0	0				2.19	0.92	5	26.47	9	0	0.0	0.0	0.0	2400			
<i>Baltimore, Maryland</i>																											
Kreinik, Al	Parkton 5 SW	86.1	64.5	75.3	94	18	53	7	5	0	0				2.82	0.85	13	24.48	6	0	0.0	0.0	0.0	2200			
Sharrow, Marty	Owings Mills 2 SE	88.6	67.9	78.3	96	17+	58	7	16	0	0				2.49	1.06	22	25.48	10	1	0.0	0.0	0.0	2400			
<i>Baltimore City, Maryland</i>																											
Manfre, Joe	Baltimore 2 SE	92.1	74.5	83.3	101	17	66	7	23	0	0				3.23	1.07	6	21.19	8	1	0.0	0.0	0.0	1800			
Maryland Science Ctr	Baltimore Inner Harbor	91.1	74.3	82.7	99	17+	66	7	20	0	0				3.58	1.78	5	22.00	9	1				2400			
<i>Carroll, Maryland</i>																											
Close Jr, Herb	Manchester 1 SW	86.1	68.0	77.1	95	18	58	7	5	0	0				2.93	0.62	5	22.56	11	0	0.0	0.0	0.0	2300			
Hartsock, Ralph	Westminster 4 SSE	87.8	66.1	77.0	97	18	54	7	12	0	0				5.45	3.57	6	30.06	10	1	0.0	0.0	0.0	2000			
Klein, Greg	Westminster 5 SSE	85.0	66.2	75.6	91	18	57	7	2	0	0				5.46	2.61	6	30.04	9	2	0.0	0.0	0.0	2200			
Miller, Bobby	Millers 4 NE	84.8	65.5	75.2	92	17+	56	7	2	0	0	38	WSW	28	3.42	1.32	13	24.37	9	1	0.0	0.0	0.0	1800			
Muller, Ray	Westminster City	88.6	68.8	78.7	96	17+	57	7	16	0	0				4.02	1.24	13	27.63	7	2	0.0	0.0	0.0	1900			
<i>Charles, Maryland</i>																											
Brumback, Marty	Bryans Head 2 ESE	89.5	69.9	79.7	97	17+	59	7	15	0	0				4.18	1.15	22	<u>4.18</u>	9	1	0.0	0.0	0.0	2400			
<i>Frederick, Maryland</i>																											
Lawrence, Bryon	Frederick 3 WNW	89.9	66.5	78.2	98	17+	54	7	20	0	0				1.86	0.93	5	19.79	10	0	0.0	0.0	0.0	2300			
<i>Garrett, Maryland</i>																											
Harvey, Rebecca	Eagle Rock	79.1	61.2	70.2	90	18	46	7	1	0	0				3.17	1.22	6	25.80	9	1	0.0	0.0	0.0	0800			
<i>Harford, Maryland</i>																											
Albright, Lynn	Fallston 2 NW																							2400			
<i>Howard, Maryland</i>																											
Giannola, Rich	Laurel JHU / APL	88.8	70.5	79.7	97	17+	59	7	16	0	0	46	WNW	28	2.48	0.86	5	23.87	8	0	0.0	0.0	0.0	2400			

**ACON MD / DE / DC
JULY 2006 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>Montgomery, Maryland</i>																								
Cohen, Rob	Potomac 4 N	86.9	69.1	78.0	94	4+	57	7	9	0	0				1.57	0.85	6	26.65	8	0	0.0	0.0	0.0	2100
Giannola, Rich	Olney 1 S	<u>86.4</u>	<u>69.3</u>	<u>77.9</u>	95	17	57	7	8	0	0				3.44	2.23	4-5	26.79	7	2	0.0	0.0	0.0	2400
Roth, David	Montgomery Village 1SW	90.7	70.4	80.6	99	17+	58	7	19	0	0	13	18		1.29	0.76	5	27.12	6	0	0.0	0.0	0.0	2400
Rossen, Stan	Glenmont 1 NNE	88.5	68.6	78.6	96	17	56	7	17	0	0				2.70	1.12	2	27.41	8	1	0.0	0.0		2400
Scafide, Tony	Bethesda	85.6	69.6	77.6	93	18	57	7	7	0	0	16	28		1.69	0.70	6	23.71	8	0				2400
Shaw, Kevin	Gaithersburg 2 WNW	88.9	67.8	78.4	98	18	55	7	18	0	0				2.17	1.28	5	30.19	9	1	0.0	0.0	0.0	2400
Terry, Joe	Forest Glen	90.5	69.4	80.0	98	17+	56	7	19	0	0	27	NE	4	3.10	1.63	6	26.99	7	1	0.0	0.0	0.0	2400
Wash Gas Light	Rockville 1 NE	88.6	70.9	79.8	97	18	60	7	16	0	0				1.97	0.60	5	24.47	8	0	0.0	0.0	0.0	2400
<i>Prince Georges, Maryland</i>																								
Smith, Brian	Oxon Hill	89.5	70.6	80.1	97	17+	60	7	18	0	0				4.78	1.36	6	29.26	10	2	0.0	0.0	0.0	2400
<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	89.2	70.8	80.0	97	17+	61	8	16	0	0	33		21	4.53	1.62	4	23.76	10	2	0.0	0.0	0.0	2400
Zyla, John	Ridge	88.0	72.3	80.2	96	18	63	8	14	0	0	35	SW	28	6.81	1.89	4	24.97	12	2	0.0	0.0	0.0	2400
<i>Washington, Maryland</i>																								
Hutto, Max	Smithsburg 1.5 SW	86.8	65.5	76.2	94	17+	52	7	9	0	0	26	SSW	2	3.77	1.10	5	25.52	15	1	0.0	0.0	0.0	2400
Keefer, Greg	Hagerstown 1 E	87.0	67.6	77.3	94	17+	55	7	9	0	0	40	W	28	3.06	0.59	27	23.55	14	0	0.0	0.0	0.0	2400
Vaughn, Jim	Smithsburg 2 NE	89.6	67.4	78.5	97	18	55	7	18	0	0	40	N	18	4.09	0.93	5	27.48	11	0	0.0	0.0	0.0	2400
<i>Wicomico, Maryland</i>																								
NWS Salisbury	Wicomico Co. Apt	87.4	66.2	76.8	96	17+	53	9	14	0	0	41	NW	28	4.53	1.29	4	22.88	9	1	0.0	0.0	0.0	2400
<i>Arlington, Virginia</i>																								
NWS Washington Nationa	National Airport	88.8	72.0	80.4	97	18	62	7	14	0	0	53	W	2	3.56	0.87	5	28.65	6	0	0.0	0.0	0.0	2400
<i>Loudon, Virginia</i>																								
NWS Washington Dulles	Dulles Airport	88.5	68.7	78.6	95	18+	56	7	16	0	0	51	WNW	4	2.45	0.87	14	25.75	11	0	0.0	0.0	0.0	2400
Shaffer, Lance	Sterling 4 N	86.7	70.4	78.6	93	17	61	7	9	0	0				2.41	0.94	5	26.49	9	0	0.0	0.0	0.0	2400
<i>Tucker, West Virginia</i>																								
Leshner, Dave	Davis 3 SE WV	74.2	58.0	66.1	85	18	46	7	0	0	0				5.11	1.23	13	36.31	17	1	0.0	0.0	0.0	0700
SECTION AVERAGE*		87.8	68.6	78.2											3.78						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 LAVALE 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 11/19/06

**ACON MD / DE / DC
JULY 2006 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	85	91	88	90	81	78	80	81	83	86	90	89	85	87	82	91	95	96	90	88	89	85	81	85	85	88	91	90	91	90	92	87.2	2400 EDT
NORTH ST. GEORGES, DE GALLAHER	88	93	90	93	82	78	81	83	84	89	92	92	87	89	84	92	96	98	91	88	91	88	81	88	88	88	94	93	92	91	96	89.0	2200 EDT
WILMINGTON, DE NWS NEW CASTLE CO APT	85	90	87	90	80	78	81	81	81	85	90	90	85	85	80	93	97	96	91	89	88	86	82	84	83	85	91	91	90	91	93	87.0	2400 EST
NEWARK AG FARM, DE U OF DE DEOS	86	92	89	92	82	77	81	82	85	88	92	91	85	89	82	91	95	96	91	88	91	88	82	87	87	90	94	93	91	91	94	88.4	2400 EST
TOWNSEND 4 W, DE U of D DE Townsend Farm	85	90	88	92	80	76	78	82	82	84	88	90	85	85	82	90	93	94	88	86	89	84	80	84	83	86	91	91	88	89	92	86.2	2400 EST
GEORGETOWN, DE NWS SUSSEX CO APT	87	92	91	93	87	76	79	79	83	87	90	90	85	84	85	91	97	96	88	89	92	84	80	86	84	86	91	92	91	92	93	87.7	2400 EST
GEORGETOWN, DE UofD RESEARCH & ED CTR	85	90	90	91	86	75	79	78	81	86	89	89	86	83	85	90	96	97	87	89	89	83	81	87	83	87	90	91	90	92	93	87.1	2400 EST
HARBESON 8 S, DE UofD WARRINGTON FARM	87	92	89	93	85	73	76	76	81	85	90	91	85	81	84	90	96	95	84	88	92	84	78	85	84	84	93	93	91	91	92	86.6	2400 EST
FROSTBURG LATTA	74	81	83	79	78	74	68	72	75	77	80	84	81	78	79	80	85	90	87	84	82	83	74	75	81	80	83	83	76	81	83	79.7	0700 EDT
LAVALE MULLINS**	86	92	88	82	75	83	83	82	81	84	91	88	82	86	86	93	92	93	92	83	87	82	80	87	88	87	82	86	88	95	94	86.4	2400 EDT
ANNAPOLIS 2 N BRYANT	86	91	87	92	80	77	79	80	83	86	89	91	85	87	88	92	93	93	89	89	89	89	82	85	86	89	92	93	92	92	94	87.7	2400 EDT
PASADENA 3 SW HANSON	87	95	92	95	84	80	81	82	85	86	90	93	87	89	91	95	100	98	90	89	95	89	84	88	86	88	93	94	94	95	96	89.9	2400 EDT
LOTHIAN JUG BAY	89	88	94	91	95	88	78	80	81	86	89	82	82	87	86	92	94	98	98	92	90	93	89	84	88	87	94	95	95	94	96	89.5	0900 EDT
BALTIMORE NWS BWI APT	87	93	90	94	85	80	81	82	84	87	90	92	87	88	91	94	98	99	92	92	94	90	84	88	87	89	95	95	94	96	97	90.2	2400 EST
LAUREL 2 E STOUDT	88	92	89	94	84	78	81	83	84	87	92	92	86	90	92	93	97	98	93	91	94	90	84	88	88	91	94	93	93	93	96	89.9	2400 EST
PARKTON 5SW KREINIK	83	90	87	88	82	76	78	79	82	85	88	88	85	87	87	88	92	94	87	88	88	86	79	83	85	88	90	87	89	89	92	86.1	2200 EDT
OWINGS MILLS 2SE SHARROW	88	91	90	93	82	76	81	80	87	88	92	91	84	89	87	92	96	96	91	88	93	88	80	87	86	90	94	92	90	91	94	88.6	2400 EDT
BALTIMORE 2SE MANFRE	90	95	93	96	84	81	83	83	87	89	93	95	88	90	93	95	101	100	94	93	96	93	86	91	90	91	97	96	96	97	99	92.1	1800 EDT
BALT INNER HARBOR MD SCIENCE CENTER	89	95	93	96	84	80	81	83	87	88	93	94	87	89	92	94	99	97	93	91	94	93	84	90	89	91	96	95	94	94	99	91.1	2400 EST
MANCHESTER 1SW CLOSE	83	89	87	89	79	76	77	77	81	84	89	88	82	85	88	89	94	95	87	87	89	87	80	85	84	87	91	87	88	91	93	86.1	2300 EDT
WESTMINSTER 4 SSE HARTSOCK	86	90	87	89	81	77	78	81	83	87	90	88	87	87	87	89	93	97	89	88	92	90	82	87	90	89	95	92	90	91	93	87.8	2000 EDT
WESTMINSTER 5 SSE KLEIN	83	88	86	89	81	72	m	m	81	83	88	88	84	83	85	85	89	91	85	86	87	86	76	81	83	86	89	87	86	88	90	85.0	2200 EDT
MILLERS 4NE MILLER	82	89	86	86	83	75	77	78	81	83	87	85	83	85	86	87	92	92	86	86	86	85	80	82	83	85	88	86	88	89	89	84.8	1800 EDT
WESTMINSTER CITY MULLER	86	92	92	90	86	80	79	80	83	84	90	93	85	88	90	92	96	96	88	91	90	88	83	82	85	90	92	94	94	93	96	88.6	1900 EDT
BRYANS ROAD 2 ESE BRUMBACK	87	93	91	94	87	79	81	82	84	86	90	91	84	84	89	94	97	97	93	90	93	89	85	88	85	89	93	93	94	96	87	89.5	2400 EDT
FREDERICK 3 WNW LAWRENCE	88	95	92	95	81	78	81	83	87	90	93	92	82	90	90	94	98	98	90	91	93	90	84	89	89	93	95	90	93	93	M	89.9	2300 EDT

**ACON MD / DE / DC
JULY 2006 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		
EAGLE ROCK	79	78	82	74	76	72	69	72	74	76	79	82	82	72	82	80	86	90	89	80	86	84	70	76	82	82	84	84	72	79	80	79.1	0800		
HARVEY	58	56	62	62	62	50	46	52	56	56	62	64	67	62	68	60	64	70	64	64	64	64	58	59	60	60	66	68	62	64	68	61.2	EDT		
FALLSTON 2 NW																																			2400
ALBRIGHT																																			EDT
LAUREL JHU / APL	86	93	90	93	83	77	79	83	84	87	92	92	85	89	89	90	97	97	91	91	91	89	81	88	87	90	93	90	91	92	94	88.8	2400		
GIANNOLA	64	71	74	73	69	65	59	62	62	68	74	75	74	73	73	73	72	68	71	75	72	67	63	70	70	75	73	74	76	76	70.5	EDT			
POTOMAC 4N	85	92	88	94	80	74	77	78	82	85	87	88	82	87	86	90	94	89	89	89	88	82	86	85	88	92	88	91	92	93	86.9	2100			
COHEN	64	70	72	71	71	65	57	59	61	64	71	75	72	72	70	69	70	72	69	73	73	72	68	62	67	70	73	73	71	73	74	69.1	EDT		
OLNEY 1 S	83	>	90	89	80	74	77	78	81	84	88	88	82	86	>	90	95	94	88	87	>	>	>	>	90	87	90	87	89	91	92	86.4	2400		
GIANNOLA	63	>	69	71	73	64	57	61	63	66	72	75	73	72	>	69	70	74	68	71	>	>	>	>	63	71	74	74	72	73	75	69.3	EDT		
MONTGOMERY VILLAGE	89	95	93	96	83	78	81	82	86	88	92	94	86	89	92	94	99	99	93	93	94	93	83	88	88	91	95	92	94	95	96	90.7	2400		
ROTH	63	71	74	72	68	64	58	61	62	66	74	73	73	72	72	69	71	75	70	72	75	72	69	64	72	72	76	75	73	77	76	70.4	EDT		
1SW	88	94	90	91	80	77	78	80	84	87	90	91	82	88	89	90	96	94	90	89	91	90	81	89	89	91	95	91	92	92	93	88.5	2400		
GLENMONT 1NNE	62	67	70	70	69	61	56	59	60	65	72	73	72	71	73	68	70	72	69	72	73	73	65	61	68	70	74	73	71	74	74	68.6	EST		
ROSSEN	83	90	87	90	81	75	77	79	81	83	87	88	82	85	87	89	92	93	88	86	89	86	79	84	83	85	90	89	88	90	91	85.6	2400		
BETHESDA	63	69	70	72	71	63	57	62	63	65	72	72	72	73	74	70	71	74	71	73	74	72	66	64	69	70	73	75	73	75	75	69.6	EDT		
SCAFIDE	87	92	91	91	81	76	81	81	82	85	90	90	83	90	89	93	97	98	92	93	91	91	84	89	88	89	93	90	92	93	95	88.9	2400		
GAITHERSBURG 2WNW	60	66	71	70	66	60	55	58	60	64	69	72	71	71	72	67	69	72	68	71	73	71	66	60	68	69	73	73	70	73	74	67.8	EDT		
SHAW	88	94	93	95	85	80	82	84	84	87	92	93	85	90	91	94	98	98	94	92	93	89	85	89	88	90	94	93	93	95	96	90.5	2400		
FOREST GLEN	61	70	71	72	70	61	56	60	62	65	73	73	73	73	74	69	70	73	69	72	75	73	65	62	69	71	74	75	72	74	75	69.4	EDT		
TERRY	88	93	91	93	84	79	79	80	85	88	92	93	82	87	86	91	96	97	88	90	92	91	80	88	88	87	93	91	91	92	88.8	2400			
ROCKVILLE 1NE	64	70	73	73	66	65	60	61	62	78	80	75	73	72	73	72	72	75	70	70	75	71	67	64	71	70	75	75	74	75	76	70.9	EDT		
WASH GAS LIGHT	87	93	91	93	86	81	82	83	84	87	89	91	85	86	90	94	97	97	91	91	91	90	85	87	86	90	94	92	92	93	95	89.5	2300		
OXON HILL	63	70	70	71	71	68	60	62	63	66	73	73	72	73	74	74	72	75	72	73	75	73	70	66	67	72	74	76	73	74	75	70.6	EDT		
SMITH	87	92	91	93	88	76	80	83	84	88	90	92	86	88	90	91	97	97	90	89	91	87	83	88	85	89	94	94	92	93	96	89.2	2359		
HOLLYWOOD	65	71	72	71	71	68	62	61	62	69	74	73	75	75	73	72	72	74	71	72	74	70	70	64	69	71	75	77	74	73	74	70.8	EDT		
ABELL	86	92	91	94	88	79	77	80	83	88	90	92	87	85	90	88	94	96	89	86	92	86	80	81	86	88	93	95	92	91	90	88.0	2400		
RIDGE	70	75	74	70	69	65	64	63	68	72	76	74	75	74	78	75	74	77	75	73	74	78	70	67	69	76	73	75	74	71	72	72.3	EDT		
ZYLA	85	91	88	88	79	78	81	80	83	85	88	88	80	89	88	92	94	94	90	88	87	85	83	85	87	88	91	84	90	92	91	86.8	2400		
SMITHSBURG 1.5 SW	57	69	68	71	67	58	52	56	59	59	67	72	71	66	70	64	65	69	65	70	69	69	64	58	63	66	68	71	67	71	71	65.5	EDT		
HUTTO	84	93	89	89	79	78	79	79	83	85	90	88	81	88	88	92	94	94	89	88	89	87	82	85	86	89	91	85	90	92	91	87.0	2400		
HAGERSTOWN 1E	60	68	70	73	67	61	55	58	61	62	70	71	73	68	73	66	67	70	67	70	71	71	67	61	69	68	72	72	69	72	73	67.6	EDT		
KEEFER	87	92	91	93	85	77	84	84	87	90	93	88	82	96	91	96	96	97	92	93	93	86	83	85	87	92	91	87	92	93	95	89.6	2400		
SMITHSBURG 2 NE	60	72	70	73	67	61	55	58	61	63	73	72	73	68	73	65	69	69	66	71	71	68	62	61	60	68	71	73	70	74	73	67.4	EDT		
VAUGHN	85	91	90	92	85	74	78	79	82	86	89	90	87	85	84	90	96	96	90	89	91	84	80	86	83	86	91	93	92	92	94	87.4	2400		
SALISBURY	57	64	67	69	70	60	59	56	53	62	72	74	73	68	68	68	65	68	67	71	73	72	64	57	60	68	66	73	70	70	67	66.2	EST		
NWS WICOMICO CO APT	86	93	91	94	84	80	80	82	83	85	88	89	84	85	90	92	96	97	92	89	92	89	84	86	85	88	94	94	92	94	96	88.8	2400		
NWS NATIONAL	66	71	72	69	71	66	62	64	66	68	74	74	74	75	76	73	74	77	73	74	75	72	71	67	72	73	75	78	76	77	78	72.0	EST		
NWS ASOS	86	93	90	94	84	79	80	81	83	86	90	91	84	86	88	92	94	95	90	89	92	90	82	86	86	88	93	91	92	94	95	88.5	2400		
NWS DULLES	62	69	73	72	68	60	56	60	61	65	71	72	72	73	73	68	69	72	69	71	74	71	65	62	69	68	73	73	72	73	68.7	EST			
NWS ASOS	84	91	89	92	83	80	78	78	80	85	89	90	83	88	87	92	93	92	88	86	89	87	80	84	85	87	90	87	90	89	91	86.7	2400		
STERLING 4 N	63	71	73	73	72	65	61	62	63	65	72	73	73	75	75	71	71	73	70	73	74	73	69	64	69	69	73	74	72	76	75	70.4	EDT		
SHAFFER	71	74	79	73	76	66	66	67	69	71	74	76	77	67	78	73	81	85	83	77	81	78	67	71	75	73	76	79	69	72	77	74.2	0700		
DAVIS 3 SE WW	51	53	61	60	61	48	46	49	51	55	58	63	65	64	64	59	59	60	60	62	63	63	55	51	52	56	57	67	62	62	58.0	EDT			
LESHER																																			

**ACON MD / DE / DC
JULY 2006 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		0.24	0.24	0.02	0.27	1.60						0.66			0.76			0.44				1.70	0.05				0.11	0.32			0.09	6.50	2400
NORTH ST GEORGES, DE GALLAHER		0.47	0.09		0.91	2.16						>	0.40		0.23			0.60	0.06			1.78	0.07				0.91	T				7.68	2200
WILMINGTON, DE NWS NEW CASTLE CO APT		0.83	0.19	0.02	1.18	1.46						0.19	0.21		0.06			0.24			T	0.72	0.01				0.94	T				6.05	2400
NEWARK AG FARM, DE U OF DE DEOS		0.35	0.11	0.01	0.15	1.35						0.22	0.20		0.27			0.64			0.03	1.04	0.04				0.09	0.48				4.98	2400
TOWNSEND 4 W, DE U of D DE Townsend Farm			0.17	0.84	0.56	2.61						0.05	0.98		0.84			0.06			0.30	3.50	0.16				0.07	0.49				10.63	2400
GEORGETOWN, DE NWS SUSSEX CO APT		0.13	T	0.39	1.03	0.26						T	T	T	0.13			T				1.01	0.29					0.01			0.03	3.28	2400
GEORGETOWN, DE UofD RESEARCH & ED CTR			0.52	0.46	0.66	0.37						0.02		0.25	0.06			0.01				1.37	0.32					0.16			0.20	4.40	2400
HARBESON 8 S, DE UofD WARRINGTON FARM		0.02	0.14	0.72	0.73	0.41							0.09		0.01			0.02				0.58	0.30					0.13				3.15	2400
FROSTBURG LATTA			0.07		0.51	0.23							0.12	0.08	0.14							0.69	0.01				0.62	0.10			0.50	3.07	0700
LAVALE MULLINS**		0.02	0.04	0.01	0.75	0.01		0.08	0.01			0.12	0.07	0.01	T						0.05	0.54	0.07	0.01		0.41	0.01	0.05	0.01	0.01	0.01	2.29	2400
ANNAPOLIS 2 N BRYANT		0.71		0.62	1.29	0.20						0.46	0.12		0.32			0.17		0.32		0.40										4.61	2400
PASADENA 3 SW HANSON			0.01		0.65	1.98						0.49	0.02					0.25	0.01			2.34	0.06					0.04				5.85	2400
LOTHIAN JUG BAY	T		0.33		0.47	1.53	0.01	T	T				0.31	0.01	T	T					T	T	1.78	0.02					0.06	0.01		4.53	0900
BWI NWS ASOS				0.05	1.03	0.40				T		0.19	0.01		T			T				0.13					T	T	0.05			1.86	2400
LAUREL 2 E STOUDT		0.06		0.01	0.92	0.63						0.24	0.03		0.02			T				0.21					0.07					2.19	2400
PARKTON 5SW KREINIK					T	0.71						0.45	0.85						0.27				0.44					0.10				2.82	2200
OWINGS MILLS 2SE SHARROW		0.04	0.08	0.04	0.60	0.31						0.04	0.16		T			T				1.06				0.12		0.04				2.49	2400
BALTIMORE 2SE MANFRE		T	T		0.95	1.07							T		T			0.03				0.61	0.01			0.36	0.06	0.14				3.23	1800
BALT INNER HARBOR MD SCIENCE CENTER				0.03	1.78	0.57							0.15					0.04				0.54				0.34	0.03	0.10				3.58	2400
MANCHESTER 1SW CLOSE		0.02	0.12	0.12	0.62	0.19						0.13	0.31					0.54				0.18					0.60	0.10				2.93	2300
WESTMINSTER 4 SSE HARTSOCK			0.14		0.60	3.57						T	0.02	0.28				0.12				0.39	0.02				0.18	0.13				5.45	2000
WESTMINSTER 5 SSE KLEIN			0.06		1.63	2.61						0.10	0.26					0.12				0.40					0.03	0.25				5.46	2200
MILLERS 4NE MILLER			0.21	T	0.19	0.40						0.25	1.32	T	T				0.36			T	0.51				0.03	0.15			T	3.42	1800
WESTMINSTER CITY MULLER			T	0.05	0.38	0.94							1.24					T	1.00			0.33					0.08					4.02	1900
BRYANS ROAD 2 ESE BRUMBACK		0.05		0.82	0.77	0.85								0.10	0.39							0.04	1.15	0.01								4.18	2400
FREDERICK 3 WNW LAWRENCE				0.93	0.09			0.01			T	0.26	0.03					0.31	0.01			0.12					0.06	0.04				1.86	2300
																																0.0	EDT

**ACON MD / DE / DC
JULY 2006 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	
EAGLE ROCK HARVEY			0.51	0.03	0.15	1.22						0.59	0.19	0.02								0.24	0.22							T	3.17	0800		
FALLSTON 2 NW ALBRIGHT																																	0.0	EDT
LAUREL JHU / APL GIANNOLA				0.02	0.86	0.60						0.01					0.02					0.76				0.01	0.20					2.48	2400	
POTOMAC 4N COHEN		0.35		0.15	0.09	0.85						0.01	0.02	0.05								0.05										0.0	EDT	
OLNEY 1 S GIANNOLA			0.03	0.02	>	2.23						T	0.02					T				1.02				0.02	0.10					3.44	2400	
MONTGOMERY VILLAGE ROTH 1SW			0.03	0.16	0.76	0.31								0.02								0.01										1.29	2400	
GLENMONT 1NNE ROSSEN		1.12		0.04	0.69	0.31						0.31	0.02					T				0.13	T			0.08	T					2.70	2400	
BETHESDA SCAFIDE		0.14		0.51	0.05	0.70						0.04	0.01		0.08							0.16										1.69	2400	
GAITHERSBURG 2WNW SHAW		0.02	0.02	0.05	1.28	0.37						0.04		0.05				T				0.28				T	0.06					2.17	2400	
FOREST GLEN TERRY		0.05		0.66	0.50	1.63						0.06	0.02									0.18	T									3.10	2400	
ROCKVILLE 1NE WASH GAS LIGHT		0.36	T	0.17	0.60	0.45						0.02	0.01									0.20			T	0.16		T				1.97	2400	
OXON HILL SMITH		0.78		0.39	0.34	1.36						1.15	0.01	0.07								0.15	0.50	T				0.03				4.78	2300	
HOLLYWOOD ABELL		0.05		1.62	0.39	0.42						1.24	T	0.04	0.40							T	0.22	0.12				0.03				4.53	2359	
RIDGE ZYLA			T	1.89	0.99	0.41						0.01							0.24			0.06	0.90	0.47			0.02	0.34	0.10		1.38	6.81	2400	
SMITHSBURG 1.5 SW HUTTO			0.01		1.10	0.32			0.01	0.01	T	0.17	0.39					0.09	0.04	0.05	0.04	0.67			0.09	0.51	0.27					3.77	2400	
HAGERSTOWN 1E KEEFER		T		T	0.56	0.17			0.05		0.01	0.20	0.08		0.37			0.09		0.02	0.26	0.44			0.09	0.59	0.13					3.06	2400	
SMITHSBURG 2 NE VAUGHN			0.03		0.93	0.29			0.02			0.15	0.29					0.92	T	T	0.09	0.44			T	0.68	0.25					4.09	2400	
SALISBURY NWS WICOMICO CO APT				1.29	0.99	0.37								T	0.06							0.73	0.79		T	0.11	0.05			0.14	4.53	2400		
WASH NATIONAL NWS ASOS		0.70		0.35	0.87	0.61						0.69	T	T	T			T		T		0.34	T									3.56	2400	
WASH DULLES NWS ASOS		0.08		0.24	0.38	0.34			T	T		0.24	0.03	0.87	0.01				T			0.15	0.01		0.10		T					2.45	2400	
STERLING 4 N SHAFFER				0.02	0.94	0.44						0.02	0.20	0.02	0.21	T		T				0.47	T		0.09		T	T				2.41	2400	
DAVIS 3 SE WV LESHAR			0.32	0.16	0.45	0.95						1.23	0.68	0.01	0.05				0.08	0.18	0.06	0.07	0.42			0.09		0.03	0.31	T	0.02	5.11	0700	
																																0.0	EDT	