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

## BELOW NORMAL PRECIPITATION DESPITE NUMEROUS THUNDERSTORMS

June's temperatures averaged slightly above normal. "Hot, humid weather was balanced nicely by cool, comfortable periods" as noted by **Joe Terry** of **Forest Glen** in his June summary. Dry conditions from May continued over much of the area. Precipitation varied across the board from less than 2 inches to over 5 inches. Thunderstorms were common. Some of the storms were severe with damaging winds and or hail while others brought only a little rain. The remnants of Tropical Storm Barry brought beneficial rains early in the month to the eastern areas.

Warm to hot temperatures continued from the end of May through the first couple days of June. Temperatures generally were in the mid 80's to 90 degrees. On the 3rd and 4th remnants of Tropical Storm Barry moved up along the Atlantic Coast. Beneficial rains of over one inch fell generally east of the I-95 corridor. Rainfall totals in Delaware were around one and a half inches. The lowest barometric pressures of the month resulted from Barry's passage. The following readings were reported by ACON observers: **John Zyla** of **Ridge** 29.29", **Greg Keefer** of **Hagerstown 1 E** 29.37", **Gary Gallaher** of **Bear 2 SW De** 29.38", **Dan Hanson** of **Pasadena 3 SW** 29.39", **Bobby Miller** of **Millers 4 NE** 29.42", **Joe Terry** of **Forest Glen** 29.42", and **Rich Giannola** of **Laurel JHU/APL** 29.43"

Maximum temperatures remained in the 70's and lower 80's through the 6th. Morning lows on the 7th ranged from the upper 40's to mid 50's outside metropolitan areas.

A warming trend began on the afternoon of the 7th. By the 8th temperatures rose into the 90's. A third of the ACON stations reported their hottest temperatures of the month. 98° was reported by the following ACON observers: **Joe**

**Manfre** of **Baltimore 2 SE**, **Bryon Lawrence** of **Frederick 3 WNW**, and **David Roth** of **Montgomery Village 1 SW**. **Greg Keefer** of **Hagerstown 1E** reported a heat index of 103°.

Isolated strong thunderstorms occurred the evening of the 8th. Winds gusted to 61 MPH at Hagerstown Airport. **Max Hutto** of **Smithsburg 1.5 SW** reported area wide tree damage.

Rainfall totals from thunderstorms on the 12th and 13th ranged from a few hundreds of an inch to over 2 inches. **Stan Rossen** of **Glenmont 1 NNE** measured 2.52", **Rich Giannola** of **Laurel JHU/APL** 1.96", **Rich Giannola** of **Olney 1 S** 1.85" and **Joe Terry** of **Forest Glen 1 E** 1.85". **Greg Keefer** of **Hagerstown 1 E** reported hail in the Hagerstown area, but not at his station on the 12th but on the 13th he recorded pea to quarter size hail. **Nate Mullins** of **LaVale** also reported hail in the Cumberland area on the 12th and 13th. Golf ball size hail fell on the 13th. No hail fell at his station in LaVale.

The 14th was mostly cloudy and very cool for mid June. Maximum temperatures remained in the 60's.

90 degree temperatures returned in force on the 18th and 19th. Low to mid 90's were common in Maryland but upper 80's in Delaware.

Some of the coolest temperatures of the month occurred on the morning of the 23rd. Mid to upper 40's were observed at locations with good radiational cooling. **Rebecca Harvey** of **Eagle Rock** reported 42°, **Al Kreinik** of **Parkton 5 SW** 45°, and **Bobby Miller** of **Miller 4 NE** 46°. **Salisbury Wicomico County Airport** reported 43°.

The last hot spell of the month occurred from the 26th to the 28th. Temperatures peaked on the 27th when they rose into the mid 90's. **Joe Manfre** of

### EXTREMES REPORTED BY

#### ACON OBSERVERS

##### MAXIMUM TEMPERATURE

Baltimore 2 SE	99
Montgomery Village 1 SW	99
Jug Bay Wetlands	98

##### MINIMUM TEMPERATURE

Davis 3 SE WV	41
Eagle Rock	42
Frostburg	45
Parkton 5 SW	45

##### WARMEST AVG. TEMP.

Baltimore 2 SE	80.0
Oxon Hill	76.0
Ridge	75.7

##### COLDEST AVG. TEMP.

Davis 3 SE WV	62.4
Frostburg	65.9
Eagle Rock	66.1

##### MAXIMUM PRECIPITATION

Olney 1 S	5.39
Davis 3 SE WV	5.17
Forest Glen	4.65

##### MINIMUM PRECIPITATION

Parkton 5 SW	1.34
Bryans Road 2 ESE	1.60
Millers 4 NE	1.73

**Baltimore 2 SE** reported 99°. 97° was reported by **Dan Hanson** of **Pasadena 3 SW**, and **Floyd Abell** of **Hollywood**.

More thundershowers occurred on the 27th and 28th. Amounts were generally less than a 1/4 inch. The heaviest rains fell in Washington County where 1/2 to 3/4 inches of rain fell.

The month ended with seasonable temperatures. Afternoon showers in St Marys County brought 0.53" to **Hollywood** and 0.67" to **Ridge**.

# OBSERVER COMMENTS FOR JUNE 2007

## **Gary Gallaher of Bear 2 SW, DE**

Changeable month. Temperatures and precipitation slightly above normal. Periods of summer type humidity along with periods of very pleasant conditions. No severe thunderstorms

**3rd & 4th** - Much needed soaking rains.

**25th** - Surprise thundershower brought much needed rain shortly after sunrise.

## **Greg Latta of Frostburg**

**14th** - Heavy fog at observation.

## **Nate Mullins of LaVale**

June was highlighted by warm temperatures and scattered strong to severe thunderstorms.

**1st** - Thunderstorm with gusty winds and a deluge of rain measuring 0.83" in 30 minutes.

**12th** - Severe thunderstorms 8 to 11 PM moved in from the NE. Winds gusted to over 40 mph, almost continuous lightning and brief heavy rains. Severe wind damage and several funnel clouds reported in the Flintstone area. Hail reported in other parts of the county.

**13th** - Golf ball size hail, damaging winds and flooding in Cumberland.

## **Jeff Stoudt of Laurel 2 E**

Moderate rain from TS Barry remnants and an isolated thundershower brought 71% of the month's rain and temporary relief from May's dryness.

## **Al Kreinik of Parkton 5 SW**

**8th** - AM dense fog

**18th** - Becoming hazy in the PM.

## **Marty Sharrow of Owings Mills**

9 days with thunder (3rd, 4th, 12th, 13th, 19th, 21st, 26th, 27th, 28th)

**20th** - Clearing, less humid and cooler.

## **Joe Manfre of Baltimore 2SE**

Another warm month with 7 days with thunder.

## **Ralph Hartsock of Westminster 4 SSE**

**13th** - PM severe storms, good rains finally.

**26th** - Humid, Hot, Sunny

**28th** - Mostly cloudy, humid

## **Bobby Miller of Millers 4 NE**

5th driest June of 26. May—June was the second driest with 3.54" of rain behind 1986 with 2.37" of rain.

**13th & 26th** - Heavy fog at 6 AM

## **Rebecca Harvey of Eagle Rock**

Thunder on the 4th, 6th, 13th, 14th, 22nd, 28th, 29th, 30th.

## **Rich Giannola of JHU/APL**

**12th** - Late afternoon TSRA and evening SHRA.

## **Rob Cohen of Potomac 4 N**

**3rd** - Rain, drizzle, windy. Afternoon temperatures in the mid 60's.

**18th & 27th** - Record maximum temperatures 92° and 94°.

## **Rich Giannola of JHU/APL**

**10th** - Early afternoon, very localized ++SHRA. Storm moved from NE to SW.

**13th** - Mid afternoon TSRA began at 6:20 PM (0.12") followed by a +TSRA beginning at 6:45 PM ending ~ 9 PM (1.57".)

## **Kevin Shaw of Gaithersburg 2 WNW**

90% of the month's rain fell during the first 14 days.

**14th & 15th** - Record low maximum temperatures of 68° & 69°.

**27th** - Tied record maximum temperature of 95 set in 2002

## **Joe Terry of Forest Glen**

Hot, humid weather balanced nicely by cool, comfortable periods.

**4th** - 29.42" second lowest pressure (14 years of records)

**13th** - 3 thunderstorms, all moving from the NNE. First storm in the early afternoon produced no rain but lots of lightning and dark clouds to the east. The third storm dumped 1.48" in the early evening.

**23rd** - Dew point as low as 45°

## **Brian Smith of Oxon Hill**

**12th** - TSRAGR 1800-1805. Hail 1/4"

## **Floyd Abell of Hollywood**

**20th** - Evening thunderstorm then fair.

**30th** - Mostly cloudy, AM shower (0.05"), heavy afternoon shower (0.62")

## **John Zyla of Ridge**

**3rd** - Fog

## **Max Hutto of Smithsburg 1.5 SW**

**8th** - AM haze, hot, PM thunderstorm, very windy, area wide tree damage.

**29th** - AM rain, cloudy, cooler

## **Greg Keefer of Hagerstown 1 E**

**8th** - Record high of 94° set in 1999 tied. Heat index peaked at 103°.

**12th** - Storms moved in from the NE. Some areas received hail and high winds. No hail here.

**13th** - Intense storm moved in from the NNE with heavy downpours, sharp lightning wind gusts to 34 MPH. Hail fell for about 10 minutes, mainly pea to marble size but some quarter size hail fell.

## **Jim Vaughn of Smithsburg 2 NE**

Daily low maximum temperatures set on the 14th (64°), 15th (69°), 16th (78°), 22nd (73°), and the 29th (73°).

Daily high minimum temperatures set on the 3rd (64°), and the 4th (63°).

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 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	82.2	61.1	71.7	94	8	47	23	3	0	0	34	NNE	12	3.46	1.23	3	24.18	9	1	0.0	0.0	12.6	2400
NWS Wilmington	New Castle Co. Apt.	82.6	63.6	73.1	94	27	53	7+	4	0	0	36	W	27	2.72	1.01	3	22.36	12	1	0.0	0.0	12.6	2400
U of DE DEOS	UofD AG Farm Newark, DE	83.1	62.6	72.9	96	27	51	7	7	0	0	24		27	3.35	1.13	3	21.48	12	1				2400
U of D Townsend Farm	Townsend 4 W	80.7	61.4	71.1	93	8	49	23	3	0	0	28		3	3.96	1.55	3	14.22	12	1				2400
<i>Sussex, Delaware</i>																								
NWS Georgetown	Sussex Co. Airport	82.6	62.1	72.4	95	27	50	23	5	0	0	38	SW	27	2.53	1.44	3	17.43	11	1				2400
U of D Research & Ed Ctr	Georgetown	82.2	62.2	72.2	95	8	51	23	6	0	0				2.64	0.91	3	15.50	11	0			7.3	2400
U of D Warrington Farm	Harbeson 8 S	80.3	61.4	70.9	94	27	48	23	3	0	0	25		27	2.90	1.48	3	12.86	9	1				2400
<i>Allegany, Maryland</i>																								
Latta, Greg	Frostburg	76.5	55.2	65.9	86	9	45	23	0	0	0				4.41	1.47	2	19.16	16	1	0.0	0.0	65.0	0700
Mullins, Nate**	LaVale	82.0	59.2	70.6	93	8+	50	7+	5	0	0				3.49	0.83	1	15.62	16	0	0.0	0.0	35.3	2400
<i>Anne Arundel, Maryland</i>																								
Hanson, Dan	Pasadena 3 SW	84.9	62.5	73.7	97	27	50	23	8	0	0	33	ENE	13	2.26	0.91	3	17.25	9	0	0.0	0.0		2400
Jug Bay Wetlands	Lothian	88.3	62.2	75.3	98	28	49	23	12	0	0				4.06	1.42	4	18.52	14	2	0.0	0.0	3.5	0900
NWS Baltimore	BWI Airport	84.3	63.2	73.8	97	27	50	23	7	0	0	60	NW	21	2.20	1.18	3	16.83	10	1	0.0	0.0	11.0	2400
Stoudt, Jeff	Laurel 2 E	84.5	64.5	74.5	96	27	54	7+	8	0	0				2.46	1.76	2-3	17.40	9	1	0.0	0.0	12.9	2400
<i>Baltimore, Maryland</i>																								
Kreinik, Al	Parkton 5 SW	83.7	58.7	71.2	93	8+	45	23	6	0	0				1.34	0.45	14	19.13	10	0	0.0	0.0	19.3	2200
Sharrow, Marty	Owings Mills 2 SE	82.3	61.7	72.0	94	8+	51	7	5	0	0				2.01	0.79	13	14.71	10	0	0.0	0.0	18.0	2400
<i>Baltimore City, Maryland</i>																								
Manfre, Joe	Baltimore 2 SE	88.3	71.7	80.0	99	27	64	14+	14	0	0				2.70	0.97	3	16.69	9	0	0.0	0.0	11.2	1800
Maryland Science Ctr	Baltimore Inner Harbor	88.2	71.6	79.9	99	27	64	14	14	0	0				2.45	0.87	13	15.51	10	0				2400
<i>Carroll, Maryland</i>																								
Close Jr, Herb	Manchester 1 SW	81.4	62.5	72.0	95	27	52	15+	5	0	0				2.16	0.59	13	20.63	15	0	0.0	0.0	22.7	2300
Hartsock, Ralph	Westminster 4 SSE	82.8	59.9	71.4	95	27	47	7	5	0	0	40		8	2.07	0.68	13	<u>21.39</u>	12	0	0.0	0.0	18.3	2000
Klein, Greg	Westminster 5 SSE	79.8	60.2	70.0	91	27	50	15	2	0	0				2.07	0.74	13	20.52	9	0	0.0	0.0	24.3	2200
Miller, Bobby	Millers 4 NE	81.7	58.8	70.3	92	27	46	23	3	0	0	44	WSW	21	1.73	0.41	2	19.54	12	0	0.0	0.0	22.3	1800
Muller, Ray	Westminster City	83.3	61.9	72.6	95	27	51	15	6	0	0	35	NNW	20	2.20	0.66	13	19.84	12	0	0.0	0.0	21.7	1900
<i>Charles, Maryland</i>																								
Brumback, Marty	Bryans Road 2 ESE	86.3	63.8	75.1	97	8	53	23	10	0	0	37		27	1.60	0.59	4	15.21	10	0	0.0	0.0	10.0	2400
<i>Frederick, Maryland</i>																								
Glass, Eric	Emmitsburg 2 SE	81.6	59.6	70.6	94	26	49	7	4	0	0				1.84	0.37	2	<u>14.61</u>	9	0	0.0	0.0	19.9	0700
Lawrence, Bryon	Frederick 3 WNW	85.7	61.0	73.4	98	8	50	7+	10	0	0				2.79	0.80	3	<u>2.79</u>	13	0	0.0	0.0	M	2300
<i>Garrett, Maryland</i>																								
Harvey, Rebecca	Eagle Rock	76.8	55.3	66.1	88	27	42	23	0	0	0				4.16	1.08	13	23.39	14	1	0.0	0.0	124.6	0800

**ACON MD/DE/DC  
JUNE 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	SEA- SON
<i>Howard, Maryland</i>																									
Giannola, Rich	Laurel JHU / APL	83.7	64.3	74.0	96	8	53	7	7	0	0	47	NW	21	3.38	1.83	13	15.84	9	1	0.0	0.0	12.5	2400	
<i>Montgomery, Maryland</i>																									
Cohen, Rob	Potomac 4 N	82.8	62.8	72.8	94	27	52	14+	6	0	0				3.58	0.87	8	16.85	12	0	0.0	0.0	14.3	2100	
Giannola, Rich	Olney 1 S	<u>82.5</u>	<u>63.8</u>	<u>73.2</u>	93	8+	53	23	6	0	0				5.39	2.23	10	18.50	11	2	0.0	0.0	15.1	2400	
Roth, David	Montgomery Village 1SW	86.0	64.0	75.0	99	27	54	7	11	0	0	16		21	2.29	0.88	13	16.45	16	0	0.0	0.0	12.7	2400	
Rossen, Stan	Glenmont 1 NNE	84.3	62.0	73.2	95	8+	52	7+	7	0	0				3.91	2.45	13	17.29	11	1	0.0	0.0	14.1	2400	
Scafide, Tony	Bethesda	81.0	63.7	72.4	92	27	54	23	5	0	0	13		21	3.08	1.01	8	14.03	12	1				2400	
Shaw, Kevin	Gaithersburg 2 WNW	85.1	61.8	73.5	95	26+	51	7+	10	0	0				3.70	1.07	13	17.99	15	1	0.0	0.0	18.8	2400	
Terry, Joe	Forest Glen	85.6	62.8	74.2	96	8+	51	23	9	0	0	26	W	5	4.65	1.81	13	19.54	11	2	0.0	0.0	15.4	2400	
Wash Gas Light	Rockville 1 NE	83.8	63.7	73.8	97	8	53	7	9	0	0				2.87	0.94	13	14.40	8	0	0.0	0.0	5.6	2400	
<i>Prince Georges, Maryland</i>																									
Smith, Brian	Oxon Hill	85.9	66.1	76.0	97	8+	55	15	10	0	0				2.89	0.65	3	17.50	12	0	0.0	0.0	13.1	2300	
<i>St. Marys, Maryland</i>																									
Abell, Floyd	Hollywood	84.3	65.8	75.1	97	27	55	23	6	0	0	25		12	3.12	1.23	3	20.30	9	1	0.0	0.0	7.8	2400	
Zyla, John	Ridge	84.3	67.0	75.7	96	8+	57	15	7	0	0	25	SE+	9+	2.64	0.73	3	18.71	13	0	0.0	0.0	7.1	2400	
<i>Washington, Maryland</i>																									
Hutto, Max	Smithsburg 1.5 SW	83.3	58.2	70.8	94	26+	47	7+	6	0	0	36	SSW	8	3.32	0.52	29	17.98	16	0	0.0	0.0	22.4	2400	
Keefer, Greg	Hagerstown 1 E	83.2	60.7	72.0	94	8+	49	7	6	0	0	45	W	19	3.48	0.80	13	17.41	14	0	0.0	0.0	23.6	2400	
Vaughn, Jim	Smithsburg 2 NE	81.1	60.9	71.0	92	27	50	15+	5	0	0	53	W	19	2.80	0.69	8	15.95	14	0	0.0	0.0	21.7	2400	
<i>Wicomico, Maryland</i>																									
NWS Salisbury	Wicomico Co. Apt	82.6	57.9	70.3	93	28+	43	23	6	0	0	32	NW	22	2.48	1.23	3	17.81	12	1	0.0	0.0	3.4	2400	
<i>Arlington, Virginia</i>																									
NWS Washington National	National Airport	85.0	67.2	76.1	96	19+	59	15+	7	0	0	37	NW	8	1.38	0.88	3	15.17	10	0	0.0	0.0	9.5	2400	
<i>Loudon, Virginia</i>																									
NWS Washington Dulles	Dulles Airport	85.5	63.3	74.4	97	8+	53	23	8	0	0	61	SE	13	2.92	1.15	13	14.22	12	1	0.0	0.0	14.7	2400	
Shaffer, Lance	Sterling 4 N	82.9	64.1	73.5	95	27	54	23	5	0	0				2.98	0.96	13	15.22	15	0	0.0	0.0	20.3	2400	
<i>Tucker, West Virginia</i>																									
Leshner, Dave	Davis 3 SE WV	72.2	52.5	62.4	81	27+	41	23	0	0	0				5.17	0.77	29	35.19	13	0	0.0	0.0	193.6	0700	
<b>SECTION AVERAGE*</b>		<b>83.3</b>	<b>62.4</b>	<b>72.9</b>													<b>2.90</b>	<b>18.03</b>			<b>0.0</b>		<b>19.7</b>		

**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 11/23/07

**ACON MD / DE / DC**  
**JUNE 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	AVG	OBS TIME
BEAR 2 SW, DE	88	88	73	81	81	72	82	94	84	77	82	86	77	64	73	80	89	89	87	81	84	79	78	84	85	91	93	89	74	81	82.2	2400
GALLAHER	65	65	64	64	61	53	49	62	72	66	61	63	61	55	57	60	63	65	63	59	52	56	47	50	65	68	69	69	65	64	61.1	EDT
WILMINGTON , DE	89	87	74	81	81	75	81	92	87	78	82	89	77	64	73	80	89	88	88	82	84	80	78	83	84	91	94	90	76	81	82.6	2400
NWS NEW CASTLE CO APT	69	69	65	66	63	56	53	66	69	66	62	66	60	56	58	62	63	68	67	62	57	61	53	54	67	71	73	70	68	67	63.6	EST
NEWARK AG FARM, DE	90	90	74	81	82	72	84	95	85	77	83	87	78	64	74	81	89	90	90	80	86	79	77	85	86	93	96	89	75	82	83.1	2400
U OF DE DEOS	67	67	64	64	62	57	51	63	71	65	61	65	60	57	57	61	62	67	65	63	55	60	52	53	66	68	70	70	66	66	62.6	EST
TOWNSEND 4 W, DE	87	85	71	80	80	72	82	93	83	75	79	86	75	63	70	78	86	88	89	79	81	77	77	82	83	90	91	88	73	79	80.7	2400
U of D DE Townsend Farm	64	65	64	65	63	55	53	61	70	64	59	62	61	54	54	59	61	66	62	62	56	61	49	52	65	68	69	71	65	64	61.4	EST
GEORGETOWN, DE	89	89	70	82	84	75	85	94	87	75	82	86	75	64	69	77	88	89	93	80	85	81	80	82	84	92	95	92	78	77	82.6	2400
NWS SUSSEX CO APT	62	63	66	66	62	56	53	68	65	60	64	60	57	57	60	59	66	66	61	60	56	50	55	65	70	71	72	68	64	62.1	EST	
GEORGETOWN, DE	87	88	69	82	83	74	85	95	87	76	81	87	75	64	69	77	88	90	92	80	83	80	79	84	83	92	93	91	78	77	82.2	2400
UofD RESEARCH & ED CTR	63	65	66	67	63	56	52	68	65	60	59	61	59	56	57	60	61	66	66	62	58	58	51	56	65	70	71	72	68	65	62.2	EST
HARBESON 8 S, DE	87	87	69	81	82	72	82	93	83	72	79	83	72	61	67	77	86	84	89	78	83	78	78	78	82	89	94	92	76	75	80.3	2400
UofD WARRINGTON FARM	63	64	65	65	62	55	52	67	63	60	58	63	59	56	56	60	60	66	66	60	58	58	48	54	64	70	70	72	67	63	61.4	EST
FROSTBURG	85	85	80	67	74	68	66	83	86	74	76	78	75	79	57	65	74	81	84	85	72	77	69	69	75	82	85	85	80	80	76.5	0700
LATTA	58	57	58	58	58	48	48	50	63	51	52	53	55	54	51	49	54	56	64	60	50	50	45	50	53	63	65	65	63	56	55.2	EDT
LAVALE	90	85	70	80	73	74	87	93	85	82	83	87	80	65	69	78	88	93	90	81	82	78	75	82	84	88	92	84	82	79	82.0	2400
MULLINS**	62	62	63	63	63	54	50	60	65	57	52	57	61	53	54	53	55	64	64	63	53	57	50	50	63	66	67	68	67	59	59.2	EDT
PASADENA 3 SW	89	87	73	85	83	77	83	96	87	77	85	90	83	67	72	81	92	94	92	86	89	83	84	85	86	93	97	95	75	82	84.9	2400
HANSON	64	65	66	65	63	56	51	64	70	64	61	60	62	60	55	57	60	68	68	62	52	60	50	55	72	70	72	73	68	64	62.5	EDT
LOTHIAN	90	91	89	M	93	95	M	M	96	88	M	87	90	81	69	71	80	92	95	95	85	M	87	83	M	89	95	98	93	M	88.3	0900
JUG BAY	63	65	67	62	63	61	M	M	53	60	M	60	61	60	54	55	59	66	68	71	62	M	49	54	M	69	71	70	70	M	62.2	EDT
BALTIMORE	91	88	72	83	82	76	85	95	87	76	84	89	82	67	72	80	89	94	92	84	87	82	82	85	87	92	97	92	75	81	84.3	2400
NWS BWI APT	65	66	66	64	63	55	52	65	68	64	61	60	61	60	58	56	62	70	70	64	56	60	50	57	71	72	72	72	69	66	63.2	EST
LAUREL 2 E	91	90	74	82	81	75	86	95	86	76	83	86	82	68	71	81	89	94	95	84	87	82	81	87	89	93	96	92	76	82	84.5	2400
STOUDT	67	68	66	65	63	58	54	67	69	64	63	61	62	59	59	58	64	72	70	66	59	62	54	57	71	72	73	74	71	66	64.5	EST
PARKTON 5SW	88	85	80	80	77	74	85	93	90	79	84	88	84	67	71	81	88	92	90	83	82	79	79	84	86	93	93	87	86	83	83.7	2200
KREINIK	52	55	64	52	60	65	49	64	65	68	58	58	59	56	50	55	58	66	60	60	50	51	45	52	64	63	68	64	63	68	58.7	EDT
OWINGS MILLS 2SE	88	87	73	80	79	73	84	94	84	74	83	86	83	67	70	79	86	90	91	80	84	78	78	84	87	91	94	87	74	81	82.3	2400
SHARROW	65	65	64	62	61	57	51	64	69	62	60	60	56	53	56	61	68	66	65	53	58	52	56	67	68	70	71	66	65	61.7	EDT	
BALTIMORE 2SE	95	91	77	89	86	79	89	98	91	80	88	94	86	71	76	86	95	96	95	88	92	86	86	91	92	95	99	93	79	85	88.3	1800
MANFRE	79	75	69	70	71	67	65	75	77	73	72	74	68	64	64	66	70	79	75	75	68	68	66	69	75	79	79	76	70	74	71.7	EDT
BALT INNER HARBOR	94	91	77	88	86	79	88	98	90	82	88	94	87	72	76	86	95	97	96	88	92	85	86	90	91	94	99	94	78	85	88.2	2400
MD SCIENCE CENTER	79	75	69	70	71	67	65	75	77	72	71	73	68	64	64	66	70	79	75	75	68	68	66	69	75	78	79	76	70	74	71.6	EST
MANCHESTER 1SW	87	85	74	77	76	70	84	93	81	76	82	85	83	64	69	79	87	90	91	80	84	77	78	82	84	92	95	86	72	80	81.4	2300
CLOSE	66	66	64	64	64	56	57	66	66	64	61	64	59	53	52	58	62	70	66	65	53	56	52	60	66	70	73	71	66	65	62.5	EDT
WESTMINSTER 4 SSE	89	88	78	80	77	72	82	94	82	79	82	87	89	73	71	76	85	92	92	77	85	76	76	81	88	94	95	88	74	82	82.8	2000
HARTSOCK	63	63	64	62	61	56	47	62	66	61	58	59	59	56	48	54	60	65	66	62	51	56	48	53	65	65	69	69	64	65	59.9	EDT
WESTMINSTER 5 SSE	86	83	73	78	77	70	80	90	80	76	80	84	80	66	70	75	84	88	87	77	81	75	75	80	84	88	91	86	72	78	79.8	2200
KLEIN	62	62	60	60	61	55	52	62	66	60	58	61	58	54	50	57	61	67	65	61	55	56	51	56	64	66	69	69	63	64	60.2	EDT
MILLERS 4NE	86	84	81	78	75	71	82	91	89	78	81	85	81	64	69	78	85	89	89	81	82	76	77	82	84	91	92	85	84	80	81.7	1800
MILLER	62	61	62	61	60	54	48	63	66	61	57	58	59	52	47	53	59	64	63	62	50	53	46	50	65	65	68	67	64	64	58.8	EDT
WESTMINSTER CITY	89	88	75	83	78	75	83	93	86	78	84	87	83	66	72	80	88	92	90	82	86	80	80	83	85	91	95	90	76	81	83.3	1900
MULLER	66	62	64	63	62	58	53	66	68	63	60	62	60	57	51	56	61	67	68	63	54	58	51	54	62	70	73	72	65	67	61.9	EDT
BRYANS ROAD 2 ESE	90	88	73	85	84	79	88	97	90	78	89	90	83	71	73	82	92	96	96	86	89	83	82	85	87	96	96	95	81	85	86.3	2400
BRUMBACK	66	68	66	66	65	59	55	70	67	63	61	61	61	60	54	57	60	67	70	67	56	63	53	56	71	70	73	73	70	70	63.8	EDT
EMMITTSBURG 2 SE	89	86	84	73	79	76	71	83	92	83	77	82	85	83	66	69	78	86	89	92	77	77	83	84	92	94	86	72	80	80	81.6	0700
GLASS	63	64	65	63	63	57	49	50	63	61	59	59	60	58	50	53	55	65	65	53	51	53	63	65	66	70	69	64	56	56	59.6	EDT

**ACON MD / DE / DC  
JUNE 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	AVG	OBS TIME	
FREDERICK 3 WNW	91	88	74	84	81	78	91	98	87	83	86	88	86	68	73	83	92	94	97	84	87	79	80	87	90	96	96	90	75	85	85.7	2300	
LAWRENCE	66	64	65	64	64	56	50	64	64	61	59	57	60	59	53	54	62	70	67	63	53	55	50	51	66	66	69	70	65	64	61.0	EDT	
EAGLE ROCK	82	70	82	80	72	68	69	86	86	72	76	79	80	80	69	66	76	82	82	82	72	76	70	70	70	84	88	86	80	69	76.8	0800	
HARVEY	59	61	60	58	56	48	48	62	60	48	52	53	52	50	49	52	64	62	59	48	48	48	42	48	60	64	68	64	60	52	55.3	EST	
LAUREL JHU / APL	90	89	75	82	80	74	87	96	84	76	84	87	81	67	71	80	88	94	93	81	86	78	79	86	90	92	95	89	75	82	83.7	2400	
GIANNOLA	68	67	65	64	65	58	53	66	69	65	63	62	61	58	57	56	65	72	71	67	61	62	55	58	70	72	72	72	68	68	64.3	EDT	
POTOMAC 4N	89	87	75	78	77	73	85	93	85	75	81	86	82	67	69	78	87	92	92	83	86	80	78	84	87	92	94	90	78	82	82.8	2100	
COHEN	66	65	65	64	61	61	53	66	67	64	61	59	61	52	56	56	58	67	70	70	54	59	52	56	71	70	71	70	71	69	62.8	EST	
OLNEY 1 S	90	87	74	80	79	75	85	93	88	74	82	85	79	66	68	>	>	>	>	>	>	>	>	>	91	87	91	93	90	77	82	82.5	2400
GIANNOLA	67	66	64	64	62	59	54	67	66	62	61	60	60	57	55	>	>	>	>	>	>	>	>	>	53	71	72	72	71	68	63.8	EDT	
MONTGOMERY VILLAGE	92	90	77	83	82	75	88	98	87	77	88	90	86	71	73	82	91	96	96	84	89	81	81	87	90	94	99	93	74	87	86.0	2400	
ROTH 1SW	69	67	65	64	61	60	54	67	67	64	62	60	61	59	57	57	63	69	71	68	57	60	55	58	72	73	72	73	71	70	64.0	EDT	
GLENMONT 1NNE	92	89	74	82	82	76	88	95	85	76	84	87	80	68	70	80	88	91	95	81	88	88	80	87	90	92	94	89	75	82	84.3	2400	
ROSSEN	66	66	66	65	62	55	52	65	64	61	61	59	60	56	55	56	59	67	69	62	54	54	52	55	70	71	71	71	70	67	62.0	EST	
BETHESDA	85	85	70	79	79	73	82	91	84	73	82	84	80	66	69	76	85	90	90	81	84	77	76	82	84	90	92	87	74	81	81.0	2400	
SCAFIDE	66	67	65	64	63	56	55	69	68	66	62	62	60	56	55	58	61	69	71	65	58	61	54	58	71	72	73	71	70	69	63.7	EDT	
GAITHERSBURG 2WNW	92	88	74	80	81	78	88	93	87	79	86	90	84	68	69	82	90	93	93	84	88	82	83	88	92	95	95	91	75	86	85.1	2400	
SHAW	67	65	65	64	60	57	51	65	63	59	60	57	60	56	53	54	59	67	70	63	53	57	51	55	71	72	72	71	70	66	61.8	EDT	
FOREST GLEN	91	89	75	84	83	77	88	96	87	77	87	88	84	70	72	82	90	95	95	85	88	82	81	86	90	95	96	92	77	85	85.6	2400	
TERRY	66	67	65	65	61	56	53	68	66	62	62	61	60	56	54	57	60	68	71	62	55	58	51	55	72	72	73	71	70	67	62.8	EDT	
ROCKVILLE 1NE	91	91	76	82	78	74	87	97	83	78	84	86	82	67	73	80	87	90	96	84	77	M	77	86	90	94	97	90	74	80	83.8	2400	
WASH GAS LIGHT	68	68	64	64	63	59	53	68	68	64	61	62	60	57	56	58	63	M	70	59	61	M	55	58	72	73	74	72	70	63	63.7	EDT	
OXON HILL	90	89	75	84	84	78	88	97	89	78	89	90	81	69	72	81	91	96	97	86	89	83	81	87	90	95	95	92	79	82	85.9	2300	
SMITH	67	70	66	66	66	62	56	69	73	68	64	64	60	55	59	63	70	72	72	58	68	58	59	72	72	74	74	71	71	66.1	EDT		
HOLLYWOOD	89	76	72	84	83	77	86	95	87	78	85	88	84	70	70	80	89	93	93	82	85	81	80	85	87	93	97	94	82	84	84.3	2359	
ABELL	68	69	66	67	68	65	57	70	73	64	62	62	62	61	57	59	61	71	71	70	58	65	55	58	70	72	74	75	72	71	65.8	EDT	
RIDGE	88	88	71	86	87	79	83	96	85	77	83	88	81	68	71	81	90	92	91	81	87	83	78	83	85	90	96	95	84	81	84.3	2400	
ZYLA	68	69	66	67	68	65	62	72	71	68	62	65	63	61	57	66	66	69	72	68	65	63	62	63	68	73	74	74	72	72	67.0	EDT	
SMITHSBURG 1.5 SW	90	87	75	82	76	73	87	93	83	83	85	88	84	67	71	81	87	92	93	81	84	77	78	84	87	94	94	85	75	83	83.3	2400	
HUTTO	62	63	64	63	60	53	47	62	58	53	57	54	61	52	48	50	55	63	65	64	48	54	47	50	67	63	69	68	67	60	58.2	EDT	
HAGERSTOWN 1E	90	87	74	83	77	74	85	94	83	82	84	87	83	67	69	80	88	91	93	82	85	78	79	84	86	94	94	87	74	83	83.2	2400	
KEEFER	65	64	65	64	61	56	49	65	62	56	59	56	61	56	50	51	59	67	68	66	53	53	50	54	68	67	73	71	66	65	60.7	EDT	
SMITHSBURG 2 NE	87	85	74	81	74	72	84	91	80	82	81	84	83	64	69	78	86	90	90	78	82	75	77	81	85	91	92	84	73	80	81.1	2400	
VAUGHN	64	65	64	63	60	56	53	68	61	56	60	60	60	55	50	53	59	66	68	67	52	56	50	54	69	66	71	70	66	64	60.9	EDT	
SALISBURY	88	88	69	83	84	76	83	93	87	77	81	86	76	62	67	77	88	92	92	80	84	82	79	85	83	90	93	93	83	78	82.6	2400	
NWS WICOMICO CO APT	54	62	65	67	57	50	46	65	65	55	54	56	55	53	55	57	51	64	63	52	50	48	43	49	65	69	68	72	67	59	57.9	EST	
WASH NATIONAL	88	86	74	84	83	76	85	93	88	78	86	88	82	69	72	79	90	95	96	87	89	83	80	87	88	93	96	93	78	84	85.0	2400	
NWS ASOS	67	70	67	66	67	63	61	71	71	68	67	66	64	60	59	61	64	72	73	69	61	66	59	62	73	74	75	74	73	72	67.2	EST	
WASH DULLES	90	89	74	84	84	78	87	97	89	81	87	89	86	67	72	79	89	94	95	84	88	82	80	85	90	92	97	92	77	86	85.5	2400	
NWS ASOS	67	64	66	66	64	57	73	67	65	61	60	58	62	58	56	55	59	66	67	65	54	61	53	55	70	70	71	71	70	69	63.3	EST	
STERLING 4 N	88	86	75	80	80	76	87	94	87	79	84	84	80	67	69	78	87	90	91	83	84	79	78	82	87	90	95	89	76	82	82.9	2400	
SHAFFER	68	67	66	66	64	61	55	66	67	62	63	61	63	59	57	58	60	67	71	68	57	60	54	57	70	71	72	72	70	64.1	EDT		
DAVIS 3 SE WV	78	78	74	61	68	63	62	79	80	71	71	73	73	73	63	63	71	78	80	80	68	71	66	68	74	79	81	81	75	64	72.2	0700	
LESHER	56	56	57	54	53	47	47	56	59	44	49	52	51	52	47	48	48	49	63	56	47	48	41	46	54	62	64	62	50	56	52.5	EDT	

**ACON MD / DE / DC  
JUNE 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	TOTAL	OBS TIME
BEAR 2 SW, DE GALLAHER			1.23	0.42		T					0.17	0.47	0.01	T					0.10	0.17					0.83		T	T	0.06		3.46 0.0	2400 EDT
WILMINGTON, DE NWS NEW CASTLE CO APT			1.01	0.51		T		0.01	T	T	0.42	0.20	T	T	T	0.01			0.11	0.05					0.28		0.04	0.01	0.07		2.72 0.0	2400 EST
NEWARK AG FARM, DE U OF DE DEOS			1.13	0.67				0.21	0.04		0.33	0.35								0.15					0.30		0.02	0.12	0.02	0.01	3.35	2400 EST
TOWNSEND 4 W, DE U of D DE Townsend Farm			1.55	0.14		0.02					0.87	0.26	0.01						0.13	0.18					0.56		0.06	0.17	0.01	3.96	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT			1.44	0.05		0.10					T	0.01		0.01		0.04									0.20		0.51	0.02	0.05		2.53 -	2400 EST
GEORGETOWN, DE UofD RESEARCH & ED CTR			0.91	0.15		0.06					0.10	0.03	0.01	0.01							0.18				0.32		0.78		0.09		2.64	2400 EST
HARBESON 8 S, DE UofD WARRINGTON FARM			1.48	0.08		0.27						0.20									0.08				0.14		0.06	0.16	0.43		2.90 0.0	2400 EST
FROSTBURG LATTA	T	1.47	0.22	0.86	0.02	0.18	0.01		0.02				0.66	0.11	0.06						0.18				0.01	T		0.01	0.27	0.02	4.41 0.0	0700 EDT
LAVALE MULLINS**	0.83	0.21	0.23	0.03	0.08	0.02		0.01				0.43	0.72	0.03					T	0.29	0.01	0.24			T	T	0.12		0.21	0.03	3.49 0.0	2400 EDT
PASADENA 3 SW HANSON			0.91	0.85	0.01							0.02	0.03								0.09	0.21						0.13	0.01		2.26 0.0	2400 EDT
LOTHIAN JUG BAY		T	0.03	1.42	0.01	0.06	M	M	1.11	0.01	M	0.14	0.48	0.01		T	T				0.18	0.02	M	0.04		M		0.19	0.36		4.06 0.0	0900 EDT
BWI NWS ASOS			1.18	0.35		T		T		T	T	T	0.12	T						0.12	0.05	0.18			0.02	0.01		0.16	0.01		2.20 0.0	2400 EST
LAUREL 2 E STOUDT			>	1.76		0.01		T				0.07	0.30							T	0.16	0.10			0.01			0.03	0.02		2.46 0.0	2400 EST
PARKTON 5SW KREINK		0.06	0.10	0.09					0.08	T		0.11	0.02	0.45							0.16	T			T			0.03	0.24	T	1.34 0.0	2200 EDT
OWINGS MILLS 2SE SHARROW		T	0.55	0.04	T	0.04				0.04		0.08	0.79	T						T	0.04	0.04			T	0.08	T	T	0.31		2.01 0.0	2400 EDT
BALTIMORE 2SE MANFRE			0.97	0.10						T			0.71							0.01	0.09	T			0.15			0.50	0.16	0.01	2.70 0.0	1800 EDT
BALT INNER HARBOR MD SCIENCE CENTER			0.70	0.10		0.01							0.87							0.01	0.02	0.05			0.02			0.52	0.15		2.45 -	2400 EST
MANCHESTER 1SW CLOSE	0.45		0.23	0.09		0.01		0.23				0.11	0.59	0.01						0.09	0.02	0.07			0.02		0.07	0.01	0.16		2.16 0.0	2300 EDT
WESTMINSTER 4 SSE HARTSOCK		0.23	0.39	0.05		0.02						0.13	0.68							0.01	0.03	0.13			0.10		0.02		0.28		2.07 0.0	2000 EDT
WESTMINSTER 5 SSE KLEIN		0.23	0.32	0.05								0.12	0.74								0.05	0.13			0.11				0.32		2.07 0.0	2200 EDT
MILLERS 4NE MILLER		0.41	0.14	0.17		0.01		0.13	T		0.17	0.06	0.05							T	0.14	T			0.02		T	0.10	0.33	T	1.73 0.0	1800 EDT
WESTMINSTER CITY MULLER		0.60	0.14	0.12		0.06		0.10			0.10	0.66	T							0.06	T	0.19			0.03			0.12	0.02		2.20 0.0	1900 EDT
BRYANS ROAD 2 ESE BRUMBACK				0.59	0.09		T		T			0.37	0.05								0.15	0.02	0.06					0.02	0.14	0.11	1.60 0.0	2400 EDT
EMMITTSBURG 2 SE GLASS		0.37		0.31		0.05		0.12				0.17	0.35							0.07							0.05	0.35			1.84 0.0	0700 EDT

**ACON MD / DE / DC  
JUNE 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	TOTAL	OBS TIME	
FREDERICK 3 WNW LAWRENCE	0.06	0.03	0.80	0.06		0.01		0.22				0.51	0.76	0.03					0.02	0.06	0.20								0.03		2.79 0.0	2300 EDT	
EAGLE ROCK HARVEY	0.10		0.01	0.75	0.24	0.15			0.02				1.08	0.08	0.01					0.30		0.45						0.03	0.42	0.52	4.16 0.0	0800 EST	
LAUREL JHU / APL GIANNOLA			0.75	0.43		0.04						0.13	1.83							0.05	0.07				T			0.05	0.03		3.38 0.0	2400 EDT	
POTOMAC 4N COHEN			0.48	0.84				0.87		0.03		0.40	0.67	0.03						0.04	0.09			T	0.03		0.06	T	0.04		3.58 0.0	2100 EST	
OLNEY 1 S GIANNOLA			0.41	0.55		0.03		0.14		2.23		0.16	1.69	0.02		>	>	>	>	>	>	>	>	0.08			0.01	>	0.07		5.39 0.0	2400 EDT	
MONTGOMERY VILLAGE ROTH 1SW	0.06	0.06	0.57	0.33		0.02		0.07		0.01		0.07	0.88	0.02					0.08	0.02	0.02						0.01	0.04	0.03		2.29 0.0	2400 EDT	
GLENMONT 1NNE ROSSEN			0.57	0.31		0.01		0.36				0.07	2.45	0.01					T	0.01	0.04			T	T		T	0.06	0.02		3.91 0.0	2400 EST	
BETHESDA SCAFIDE			0.44	0.01				1.01		0.08		0.02	0.88	0.01						0.01	0.04						0.09	0.47	0.02		3.08 -	2400 EDT	
GAITHERSBURG 2WNW SHAW	0.17	0.07	0.45	0.45		0.01		0.26		0.51		0.31	1.07	0.03					0.20	0.02	0.08							0.05	0.02		3.70 0.0	2400 EDT	
FOREST GLEN TERRY			0.72	0.59		0.02		1.00				0.04	1.81	0.02						0.02	0.13				t	t	t	0.28	0.02		4.65 0.0	2400 EDT	
ROCKVILLE 1NE WASH GAS LIGHT			0.47	0.80				0.48		T		T	0.94	0.01						0.10		M		T			0.05	T	0.02		2.87 0.0	2400 EDT	
OXON HILL SMITH			0.65	0.17	0.05	0.03		0.02		T		0.63	0.18	0.02					T	0.21	0.07						0.36	0.50	T	T		2.89 0.0	2300 EDT
HOLLYWOOD ABELL			1.23	0.10		T		0.01				0.23								0.73	T				0.04			0.05	0.06	0.67		3.12 0.0	2359 EDT
RIDGE ZYLA		0.01	0.73	0.11			0.02		0.05			0.26							0.10	0.08				0.26			0.12	0.35	0.02	0.53		2.64 0.0	2400 EDT
SMITHSBURG 1.5 SW HUTTO	0.31	0.34	0.27	0.06	0.02	0.03		0.44				0.37	0.39	0.10					0.03		0.32				0.01		0.04	0.07	0.52		3.32 0.0	2400 EDT	
HAGERSTOWN 1E KEEFER	0.34	0.02	0.45	0.12	0.06	0.04		0.30				0.19	0.80	0.17					0.05		0.23				T		T	0.05	0.66		3.48 0.0	2400 EDT	
SMITHSBURG 2 NE VAUGHN	0.36	0.02	0.27	0.05	0.02	0.04		0.69				0.19	0.19	0.06					0.05								0.22	0.04	0.60		2.80 0.0	2400 EDT	
SALISBURY NWS WICOMICO CO APT			1.23	0.14	T	0.02		0.06	0.02		T	0.25			T					0.08	T				0.36		0.14	0.01	0.01	0.16		2.48 0.0	2400 EST
WASH NATIONAL NWS ASOS	T	T	0.88	0.12	T	0.01		0.05		T		0.14	0.06	0.03					T	0.01	0.04			T	T		T	0.04	T	T		1.38 0.0	2400 EST
WASH DULLES NWS ASOS			0.35	0.05	T					0.32		0.19	1.15	0.01					0.02	0.01	0.01			T	T	0.18		0.62	0.01		2.92 0.0	2400 EST	
STERLING 4 N SHAFFER	0.10	0.71	0.30	0.29	T	0.01		T		0.01	T	0.23	0.96	0.10					0.01	0.05	0.05			T	0.02			0.12	0.02		2.98 0.0	2400 EDT	
DAVIS 3 SE WV LESHER	0.22		T	0.69	0.04	0.27			0.43				0.56	0.02	0.02					0.72		0.35						0.49	0.77	0.59		5.17 0.0	0700 EDT