



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

HUMID CONDITIONS - NUMEROUS THUNDER-STORMS WITH RECORD PRECIPITATION AT SOME STATIONS BETWEEN THE BAY AND MOUNTAINS.

July 2005 went into the record books as a humid, wet month. Numerous thunderstorms, some strong to severe, rolled across the region dropping heavy rains at many but not all locations.

Two tropical systems, Tropical Storm Cindy which made landfall on the Mississippi River Delta of Louisiana and Hurricane Dennis which made landfall on the western Florida Panhandle affected our weather. Cindy's remnants became a low pressure center on a stationary cold front and moved across southern portions of Maryland and Delaware. Dennis's remnants, which moved into the southern Ohio River Valley and dissipated, brought tropical moisture which became fuel for thunderstorms.

Cindy's rains were generally in the 2 to 4 inch range on the 7th and 8th. The heaviest, 5.63", fell at Salisbury Wicomico Co Airport. The heaviest rains observed by ACON observers fell in Carroll County. **Al Kreinik of Parkton 5SW** recorded 4.46", **Ray Muller of Westminster City** 4.00", **Bobby Miller of Millers 4NE** 3.84", **Greg Klein of Westminster 5SSE** 3.74", **Herb Close of Manchester 1SW** 3.72" and **Ralph Hartsock of Westminster 4SSE** 3.54".

Rains from moisture associated with the remnants of Dennis were lighter. Amounts ranged from less than an inch to over 4 inches. **Bobby Miller of Millers 4 NE** measured 4.26" from the 14th to 17th. Other heavy amounts reported were

3.04" by **Joe Manfre of Baltimore 2 SE**, 2.79" by **Jeff Stoudt of Laurel 2 E**, 2.58" by **Stan Rossen of Glenmont 1 NNE** and 2.08" by **Rob Cohen of Potomac 4N**.

Dennis's remnants brought oppressive tropical humidity into the region. Minimum temperatures failed to drop below 70 from the 13th to the 20th at most locations east of the Mountains.

Numerous thunderstorms, some with heavy flooding rains, occurred from the 5th to 27th. Pea size hail was reported by **Joe Terry of Forest Glen** as severe damaging thunderstorms moved across portion of the DC metropolitan area early on the 23rd. **Manuel Farfan of Frederick 4N** reported that 1.32" fell in 12 minutes the evening of the 5th. Severe thunderstorms moved north through the Frederick / Cumberland region mid afternoon of the 14th leaving behind creek, and underpass flooding and power outages. **Nate Mullins** observers **Charles Orlick** and **David Drewery of LaVale** reported 2 inches fell between 3 & 4 PM. Another severe thunderstorm moved through Carroll County shortly before midnight of the 16th. **Bobby Miller of Millers 4NE** observed 2.6 inches in one hour causing flash flooding.

A line of strong thunderstorms moved across the region ahead of a cold front on the 27th. **Joe Terry of Forest Glen** reported 1" of rain in 15 minutes. **Gary Gallaher of Bear 2SW DE** reported a 50 MPH

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	101
Ridge	100
Hollywood	100

MINIMUM TEMPERATURE

Eagle Rock	52
Davis 3 SE WV	53
Frostburg	55

WARMEST AVG. TEMP.

Baltimore 2 SE	82.2
Hollywood	80.3

COLDEST AVG. TEMP.

Davis 3 SE WV	67.9
Eagle Rock	70.7
Frostburg	71.0

MAXIMUM PRECIPITATION

Millers 4 NE	12.69
Frederick 4 N	9.80
Forest Glen	9.12

MINIMUM PRECIPITATION

Jug Bay Wetlands	2.97
Hollywood	3.06
Frostburg	3.83

wind gust.

The hottest temperatures since August 2002 were observed this month. The century mark was broken in Southeastern Maryland. **Karyn Molines of Jug Bay Wetlands** observed 101, while **Floyd Abell of Hollywood** and **John Zyla of Ridge**, both St Marys County observers, recorded 100 degrees.

OBSERVER COMMENTS FOR JULY 2005

Gary Gallaher of Bear 2 SW, DE

1st - Dense fog at sunrise

27th - Strong thunderstorm with heavy rain and a 50 MPH wind gust. Some scattered tree damage.

Greg Latta of Frostburg

Thunder was observed on 10 days this month.

Nate Mullins of LaVale

Warmest July since 1999. Very dry after the 17th.

13th - 2.20" rain second heaviest July daily rain (since 1992). Over 3" fell in Cumberland causing flooding of roads and basements. Two transformers at a substation were struck by lightning knocking out power to 2,500 customers.

Jeff Stoudt of Laurel 2 E

Thunderstorms were common with many direct hits on this neighborhood. In some events, areas close by got little rain while getting drenched here. The result was a July total that beat last July's impressive total which was also over 8 inches.

Al Kreinik of Parkton 5 SW

8th - Heavy rain due to "Cindy". Some roads washed out. Low part of property under water.

Marty Sharrow of Owings Mills

15th - Very humid; lots of clouds, some sun

26th - Hazy sun, hot & humid

28th - Decreasing cloudiness; less humid, cooler.

Joe Manfre of Baltimore 2SE

26th & 27th - Partly cloudy, very hot, very humid.

Herb Close of Manchester 1 SW

Records set this month: Wettest July 8.95" - Old record was 8.09" set in 1995; Daily rainfall for July of 3.35" set on the 8th.

6th - Heavy thunderstorm after 11PM obs. Most of the 2.03" recorded on the 7th fell between 11PM & midnight of the 6th.

Ralph Hartsock of Westminster 4 SSE

16th - Mid day heavy thunderstorms. very humid

22nd - Sunny & hot. Overnight storms nearby.

25th - Heavy AM storms.

Bobby Miller of Millers 4 NE

Wettest month on record (records date back to Aug. 1981) with 12.69". Old wettest month was 9/87 when 10.86" fell. Thunder occurred on 12 days.

5th - Thunderstorm with heavy rain 1:00 - 1:30 PM. More heavy rain 11PM - Midnight but not as much thunder.

6th - Heavy rain continued from the 5th.

16th - Severe thunderstorm-11PM vivid lightning, sharp thunder, 2.6" of rain fell in one hour, 11:15PM to 12:15AM 7/17. More gravel roads washouts, flash flooding, streams over banks.

Manuel Farfan of Frederick 4 N

5th - Very heavy rain with strong thunder around 9 PM. 1.32" of rain fell in only 12 minutes.

14th - Strong thunder and heavy rain late this morning ending around 2 PM. Again, local flooding in creeks and overpasses.

25th—27th - Hazy, hot and very humid. Heat index 107 each day.

Rebecca Harvey of Eagle Rock

Thunder reported on 11 days.

Rob Cohen of Potomac 4 N

Wettest July on record.

23rd - Thunder 1AM with possible hail.

Rich Giannola of Olney 1 S

18th - Rainbow observed at 6:40 PM.

Stan Rossen of Glenmont 1 NNE

Wettest July in 29 years of records here with 8.60". Old record was 7.27" set in 2004. Three of the four (4) wettest Julys occurred in the past three (3) years.

7th - 2.59" tied the daily record for July set on 7/29/2004

23rd - 1.30" of rain fell in 30 minutes between 0014 and 0043 hours.

Kevin Shaw of Gaithersburg 2 WNW

July was a wet, humid, hot month with little respite to the "steam bath" conditions. Minimum temperatures averaged 3.3 degrees above normal while maximum temperatures only 0.3 degrees above. It was the third wettest July in 26 years.

8th - 2.26" set a daily precipitation record.

Joe Terry of Forest Glen

Wettest July since station inception.

12th - Hottest day since 8/22/2002.

15th - Extremely close lightning discharge damages several instruments including automated station in mid-afternoon thunderstorm. 1.02" fell.

23rd - Early AM near severe thunderstorm. Lightning flash every second, per size hail, and very heavy rain. Magnificent lightning display south afterwards. Hail occurred from 0130 to 0135.

27th - Strong late afternoon and early evening thunderstorm produced 1" of rain in about 15 minutes. Power out for 17 hours.

Brian Smith of Oxon Hill

22nd - Dry thunderstorm SE 1750 - 1820 moving SE

John Zyla of Ridge

Highest average low (72.3) for July in station history.

10 thunderstorms - all but one didn't drop much rain.

28th - 81 degrees warmest overnight low in station history.

29th - First 100 degree reading since 8/1/1999

Max Hutto of Smithsburg 1.5 SW

15th - AM fog, very warm, humid, mid day thunderstorms / heavy rain & breezy.

28th - Mostly sunny, less humid, cooler, breezy.

Greg Keefer of Hagerstown 1 E

6th - A small but drenching thunderstorm 9:30 - 10:00 PM dropped a very quick 0.76" of rain. Wind gusted to 28 mph.

15th—18th - Hot, hazy with very oppressive humidity.

27th - Heat index averaged 102 this afternoon. Intense thunderstorm between 4:30 & 5:00 PM with wind gusts to 33 MPH and sharp frequent lightning. Main part of storm was to south and east.

Jim Vaughn of Smithsburg 2 NE

July was the tied for the 4th hottest July on record. It started off and ended up dry but somehow in the middle it rained just enough to be one of the wettest (5th) Julys on record.

16th - Minimum of 76 set a daily record and tied for the second warmest July minimum temperature and the third highest for any month.

Lance Shaffer of Sterling 4 N VA

3rd - 64 degrees - Cool start to the day

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

ACON MD / DE / DC
JULY 2005 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
<i>New Castle, Delaware</i>																								
Canavan, Jim	Wilmington 4 NNE																7.75						2400	
Gallaher, Gary	Bear 2 SW	86.9	67.9	77.4	96	27	57	24	9	0	0	50	NW	28	3.86	1.53	8	25.85	10	1	0.0	0.0	0.0	2400
NWS Wilmington	New Castle Co. Apt.	85.5	68.4	77.0	96	27	60	9+	7	0	0	36	NW	27	4.83	1.52	8	25.05	9	1	0.0	0.0	0.0	2400
U of D Townsend Farm	Townsend 4W	85.1	66.6	75.9	93	27	58	9+	3	0	0				6.55	1.91	8	11.81	14	3			0.0	2400
<i>Sussex, Delaware</i>																								
NWS Georgetown	Sussex Co. Airport	86.2	69.5	77.9	98	27	60	9	8	0	0	30	WNW	27	6.26	2.01	8	28.50	12	2				2400
U of D Research & Ed Ct	Georgetown	86.3	69.3	77.8	97	27	61	9	9	0	0				4.96	1.99	8	26.11	12	1			0.0	2400
U of D Warrington Farm	Harbeson 8 S	85.3	68.3	76.8	97	27	60	9	8	0	0				6.24	2.64	8	31.59	12	2			0.0	2400
<i>Allegany, Maryland</i>																								
Latta, Greg	Frostburg	80.6	61.4	71.0	88	27	55	9+	0	0	0				3.83	1.57	8	24.26	11	1	0.0	0.0	0.0	0700
Mullins, Nate**	LaVale	84.3	65.1	74.7	92	27	56	24	2	0	0				5.93	2.20	13	26.66	12	2	0.0	0.0	0.0	2400
<i>Anne Arundel, Maryland</i>																								
Bryant, Dave	St. Margarets																17.62							2400
Hanson, Dan	Millersville 1 SE	89.1	68.3	78.7	99	27	59	24	15	0	0	30	W	27	5.51	1.58	8	26.99	15	2	0.0	0.0	0.0	2400
Jug Bay Wetlands	Lothian	89.8	67.8	78.8	101	28	57	24	13	0	0				2.97	1.57	8	26.91	12	1	0.0	0.0	0.0	0900
NWS Baltimore	BWI Airport	86.9	69.0	78.0	96	27	60	24	12	0	0	44	NW	27	8.77	2.79	16	29.50	10	3	0.0	0.0	0.0	2400
Stoudt, Jeff	Laurel 2 E	87.7	69.7	78.7	97	27	62	24	11	0	0				8.97	2.74	1-8	31.61	10	4	0.0	0.0	0.0	2400
<i>Baltimore, Maryland</i>																								
Kreinik, Al	Parkton 5 SW	85.8	65.2	75.5	94	27	55	24	6	0	0				6.92	3.73	8	28.81	9	1	0.0	0.0	0.0	2200
Sharrow, Marty	Owings Mills 2 SE	85.0	67.6	76.3	95	27	60	3+	5	0	0				4.17	2.13	8	24.73	8	2	0.0	0.0	0.0	2400
<i>Baltimore City, Maryland</i>																								
Manfre, Joe	Baltimore 2 SE	90.1	74.2	82.2	99	27	65	8	18	0	0				7.22	2.43	16	26.38	11	2	0.0	0.0	0.0	1800
Maryland Science Ctr	Baltimore Inner Harbor	89.3	73.2	81.3	99	27	65	8	14	0	0				6.53	2.31	16	27.19	10	2				2400
<i>Carroll, Maryland</i>																								
Close Jr, Herb	Manchester 1 SW	84.2	67.8	76.0	91	27	61	9	3	0	0				8.95	3.35	8	30.07	14	2	0.0	0.0	0.0	2300
Hartsock, Ralph	Westminster 4 SSE	87.2	66.8	77.0	94	27	58	24	8	0	0	23		8	7.18	3.47	8	28.11	12	2	0.0	0.0	0.0	1900
Klein, Greg	Westminster 5 SSE	83.9	66.1	75.0	92	27	59	9	2	0	0				7.34	3.53	8	27.33	12	2	0.0	0.0		2200
Miller, Bobby	Millers 4 NE	85.2	66.1	75.7	92	27	56	24	4	0	0	33	N	25	12.69	3.78	8	33.46	12	5	0.0	0.0	0.0	1800
Muller, Ray	Westminster City	86.5	67.8	77.2	94	27	60	23	8	0	0	30	ENE	8	8.11	2.98	8	31.51	12	3	0.0	0.0	0.0	2200
<i>Frederick, Maryland</i>																								
Farfan, Manuel	Frederick 4 N	87.5	68.0	77.8	97	27	59	24	10	0	0				9.80	2.81	14	27.60	12	4	0.0	0.0	0.0	2400
<i>Garrett, Maryland</i>																								
Harvey, Rebecca	Eagle Rock	79.9	61.5	70.7	86	12+	52	9	0	0	0				5.49	1.80	8	29.41	13	1	0.0	0.0	0.0	0800
<i>Harford, Maryland</i>																								
Albright, Lynn	Fallston 2 NW																12.04							2400
<i>Howard, Maryland</i>																								
Giannola, Rich	Laurel JHU / APL	87.1	69.6	78.4	97	27	63	8+	10	0	0	39	WNW	27	6.88	2.02	8	25.48	12	1	0.0	0.0	0.0	2400

**ACON MD /DE / DC
JULY 2005 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	85.1	69.2	77.2	95	27	60	24	5	0	0				7.95	2.35	8	30.67	15	2	0.0	0.0	0.0	2100
Giannola, Rich	Olney 1 S	<u>86.0</u>	<u>69.1</u>	<u>77.6</u>	96	<u>27</u>	62	<u>24</u>	<u>4</u>	0	0				6.53	2.55	7-8	28.25	10	2	0.0	0.0	0.0	2400
Roth, David	Montgomery Village 1SW	88.1	69.1	78.6	99	27	61	24	12	0	0	15	WNW	25	7.31	2.36	8	27.72	11	3	0.0	0.0	0.0	2400
Rossen, Stan	Glenmont 1 NNE	86.6	68.5	77.6	97	27	60	24	11	0	0	14		8	8.60	2.59	8	29.59	12	4	0.0	0.0	0.0	2400
Scafide, Tony	Bethesda	84.4	69.5	77.0	94	27	62	24	3	0	0	15		8	5.44	1.77	8	<u>14.95</u>	15	1				2400
Shaw, Kevin	Gaithersburg 2 WNW	86.9	67.9	77.4	97	27	59	24	10	0	0				6.84	2.26	8	29.78	10	2	0.0	0.0	0.0	2400
Terry, Joe	Forest Glen	88.9	68.7	78.8	98	26+	59	24	14	0	0	31	W	1	9.12	2.83	8	32.55	14	3	0.0	0.0	0.0	2400
Wash Gas Light	Rockville 1 NE	84.3	67.2	75.8	98	27	56	9	6	0	0				6.33	1.68	8	<u>21.69</u>	13	3	0.0	0.0	0.0	2400
<i>Prince Georges, Maryland</i>																								
Smith, Brian	Oxon Hill	89.1	70.7	79.9	99	27	63	24	15	0	0				5.42	1.75	15	28.16	11	2	0.0	0.0	0.0	2400
<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	89.2	71.3	80.3	100	27	62	24	16	0	0	28		8	3.06	1.05	8	26.23	9	1	0.0	0.0	0.0	2400
Zyla, John	Ridge	87.6	72.6	80.1	100	27	66	4	11	0	0	28	NE	27	4.81	2.10	8	24.72	10	1	0.0	0.0	0.0	2400
<i>Washington, Maryland</i>																								
Hutto, Max	Smithsburg 1.5 SW	86.5	65.4	76.0	93	27	56	24	6	0	0	24	WNW	25	5.86	1.52	15	22.87	15	2	0.0	0.0	0.0	2400
Keefer, Greg	Hagerstown 1 E	87.8	67.5	77.7	96	27	58	24	10	0	0	34	W	19	4.86	1.55	8	23.10	12	1	0.0	0.0	0.0	2400
Vaughn, Jim	Smithsburg 2 NE	90.5	67.8	79.2	98	12	59	24	19	0	0	52	N	25	5.73	1.98	17	22.38	11	2	0.0	0.0	0.0	2400
<i>Wicomico, Maryland</i>																								
NWS Salisbury	Wicomico Co. Apt	87.0	66.7	76.9	98	27	58	24	10	0	0	35	NNW	27	7.08	5.63	8	33.25	9	1	0.0	0.0	0.0	2400
<i>Arlington, Virginia</i>																								
NWS Washington Nation: National Airport		88.3	72.6	80.5	97	26+	66	8+	13	0	0	45	NNW	27	6.06	2.14	8	27.27	12	2	0.0	0.0	0.0	2400
<i>Loudon, Virginia</i>																								
NWS Washington Dulles	Dulles Airport	86.9	68.8	77.9	96	27	61	24	9	0	0	54	NW	27	7.89	1.96	8	27.49	14	4	0.0	0.0	0.0	2400
Shaffer, Lance	Sterling 4 N	85.5	70.4	78.0	96	27	64	3+	7	0	0				7.01	3.04	7-9	30.27	16	1	0.0	0.0	0.0	2400
<i>Tucker, West Virginia</i>																								
Leshner, Dave	Davis 3 SE WV	75.7	59.5	67.6	83	27	53	9+	0	0	0				6.62	1.96	8	37.36	20	2	0.0	0.0	0.0	0700
SECTION AVERAGE*		86.5	68.3	77.4											6.57						0.0			

NOTES:

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

*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 11/22/05 Rev 1/29/06

**ACON MD / DE / DC
JULY 2005 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	
WILMINGTON 4NNE CANAVAN																																		2400 EDT
BEAR 2 SW, DE GALLAHER	89	85	83	86	84	86	76	73	86	89	91	93	86	86	89	85	87	91	91	88	91	92	86	87	90	94	96	83	84	84	84	86.9	2400 EDT	
WILMINGTON , DE NWS NEW CASTLE CO APT	84	85	81	84	81	85	75	72	85	88	89	92	83	84	86	81	87	90	91	88	90	92	87	85	88	94	96	82	81	82	82	85.5	2400 EST	
TOWNSEND 4W, DE UofD TOWNSEND FARM	87	84	82	85	84	83	75	74	83	86	88	92	84	84	86	87	89	89	89	87	89	89	85	84	87	92	93	81	80	82	81	85.1	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT	86	82	79	81	86	84	74	79	85	89	90	93	87	84	85	86	89	91	92	86	92	91	89	88	89	95	98	83	79	80	81	86.2	2400 EST	
GEORGETOWN, DE UofD RESEARCH & ED CTR	87	82	79	82	87	83	75	79	85	88	89	93	88	84	86	86	90	91	92	90	92	91	87	88	88	95	97	83	79	79	80	86.3	2400 EST	
HARBESON 8 S, DE UofD WARRINGTON FARM	69	68	64	62	68	71	68	65	61	65	65	66	73	72	73	74	75	76	73	68	73	67	62	69	74	73	69	69	70	68	69.3	2400 EST		
FROSTBURG LATTA	85	83	76	76	82	82	78	76	74	76	81	82	84	82	74	82	83	83	82	82	83	82	82	79	79	83	88	85	73	80	82	80.6	0700 EST	
LAVALE MULLINS**	64	60	56	60	61	64	58	59	55	56	57	60	64	65	67	67	66	66	70	66	61	63	62	55	55	62	64	61	58	58	62	61.4	2400 EDT	
ST MARGARETS BRYANT	88	82	82	84	85	84	82	74	84	83	86	88	88	75	90	86	84	88	85	87	83	83	81	80	86	88	92	84	85	83	83	84.3	2400 EDT	
MILLERSVILLE 1SE HANSON	66	64	58	64	67	65	62	63	60	58	59	64	69	67	70	70	69	69	72	68	65	66	61	56	68	66	69	65	62	64	65.1	2400 EDT		
MILLERSVILLE 1SE HANSON	92	89	85	88	85	88	82	81	89	92	93	93	90	84	88	85	91	93	95	93	95	92	90	89	95	99	99	85	77	85	84	89.1	2400 EDT	
LOTHIAN JUG BAY	70	69	63	63	70	68	67	65	62	62	62	65	74	72	72	73	72	74	74	72	67	71	65	59	69	74	72	66	70	70	66	68.3	0900 EDT	
BALTIMORE NWS BWI APT	M	94	86	85	87	88	88	81	81	88	91	92	94	89	88	87	90	94	M	96	95	95	95	91	89	96	M	101	86	83	84	89.8	0900 EDT	
BALTIMORE NWS BWI APT	M	69	64	61	70	62	67	65	61	62	62	68	71	71	72	73	71	73	75	74	67	69	68	57	69	71	M	66	70	71	66	67.8	2400 EST	
LAUREL 2 E STOUDT	90	87	84	85	85	86	81	80	86	89	90	92	87	85	86	83	90	90	90	90	92	92	87	86	91	94	96	81	76	82	81	86.9	2400 EST	
LAUREL 2 E STOUDT	71	73	63	63	70	69	68	64	62	63	64	68	75	72	73	73	74	75	74	73	68	71	65	60	68	74	73	67	69	70	66	69.0	2400 EST	
PARKTON 5SW KREINIK	91	88	85	86	86	87	82	81	87	89	90	93	89	84	84	84	89	91	92	90	93	91	88	87	93	96	97	81	78	83	85	87.7	2400 EST	
PARKTON 5SW KREINIK	72	74	64	64	71	68	69	65	63	64	66	69	70	71	73	72	73	76	77	75	70	73	68	62	68	76	75	67	69	68	69	69.7	2200 EDT	
OWINGS MILLS 2SE SHARROW	89	84	81	88	82	82	84	77	84	88	89	91	85	85	83	84	88	89	89	87	90	90	83	84	91	92	94	80	82	85	81	85.8	2400 EDT	
OWINGS MILLS 2SE SHARROW	68	64	58	58	66	67	67	62	58	57	57	64	71	71	71	73	72	72	71	69	64	68	63	55	57	70	71	65	63	65	63	65.2	2400 EDT	
BALTIMORE 2SE MANFRE	89	82	82	85	84	82	84	74	83	87	87	91	84	81	81	80	86	88	88	88	88	91	90	84	85	89	93	95	80	78	84	79	85.0	2400 EDT
BALTIMORE 2SE MANFRE	70	67	60	64	70	67	67	61	60	63	64	68	71	71	71	73	71	73	73	71	68	70	70	60	65	72	73	62	65	68	67	67.6	1800 EDT	
BALTIMORE 2SE MANFRE	92	87	86	89	90	89	85	81	90	93	92	94	91	88	90	85	93	94	95	91	96	93	89	91	96	98	99	85	84	85	82	90.1	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER	77	76	70	69	73	71	74	65	69	73	74	76	76	75	73	73	76	78	79	78	78	76	77	72	71	81	83	71	72	73	72	74.2	2400 EST	
BALT INNER HARBOR MD SCIENCE CENTER	92	87	86	88	89	86	85	80	89	91	92	94	90	87	89	84	91	93	94	91	94	94	88	89	94	97	99	84	83	85	83	89.3	2400 EST	
MANCHESTER 1SW CLOSE	76	74	70	69	71	71	69	65	68	71	73	76	75	73	73	74	78	78	79	76	76	77	70	69	80	76	71	72	72	73	73.2	2300 EDT		
MANCHESTER 1SW CLOSE	87	83	80	83	81	82	82	75	83	86	87	90	83	82	82	81	87	88	87	86	88	89	83	82	89	90	91	80	81	83	80	84.2	1900 EDT	
WESTMINSTER 4 SSE HARTSOCK	71	69	64	65	67	65	67	62	61	63	68	70	70	70	71	72	72	73	73	70	70	69	65	65	67	71	73	64	65	65	66	67.8	1900 EDT	
WESTMINSTER 4 SSE HARTSOCK	91	85	83	88	89	86	82	87	84	82	86	91	89	89	89	86	89	91	91	85	86	91	83	87	91	90	94	84	87	83	84	87.2	2200 EDT	
WESTMINSTER 5 SSE KLEIN	68	70	60	65	67	66	66	62	59	59	64	68	71	70	70	73	71	72	72	70	66	67	69	58	66	71	74	65	62	66	64	66.8	2200 EDT	
WESTMINSTER 5 SSE KLEIN	88	82	82	82	83	81	84	73	81	82	85	91	85	79	83	82	84	87	89	84	89	88	80	83	87	89	92	80	83	83	80	83.9	1800 EDT	
MILLERS 4NE MILLER	68	67	60	62	66	64	65	60	59	63	67	68	69	68	69	70	70	71	71	69	67	67	67	62	64	70	72	63	62	65	65	66.1	1800 EDT	
MILLERS 4NE MILLER	88	86	80	84	82	82	83	75	83	87	87	91	85	84	82	83	86	88	88	86	88	88	85	83	90	91	92	84	82	85	82	85.2	2200 EDT	
MULLER WESTMINSTER CITY	66	68	57	63	67	65	66	62	58	59	64	66	70	70	70	72	71	71	72	71	66	67	69	56	66	69	73	64	61	64	65	66.1	2200 EDT	
MULLER WESTMINSTER CITY	89	86	83	84	85	85	81	78	85	88	89	93	86	86	85	84	89	90	88	90	90	91	83	85	92	93	94	80	80	86	85	86.5	2400 EDT	
FREDERICK 4 N FARFAN	71	66	63	62	69	66	65	63	65	63	65	67	70	71	70	71	72	72	74	71	68	71	60	68	68	72	74	66	65	65	68	67.8	2400 EDT	
FREDERICK 4 N FARFAN	92	87	83	87	86	85	83	81	86	89	90	93	88	86	82	88	90	89	89	90	90	90	85	86	93	95	97	79	84	87	84	87.5	2400 EDT	
EAGLE ROCK HARVEY	72	68	61	65	69	68	65	65	63	63	62	65	71	69	71	74	73	75	74	73	66	69	65	59	69	73	76	68	64	69	66	68.0	0800 EST	
EAGLE ROCK HARVEY	84	82	79	76	82	82	78	72	74	78	80	86	86	82	79	79	80	79	80	79	82	80	80	79	79	80	86	82	72	79	80	79.9	0800 EST	
FALLSTON 2 NW ALBRIGHT	60	60	62	59	60	62	59	59	52	54	54	66	64	64	62	64	66	68	66	66	64	61	60	55	66	62	70	60	58	62	62	61.5	2400 EDT	

ACON MD / DE / DC
JULY 2005 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	
LAUREL JHU / APL	91	86	83	86	86	84	82	78	86	89	90	94	88	85	85	85	91	91	89	89	93	91	84	86	93	95	97	81	76	83	82	87.1	2400	
GIANNOLA	73	71	64	66	69	68	68	63	64	67	67	69	71	72	73	72	73	76	75	74	70	72	68	63	68	75	73	67	70	69	68	69.6	EDT	
POTOMAC 4N	90	86	85	85	83	83	80	76	84	86	88	90	85	87	80	84	86	88	87	88	87	84	84	91	94	95	78	75	82	80	85.1	2100		
COHEN	73	73	68	65	70	69	66	64	62	63	63	68	74	71	72	73	72	73	74	74	68	70	69	60	68	73	74	68	72	68	68	69.2	EDT	
OLNEY 1 S	89	84	81	85	85	84	81	>	>	87	87	90	85	84	81	85	87	89	88	90	90	>	>	>	>	>	[96]	>	>	96	79	86.0	2400	
GIANNOLA	71	70	63	65	70	68	67	>	>	63	65	68	73	71	72	73	72	74	74	73	69	>	>	[62]	>	>	>	>	>	62	68	69.1	EDT	
MONTGOMERY VILLAGE	92	87	83	87	86	83	80	79	88	90	92	94	88	89	80	88	89	92	92	92	93	94	89	89	95	97	99	82	74	84	81	88.1	2400	
ROTH 1SW	70	69	64	66	71	68	68	64	64	66	65	69	74	72	72	71	75	74	74	69	71	68	61	68	74	73	68	69	68	69	69.1	EDT		
GLENMONT 1NNE	91	84	83	88	87	84	80	78	87	88	90	93	87	87	83	86	88	91	90	90	92	90	83	86	91	95	97	78	75	82	81	86.6	2400	
ROSSEN	70	67	62	64	69	69	67	64	63	63	64	67	73	72	73	73	72	74	74	72	68	71	64	60	69	74	72	67	70	70	67	68.5	EST	
BETHESDA	87	82	81	82	83	83	80	78	83	85	88	89	84	84	82	82	86	88	87	87	88	89	85	84	91	92	94	79	75	81	79	84.4	2400	
SCAFIDE	69	70	65	66	70	69	67	65	64	64	66	70	75	71	73	73	72	74	75	74	70	72	69	62	68	75	71	69	70	70	68	69.5	EDT	
GAITHERSBURG 2WNW	92	87	83	88	87	83	81	76	87	89	91	92	89	89	81	87	86	90	88	90	90	90	87	86	93	96	97	80	75	84	80	86.9	2400	
SHAW	70	68	62	65	70	68	66	63	62	63	63	67	73	71	72	71	71	74	74	72	67	70	64	59	68	72	72	66	67	68	68	67.9	EDT	
FOREST GLEN	92	87	84	88	87	87	82	81	88	90	93	95	88	90	87	89	91	92	91	92	93	94	89	89	95	98	98	83	76	84	83	88.9	2400	
TERRY	69	69	63	65	71	68	67	64	63	63	63	68	75	72	73	72	72	74	75	73	68	71	66	59	69	74	71	66	70	69	67	68.7	EDT	
ROCKVILLE 1NE	89	83	80	84	83	82	83	73	77	80	82	86	80	81	79	89	88	90	86	88	90	91	M	M	M	92	95	98	78	75	83	80	84.3	2400
WASH GAS LIGHT	67	67	60	61	68	66	65	59	56	58	67	60	66	64	67	71	71	74	75	75	69	72	M	M	68	76	72	68	70	68	68	67.2	EDT	
OXON HILL	92	M	M	M	90	85	81	82	88	91	91	93	87	89	86	91	92	92	92	92	92	93	89	88	94	98	99	84	79	84	82	89.1	2000	
SMITH	71	M	M	M	65	M	69	65	65	65	66	72	74	71	74	75	74	74	76	76	70	73	69	63	70	78	75	69	71	70	70	70.7	EDT	
HOLLYWOOD	91	86	85	87	86	86	82	82	91	91	90	91	89	88	86	93	92	92	94	92	94	93	90	87	94	97	100	86	85	82	84	89.2	2359	
ABELL	71	71	70	64	70	70	68	67	67	68	74	74	73	75	73	76	76	77	74	71	73	69	62	70	77	74	72	71	73	70	71.3	EDT		
RIDGE	89	83	84	84	86	86	81	79	88	87	90	92	86	86	86	90	91	92	94	89	93	90	88	88	92	95	100	83	83	80	80	87.6	2400	
ZYLA	77	70	69	66	74	70	71	71	68	68	75	76	73	74	71	75	75	77	77	76	72	75	72	69	69	76	73	71	73	74	73	72.6	EDT	
SMITHSBURG 1.5 SW	90	85	83	86	85	86	83	80	85	88	90	92	88	84	84	88	88	88	87	89	88	88	85	83	91	92	93	80	83	85	84	86.5	2400	
HUTTO	68	65	56	63	67	68	63	64	62	58	59	63	68	68	71	73	72	72	71	67	63	67	62	56	69	68	73	65	59	62	64	65.4	EDT	
HAGERSTOWN 1E	91	86	83	88	87	87	84	80	87	89	90	93	89	87	82	90	90	90	89	90	89	88	86	86	92	95	96	81	84	87	85	87.8	2400	
KEEFER	70	68	61	65	70	68	64	65	64	60	62	65	71	70	72	73	73	73	72	69	66	69	67	58	70	70	75	67	62	66	67	67.5	EDT	
SMITHSBURG 2 NE	94	88	85	88	87	89	90	79	88	91	92	98	94	86	89	91	93	93	93	94	91	93	92	86	95	94	96	85	90	89	91	90.5	2400	
VAUGHN	70	69	65	68	71	68	65	66	64	60	63	68	71	71	73	76	73	74	72	70	66	68	67	59	71	69	69	65	61	65	65	67.8	EDT	
SALISBURY	88	81	81	84	86	85	79	82	86	88	89	90	88	86	85	90	91	91	92	90	92	91	88	88	87	95	98	83	81	80	81	87.0	2400	
NWS WICOMICO CO APT	68	65	63	60	64	67	64	63	61	61	60	65	71	70	71	74	73	74	75	73	64	68	62	58	65	70	72	69	67	66	66	66.7	EST	
WASH NATIONAL	93	87	86	89	91	86	83	81	87	89	91	91	87	86	86	90	89	90	91	90	95	92	87	85	93	97	97	84	78	84	83	88.3	2400	
NWS ASOS	74	74	70	72	72	71	71	66	67	69	70	75	74	75	75	75	74	77	77	77	74	74	71	66	72	78	74	71	73	73	71	72.6	EST	
WASH DULLES	90	86	84	85	87	85	80	82	86	87	89	91	87	84	85	90	89	89	89	90	90	92	88	86	94	94	96	78	76	84	82	86.9	2400	
NWS ASOS	70	71	65	65	70	68	66	65	63	64	63	69	72	68	72	73	74	74	74	73	67	70	64	61	68	76	71	70	71	69	67	68.8	EST	
STERLING 4 N	89	84	82	84	84	83	79	77	82	85	88	90	86	84	85	90	89	90	86	88	87	91	86	84	92	93	96	77	75	83	81	85.5	2400	
SHAFFER	72	72	64	67	70	70	68	66	65	65	66	71	75	72	74	74	74	74	76	74	71	72	69	64	68	73	76	69	71	72	69	70.4	EDT	
DAVIS 3 SE WV	80	79	76	75	79	79	73	70	70	72	75	81	77	78	70	75	76	74	76	73	78	78	76	76	75	79	83	79	69	71	74	75.7	0700	
LESHER	58	60	57	59	63	60	56	56	53	53	53	62	61	61	62	64	65	65	66	63	61	62	59	54	55	59	66	58	58	59	57	59.5	EDT	

**ACON MD / DE / DC
JULY 2005 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	
WILMINGTON 4NNE CANAVAN																																	2400 EDT	
BEAR 2 SW, DE GALLAHER					0.25	0.25	0.18	1.53								0.54	0.19		0.02		0.02					0.33	0.55					3.86	2400 EDT	
WILMINGTON, DE NWS NEW CASTLE CO APT					0.72	0.20	0.24	1.52				0.53	T			0.94	0.05		T							0.29	0.34					4.83	2400 EST	
Townsend 4W, DE UoFD TOWNSEND FARM					1.03	0.27	0.19	1.91							0.01	1.29	0.23		0.01	0.01	0.82	0.01				0.26	0.40		0.11			6.55	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT		0.02			0.06	0.48	0.03	2.01						0.19	1.70	0.63	0.23									0.15	T	T		0.18	0.58	6.26	2400 EST	
GEORGETOWN, DE UoFD RESEARCH & ED CTR					0.01	0.38	0.01	1.99						0.28	0.10	0.87										0.36	0.08	0.68		0.17	0.03	4.96	2400 EST	
HARBESON 8 S, DE UoFD WARRINGTON FARM	0.01	0.03				0.43		2.64						0.06	1.75	0.38	0.13									0.22		0.16		0.11	0.32	6.24	2400 EST	
FROSTBURG LATTA	0.19					0.33		1.57	0.37					0.36	0.38	0.04	0.40	0.10								0.05	T		0.04			3.83	0700 EST	
LAVALE MULLINS**					0.12	0.02	0.61	1.31	0.01				2.20	0.95	0.26	0.21	0.16	T								0.07		0.01				5.93	2400 EDT	
ST MARGARETS BRYANT																																		2400 EDT
MILLERSVILLE 1SE HANSON					0.04	0.08	0.20	1.58	0.14				0.01	0.68	0.57	0.01					0.17	0.01				0.52	1.08	0.01	0.41			5.51	2400 EDT	
LOTHIAN JUG BAY	M	0.12	T			0.62	T	1.57	0.01	T				0.01		0.09	T	0.01			T		0.01	T	0.25			0.21	0.03	0.04	2.97	0900 EDT		
BWI NWS ASOS	T				0.38		0.42	1.89					T	0.11	1.04	2.79		T	T		0.36		T	T	0.39	0.53		0.86			8.77	2400 EST		
LAUREL 2 E STOUDT	>	>	>	>	>	>	>	2.74					1.11	0.95	0.05	1.79		T				0.01	0.01		0.17	0.78		1.36			8.97	2400 EST		
PARKTON 5SW KREINIK					0.27	0.98	0.73	3.73						T	0.16		0.21		T		0.10					0.45	T	0.29	T			6.92	2200 EDT	
OWINGS MILLS 2SE SHARROW					0.29	0.02	0.27	2.13					T	0.16	0.08	1.07	T		T		T						0.15						4.17	2400 EDT
BALTIMORE 2SE MANFRE	0.01				0.89	0.12	0.31	1.73					T	0.10	0.51	2.43		T							0.46	0.32		0.34			7.22	1800 EDT		
BALT INNER HARBOR MD SCIENCE CENTER					0.61		0.39	1.66						0.21	0.26	2.31					0.01				0.45	0.34		0.29			6.53	2400 EST		
MANCHESTER 1SW CLOSE	0.02				0.57	2.03	0.37	3.35						0.07	0.15	0.35	0.90		0.03		0.09		0.28		0.65	0.09					8.95	2300 EDT		
WESTMINSTER 4 SSE HARTSOCK					0.30	0.67	0.07	3.47						0.02	0.42	1.26	0.12		0.06		0.05				0.65	0.09						7.18	1900 EDT	
WESTMINSTER 5 SSE KLEIN					0.34	0.68	0.21	3.53						0.16	0.22	1.27	0.12		0.05		0.02				0.66	0.08						7.34	2200 EDT	
MILLERS 4NE MILLER	T				1.24	2.47	0.06	3.78					T	T	1.36	0.13	2.77	T		T	0.18		0.03		0.62	0.04	0.01				12.69	1800 EDT		
MULLER WESTMINSTER CITY					0.13	0.24	0.50	2.98	0.52					0.59	0.19	1.54			0.16		0.22				1.00			0.04			8.11	2200 EDT		
FREDERICK 4 N FARFAN					1.39	0.02	0.82	2.40					0.01	2.81	1.60	0.24	0.04		0.07		0.12			T	0.28						9.80	2400 EDT		
EAGLE ROCK HARVEY	T				T	0.87		1.80	0.37				0.01	0.05		0.01	0.92	0.32	0.71	0.10		0.12				0.05		0.16			5.49	0800 EST		
FALLSTON 2 NW ALBRIGHT																																		2400 EDT

**ACON MD / DE / DC
JULY 2005 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
LAUREL JHU / APL GIANNOLA					0.31		0.37	2.02					0.37	0.72	0.69	0.92		0.05					0.22		0.17		0.40		0.64			6.88	2400
POTOMAC 4N COHEN	0.10				0.06	0.26	0.36	2.35						0.84	1.80	0.24	0.15	0.04			0.54		0.15		0.17		0.07		0.82			7.95	2100
OLNEY 1 S GIANNOLA	0.03				0.27		>	2.55						0.35	0.12	0.90	0.04	0.04	T		0.02	>	>	>	>	>	>	>	>	2.21		6.53	2400
MONTGOMERY VILLAGE ROTH 1SW	0.28				0.51		0.43	2.36						0.05	1.10	1.48					0.12				0.16		0.51		0.31			7.31	2400
GLENMONT 1NNE ROSSEN	0.10				0.03		0.46	2.59						0.53	0.16	1.01	T	T			0.25		1.30	T	0.18		0.85		1.14			8.60	2400
BETHESDA SCAFIDE	0.80				0.18	0.02	0.52	1.77						0.90	0.37	0.27	0.01				0.03			0.01	0.11		0.17		0.27	0.01		5.44	2400
GAITHERSBURG 2WNW SHAW	0.71				0.58		0.34	2.26						T	0.50	1.51					0.09			T	0.21		0.40	T	0.24			6.84	2400
FOREST GLEN TERRY	0.91				0.15	0.04	0.41	2.83						0.27	1.51	0.38					0.03	0.20	0.84		0.10		1.14		0.31			9.12	2400
ROCKVILLE 1NE WASH GAS LIGHT	0.43				0.11		0.53	1.68						0.37	1.27	0.35	0.02	0.23			0.08		M	M	0.18		0.03		1.05			6.33	2400
OXON HILL SMITH	0.06				0.42		0.18	1.51					0.80	0.01	1.75	T	T						0.46		0.07		0.14		0.02			5.42	2000
HOLLYWOOD ABELL					0.78	0.46	0.49	1.05							T		0.03		T						0.06		0.10	0.01	0.08			3.06	2359
RIDGE ZYLA		0.01			0.17		0.44	2.10								0.08	0.42				T				0.32		0.48		0.31	0.48		4.81	2400
SMITHSBURG 1.5 SW HUTTO					0.17	0.07	0.83	1.38					0.27	0.34	1.52	0.42	0.04		0.44	0.01	0.08			0.01	0.17		0.11					5.86	2400
HAGERSTOWN 1E KEEFER					0.20	0.76	0.69	1.55						T	0.45	0.53	0.02		0.22		0.11			0.01	0.08		0.24					4.86	2400
SMITHSBURG 2 NE VAUGHN					0.29	0.07	0.18	1.94					T	0.08			1.98		0.37		0.58	0.01		T	0.19		0.04					5.73	2400
SALISBURY NWS WICOMICO CO APT					0.01	T	T	5.63			0.01			0.25	0.01	0.10				T					T			0.07	0.75	0.25		7.08	2400
WASH NATIONAL NWS ASOS	0.18				0.68		0.33	2.14					0.30	0.09	1.18	0.09	T		T				0.87	T	0.08		0.11		0.01			6.06	2400
WASH DULLES NWS ASOS	0.01				1.43		1.59	1.96					0.66	0.07	1.01	0.25	0.01	T	0.04		T			0.01	0.18		0.58		0.09			7.89	2400
STERLING 4 N VA SHAFFER	0.02				0.70	0.11	>	>	3.04				0.06	T	0.63	0.82	0.03	0.19	T		0.06		0.01	0.02	0.35	0.01	0.83	T	0.13	T		7.01	2400
DAVIS 3 SE WV LESHER	0.02	0.03		0.33	0.10	0.44		1.96	0.34				1.26	0.22	T	0.02	0.62	0.08	0.07	0.11		0.16	0.07		T	0.21	0.18	0.32	0.08	T		6.62	0700
																																0.0	EDT