



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

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

WARM MONTH WITH A HOT ENDING DRY EAST, WET WEST

May's temperatures averaged above normal. No freezing minimums were reported in Maryland or Delaware. The coolest temperatures occurred on the 1st and again on the 5th and 6th when minimums ranged from the mid 30's at cooler locations to mid 40's at warmer locations. The first 90° temperatures occurred on the 26th as many stations touched the 90 degree mark. The last weekend of the month, Memorial Day weekend, brought the hottest temperatures. Mid to upper 90's were common across region, but were a few degrees cooler along the Atlantic Coast and in the Western Maryland mountains.

There were numerous days when precipitation fell, but the amounts were generally light. Many of these events were thundershowers / thunderstorms events. Of the 525 observation days when measurable precipitation fell only eleven were for amounts of one inch or more. **Nate Mullins of LaVale** hit the jackpot with three such days: two days with over two inches along with another day with over one inch.

There were three periods of rain this month: 1st to the 6th, 13th to the 20th, and the 22nd to the 28th. The 4th was the wettest day, followed by the 18th and then very closely by the 15th. Region wide 60% of the months precipitation fell between the 13th and 20th. Yards and gardens began to show moisture stress at month's end.

Two tornadoes occurred on the evening of the 17th: an EF-0 near Wolfsville, Fredrick County, Maryland and an EF-1 near Maugansville, Washington County, Maryland. **Greg Keefer of Hagerstown 1E** provided details on the Maugansville tornado. Both storms caused tree and property damage.

The month began cloudy with periods of light rain. The first 80° temperatures of the month occurred on the 3rd. The 4th was wet and cool with temperatures that peaked out in the 50's and 60's. Minimum temperatures on the 5th and 6th were around 40°.

The weather was "quiet" from the 6th to the 13th. Maximum temperatures were in the 70's and minimums were in the 40's and 50's.

The rainy period this month occurred from the 13th to the 20th. Showers and thunderstorms were common and some were severe. **Nate Mullins of LaVale** and **Greg Keefer of Hagerstown 1E** reported hail on the 18th.

Summer type conditions began on the 23rd and lasted for the balance of the month. Maximum temperatures failed to fall below 80° between the mountains and the Atlantic Coast.

Severe thunderstorms occurred on the 27th in Washington and Allegany Counties. **Nate Mullins of LaVale** reported large hail and 1.54" of rain.

The month ended on a very hot

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Pasadena 2 N	99
Baltimore 2 SE	99
Lothian	98
Westminster 4 SSE	98
Forest Glen	98

MINIMUM TEMPERATURE

Davis 3 SE WV	29
Frostburg	35
Smithsburg 1.5 SW	36

WARMEST AVG. TEMP.

Baltimore 2 SE	71.9
Ridge	69.2
Forest Glen	68.6
Hollywood 3 ENE	68.6

COLDEST AVG. TEMP.

Davis 3 SE WV	56.7
Frostburg	60.2
LaVale	63.6

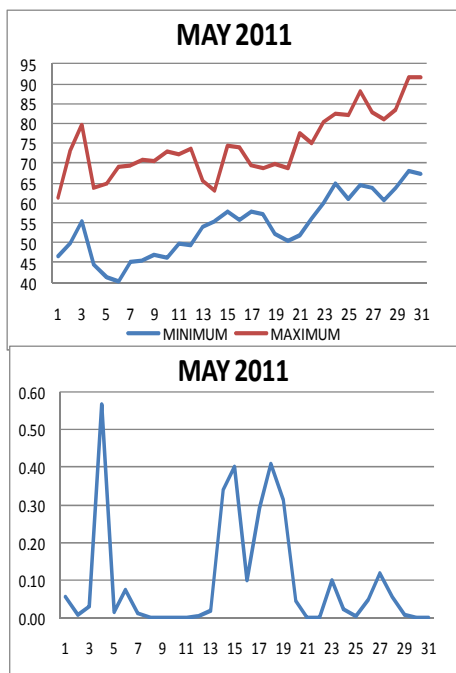
MAXIMUM PRECIPITATION

Frostburg	8.32
LaVale	8.00
Davis 3 SE WV	6.68
Millers 4 NE	4.65

MINIMUM PRECIPITATION

Rehoboth Beach Bwk	1.86
Olney 1 S	1.91
Glenmont 1 NNE	1.94

note with maximum temperatures in the mid to upper 90's and minimums in the upper 60's to lower 70's.



ACON MD/DE Network

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

WEATHER PARTY
SATURDAY, JULY 30, 2011
HOME OF HERB CLOSE
MANCHESTER 1 SW

OBSERVER COMMENTS FOR MAY 2011

Gary Gallaher of Bear 2 SW, DE

Many warm nights. Ten of the last eleven days saw temperatures of 80° or higher.

19th - Pea size hail reported in the area during a heavy afternoon thunderstorm.

Nate Mullins of LaVale

Wettest Spring season with 20.06". Previous Spring season record was 18.69" from 1993. 3rd wettest May and 10th wettest month overall since records began in 1948.

17th - Heavy PM thunderstorms 2.03"

18th - Severe thunderstorms, torrential downpours, large hail accumulated on the ground, flash flooding. Funnel cloud over Cumberland.

27th - Severe thunderstorms, large hail, heavy downpours, flash flooding, radar showed a possible tornado.

Jeff Stoudt of Laurel 2 E

May turned out decisively warmer than normal courtesy of summery temperatures. The growing rainfall deficiency along with hot temperatures raised the need for supplemental watering of lawns and gardens as those not watered were showing signs of drought stress by month's end.

Marty Sharrow of Owings Mills

Temps +4.7° and precipitation -1.25".

17th - Heavy AM shower.

26th - Sun & clouds, hazy, hot, and humid.

Joe Manfre of Baltimore 2 SE

1st - Cloudy, cool, light showers.

4th - Cloudy, cool, AM rain.

15th - Cloudy, warm, evening thunderstorms.

27th - Variable clouds, warm, humid, late PM thunderstorm.

Ralph Hartsock of Westminster 4 SSE

4th - Cold early, sunny.

21st - Sunny and warm.

31st - Sunny, very hot and humid.

Bobby Miller of Millers 4 NE

19th - AM thunderstorm 1.5" rain/hr., 1.85" total.

28th - Tropical CU moving NNE, few drops after observation.

Ray Muller of Reisterstown

Dry month. Three days with dense fog.

Eric Glass of Emmitsburg 2 SE

6th - At obs time: Clear sky, sunny, calm, and cold.

31st - At obs time: Light haze, sunny, calm, and warmer.

Rob Cohen of Potomac 4 N

4th - Afternoon temperatures in the mid 50's.

26th - Tied record maximum temperature

27th - Moderate thunderstorm 7:30 - 8 PM.

Rich Giannola of Olney 1 S

Maximum barometric pressure 30.30" on the 1st

Minimum barometric pressure 29.52" on the 15th.

Richard Holden of Clarksburg 2 ENE

Thunder reported on eight days. Periods of heavy rain reported on 11 days. Peak wind gusts of 30 MPH or greater reported on 5 days.

Stan Rossen of Glenmont 1 NNE

Spring precipitation: 11.34", Spring snowfall: T

27th - Morning minimum temperature 69°.

Kevin Shaw of Gaithersburg 2 WNW

May was a warm, dry month, but with frequent days of light precipitation (14 measureable vs. average 12.4 days) Minimum temperatures +6.7° made this my third warmest May. Warmest is 2004.

23rd - First 70° dew point of the season.

30th - Sunny, hot, humid, obnoxiously uncomfortable!!!

Joe Terry of Forest Glen

27th - Early evening moderate but brief thunderstorm. 10 degree temperature drop in 5 minutes.

31st - Unusually hot and humid with a 108 degree maximum heat index. Maximum of 98° broke the May monthly record of 97° which was tied yesterday.

Brian Smith of Oxon Hill

27th - AM minimum temperature 68°. -TSRA 0730-0815: strong TS rolled in from SW then fizzled rapidly.

John Zyla of Ridge

•High Temp of 96 degrees for the month on the 31st.

(Station High for May, highest in 17 years)

•4 days of 90 degree or above temps (Ties station record for most 90 deg days in May, 2004)

Max Hutto of Smithsburg 1.5 SW

5th - Sunny, not as cool, very windy.

18th - Showers, PM thunderstorms, Occasional sun, breezy.

Greg Keefer of Hagerstown 1 E

18th - Intense thunderstorm this afternoon between 5 - 5:30 PM with brief heavy rain, gusty winds to 42 MPH, and pea size hail enough to cover the bare spots on the ground and make it white.

27th - Intense thunderstorm this evening 8 - 8:30 PM with very strong winds gusting to 54 MPH and brief heavy rains. Lots of tree damage across the area from the winds. Some trees uprooted and many power outages.

Jim Vaughn of Smithsburg 2 NE

30th - Minimum temperature of 72° tied the record May maximum minimum temperature last set on 5/20/1996.

31st - Heat index of 105°. Maximum of 97 ties the highest May maximum temperature of 97° set on 5/20/1996.

Lance Shaffer of Sterling 4 N VA

8th & 9th - Nice weather days.

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.

John Zyla of **Ridge** toured the **Hurricane Hunter Aircraft** on May 3rd. The Aircraft made a stop at Patuxent River Naval Air Station on its 2011 Public Awareness Tour along the East Coast. Below is John's report.



Just some thoughts on the Hurricane Hunter Visit at Patuxent River Naval Air Station:

As I drove in to the area where the aircraft was I was surprised at the amount of cars and buses in the parking lot. When I got into the hangar, there was over a 100 people in line to start their tour. It seemed that lots of school groups took advantage of the visit to have a field trip. Inside the hangar around the plane were many booths and displays for not only weather but emergency preparedness, etc. I found out there are actually two Hurricane Hunter aircraft nicknamed "Miss Piggy" and "Kermit". We were about to tour Kermit.

Finally my turn came for a tour and I was struck by the fact this is where it all happens as I entered the aircraft. There were 3 or 4 stations set up inside the aircraft with crew members explaining what is done at each station and where everyone sits on board. Talking to the crew members was very educational because most have been doing this for many years and had many stories of extreme weather to relate until the next tour group came through.

As I exited the aircraft I noticed many red hurricane stickers on the fuselage. They were individual hurricane stickers, one for each storm the plane had flown into during its career. It was amazing that this aircraft had been "inside" so many systems over the years!

If you get the chance to tour a Hurricane Hunter I think you will find it worth your while, I know I did.

MD/DE/DC ACON REPORT

MAY 2011



Maugansville, Washington County, Maryland Tornado

May 18th. One mile northwest of Hagerstown, MD

Information furnished by **Greg Keefer** of **Hagerstown 1 E**.

Top left picture from the Channel 9 Web Site.

The other pictures are from the Herald Mail newspaper.

The National Weather Service confirmed that a 200-yard-wide EF-1 tornado passed through the area from 8:10 to 8:15 PM. The estimated maximum wind speed was 90 to 100 mph. Trees were uprooted and branches were strewn across yards in the area. Shingles littered some parts of the streets. It did some minor structural damage & turned over a RV Home.

ACON MD /DE / DC
MAY 2011 SUMMARY

OBSERVER	STATION	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
<u>New Castle, Delaware</u>																								
Gallaher, Gary	Bear 2 SW	76.3	55.5	65.9	94	31	38	6	3	0	0	38	WSW	19	3.63	1.28	19	18.35	10	1	0.0	0.0	27.0	2400
Legates, David	Middletown 6 N	76.4	56.1	66.3	94	30+	40	6	3	0	0	25		5	1.99	0.54	4	15.35	12	0				2400
NWS Wilmington	New Castle Co. Apt.	76.0	56.5	66.3	96	31	42	6	2	0	0	38	N	7	3.23	0.97	15	18.11	9	0	0.0	0.0	27.0	2400
UofD AG FARM DEOS***	Newark	75.5	56.4	66.0	94	31	40	6	2	0	0	26		7	3.25	0.85	15	<u>13.42</u>	9	0				2400
U of D REC DEOS***	Townsend 4 W	75.0	55.7	65.4	93	31	41	6	2	0	0	25		7	2.07	0.56	4	15.47	10	0				2400
<u>Sussex, Delaware</u>																								
NWS Georgetown	Sussex Co. Airport	77.1	55.6	66.4	95	30	41	1	3	0	0	32	WNW	5	1.78	0.78	4	13.23	9	0				2400
U of D REC DEOS***	Georgetown 5 SW	76.5	55.9	66.2	94	30	42	1	3	0	0	25		5	1.98	0.75	4	13.35	9	0				2400
U of D REC DEOS***	Harbeson 8 S	76.2	55.5	65.9	95	30	40	1	4	0	0	22		3	1.96	0.86	4	12.78	10	0				2400
U of D DEOS***	Rehoboth Beach Bwk	69.9	58.1	64.0	90	30	45	5	1	0	0	22		2	1.89	0.66	4	12.71	8	0				2400
<u>Allegany, Maryland</u>																								
Latta, Greg	Frostburg	70.1	50.2	60.2	86	30	35	6	0	0	0				8.32	2.16	18	28.18	16	2	0.0	0.0	50.1	0700
Mullins, Nate**	LaVale	73.3	53.9	63.6	92	30	38	6	2	0	0				8.00	2.29	18	24.46	13	3	0.0	0.0	26.2	2400
<u>Anne Arundel, Maryland</u>																								
Hanson, Dan	Pasadena 2 N	78.3	57.0	67.7	99	30	40	6	3	0	0	26	W	5	3.68	1.05	15	16.88	13	1	0.0	0.0	12.3	2400
Jug Bay Wetlands	Lothian	79.1	56.0	67.6	98	30	40	5	3	0	0				3.33	1.57	14	19.90	12	1	0.0	0.0	6.8	2400
NWS Baltimore	BWI Airport	77.4	57.0	67.2	98	30	40	6	3	0	0	26	W	5	2.42	0.62	4	16.28	12	0	0.0	0.0	14.4	2400
Stoudt, Jeff	Laurel 2 E	76.2	58.8	67.5	94	30+	44	6	3	0	0				2.40	0.56	4	15.36	11	0	0.0	0.0	13.7	2400
<u>Baltimore, Maryland</u>																								
Muller, Ray	Reisterstown														2.65	0.60	19	19.34	12	0	0.0	0.0	<u>5.3</u>	2100
Sharrow, Marty	Owings Mills 2 SE	75.6	55.8	65.7	96	30+	40	5	3	0	0				2.63	0.55	17	19.99	11	0	0.0	0.0	28.1	2400
<u>Baltimore City, Maryland</u>																								
Manfre, Joe	Baltimore 2 SE	80.2	63.5	71.9	99	30	48	5	4	0	0				2.16	0.68	4	15.80	10	0	0.0	0.0	13.9	2400
Maryland Science Ctr	Baltimore Inner Harbor	80.1	63.5	71.8	99	30	48	5	3	0	0				2.06	0.60	4	16.11	11	0				2400
<u>Carroll, Maryland</u>																								
Close Jr, Herb	Manchester 1 SW	74.3	54.2	64.3	92	31	38	5	2	0	0				2.42	0.50	19	20.35	14	0	0.0	0.0	35.7	2300
Hartsock, Ralph	Westminster 4 SSE	80.2	56.9	68.6	98	30+	41	6	4	0	0				2.87	0.82	18	20.63	13	0	0.0	0.0	28.6	1800
Miller, Bobby	Millers 4 NE	75.6	54.2	64.9	92	31	39	6	1	0	0	35	WNW+	5+	4.65	2.14	19	24.51	15	1	0.0	0.0	35.5	1800
<u>Charles, Maryland</u>																								
Brumback, Marty	Bryans Road 2 ESE																	<u>4.97</u>					<u>10.7</u>	2400
<u>Frederick, Maryland</u>																								
Glass, Eric	Emmitsburg 2 SE	73.1	54.2	63.7	91	31	39	6	1	0	0				3.73	0.75	15	22.47	16	0	0.0	0.0	24.0	0700

ACON MD /DE / DC
MAY 2011 SUMMARY

OBSERVER	STATION	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	
<u>Howard, Maryland</u>																									
Giannola, Rich	Laurel JHU / APL	75.9	57.4	66.7	94	31	41	6	2	0	0	39	WSW	27	2.86	0.54	17	16.58	13	0	0.0	0.0	18.7	2400	
<u>Montgomery, Maryland</u>																									
Berger, Ron	Norbeck 1 SE	75.9	57.5	66.7	94	31	40	6	3	0	0				2.14	0.52	4	16.40	15	0	0.0	0.0	15.0	2200	
Cohen, Rob	Potomac 4 N	76.7	57.6	67.2	94	31	42	6	3	0	0				2.85	0.58	4	18.74	12	0	0.0	0.0	13.8	2100	
Giannola, Rich	Olney 1 S	75.4	57.5	66.5	93	31	43	5+	3	0	0				1.91	0.57	14-15	16.04	14	0	0.0	0.0	17.2	2400	
Holden, Richard	Clarksburg 2 ENE	74.8	56.7	65.8	92	31	43	5	2	0	0	37	SW	27	4.38	0.89	15	21.63	15	0	0.0	0.0	27.4	2400	
Roth, David	Montgomery Village 1SW																<u>12.02</u>		0	0			<u>1.9</u>	2400	
Rossen, Stan	Glenmont 1 NNE	77.6	57.2	67.4	94	30	41	6	3	0	0	15		3	1.94	0.55	14	15.93	13	0	0.0	0.0	13.5	2400	
Scafide, Tony	Bethesda																<u>12.42</u>		0	0				2400	
Shaw, Kevin	Gaithersburg 2 WNW	76.6	57.5	67.1	95	31	41	6	3	0	0	18	NW	4+	3.18	0.68	15	18.84	14	0	0.0	0.0	18.0	2400	
Terry, Joe	Forest Glen	79.6	57.5	68.6	98	31	41	6	3	0	0	29	W	5	2.21	0.51	4	17.31	13	0	0.0	0.0	15.5	2400	
<u>Prince Georges, Maryland</u>																									
Smith, Brian	Oxon Hill	78.4	58.2	68.3	96	30+	43	6	3	0	0				1.98	0.76	4	17.77	12	0	0.0	0.0	14.3	2300	
<u>St. Marys, Maryland</u>																									
Gleason, Wes	Hollywood 3 ENE	76.6	60.6	68.6	92	30	47	5	2	0	0				2.89	1.03	16	14.62	13	1	0.0	0.0	5.9	0700/2400	
Zyla, John	Ridge	77.9	60.4	69.2	96	31	45	5	4	0	0	22	NW	4	2.68	0.89	4	13.94	11	0	0.0	0.0	13.9	2400	
<u>Washington, Maryland</u>																									
Hutto, Max	Smithsburg 1.5 SW	76.4	54.3	65.4	94	31	36	6	3	0	0	32		5	4.49	0.80	18	23.96	15	0	0.0	0.0	26.5	2400	
Keefer, Greg	Hagerstown 1 E	75.7	55.7	65.7	94	31	38	6	3	0	0	54	S	27	4.52	0.74	15	21.79	15	0	0.0	0.0	23.4	2400	
Vaughn, Jim	Smithsburg 3 NE	74.3	55.7	65.0	97	31	41	5	3	0	0	58	SW	27	3.82	0.79	26	23.48	15	0	0.0	0.0	28.7	2400	
<u>Wicomico, Maryland</u>																									
NWS Salisbury	Wicomico Co. Apt	78.5	56.2	67.4	95	30+	39	1	4	0	0	23	SSW+	3+	1.68	0.70	4	11.63	9	0	0.0	0.0		2400	
<u>Arlington, Virginia</u>																									
NWS Washington	National Airport	77.4	59.3	68.4	98	31	46	4+	3	0	0	45	W	27	1.70	0.56	4	13.67	11	0	0.0	0.0	10.1	2400	
<u>Loudon, Virginia</u>																									
NWS Washington	Dulles Airport	76.5	56.1	66.3	94	31	40	6	3	0	0	35	SW	27	3.28	0.77	18	17.64	15	0	0.0	0.0	12.6	2400	
Shaffer, Lance	Sterling 4 N	74.5	58.5	66.5	90	30+	43	6	2	0	0				2.86	0.67	15	17.75	16	0	0.0	0.0	13.3	2400	
<u>Tucker, West Virginia</u>																									
Leshner, Dave	Davis 3 SE WV	66.3	47.0	56.7	82	30+	29	5	0	0	3				6.68	1.64	18	34.70	19	1	0.3	0.3	214.6	0700	
SECTION AVERAGE*		76.3	56.9	66.6											3.04		18.23			0.0		19.3			

NOTES:

*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.

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

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

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

M OR UNDERLINE= MISSING DATA

> = INCLUDED IN NEXT DAYS DATA

ITALIC = ESTIMATED DATA

+ = FIRST OF SEVERAL OCCURANCES

WINTER TYPE PRECIPITATION FROM STATIONS WITH

TIPPING BUCKET RAIN GAUGE MAY SHOW UNDER CATCH.

ALSO AMOUNTS CAUGHT MAY BE NOTED IN THE FOLLOWING

DAYS AS IT MELTS.

National Weather Service station data listed herein is preliminary and may be subject to change. The data has not been certified and cannot be used in legal actions.
Only reports certified by the National Climatic Data Center in Asheville, NC may be used for these purposes.
Accuracy of Data from ACON Observers not guaranteed.

GARY GALLAHER 1/27/12 REV 1

ACON MD / DE / DC
MAY 2011 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	66	71	82	67	67	71	72	73	72	76	73	74	69	62	78	76	70	72	72	69	80	71	80	85	84	90	86	84	86	93	94	76.3	2400	
GALLAHER	43	52	55	48	43	38	47	44	47	45	46	47	53	58	61	60	60	62	57	53	52	59	62	69	63	64	65	64	64	69	69	55.5	EDT	
MIDDLETOWN 6 N	66	69	83	68	67	71	72	74	72	76	73	75	69	62	79	76	69	71	72	69	80	71	80	86	84	91	87	84	87	94	94	76.4	2400	
LEGATES	44	53	57	48	45	40	48	45	50	48	48	48	52	58	61	61	60	62	56	52	53	60	61	69	64	64	66	65	65	70	70	56.1	EDT	
WILMINGTON , DE	68	70	82	66	67	70	71	73	73	76	75	74	68	62	74	75	70	70	72	67	81	69	80	86	84	89	85	82	86	95	96	76.0	2400	
NWS NEW CASTLE CO APT	44	55	57	47	43	42	46	46	49	48	49	51	52	59	62	59	59	61	56	54	54	60	60	67	63	66	66	67	68	70	70	56.5	EST	
NEWARK AG FARM, DE	67	71	81	66	66	70	71	72	71	75	73	74	68	62	76	75	69	71	72	68	79	69	80	85	84	89	85	84	85	93	94	75.5	2400	
U OF DE DEOS	45	52	56	47	44	40	48	46	51	49	47	49	52	58	61	60	59	61	56	52	60	60	60	68	64	66	66	64	66	70	70	56.4	EDT	
TOWNSEND 4 W, DE	63	73	81	68	65	70	69	72	70	74	71	73	68	61	77	74	68	70	71	68	78	68	82	83	83	89	85	83	85	91	93	75.0	2400	
U of D REC DEOS	43	53	57	47	44	41	46	45	47	48	45	47	52	57	60	59	62	60	54	52	52	57	61	69	65	64	64	66	67	69	70	55.7	EDT	
GEORGETOWN, DE	65	78	83	69	66	71	72	72	73	75	68	75	71	66	80	77	71	71	75	72	78	71	84	88	82	92	87	85	87	95	91	77.1	2400	
NWS SUSSEX CO APT	41	52	59	48	44	45	50	45	45	47	45	46	49	55	63	60	61	57	53	53	56	57	62	70	64	64	69	64	65	68	68	55.6	EST	
GEORGETOWN, DE	65	77	82	68	65	70	71	72	72	73	67	74	70	65	79	78	73	71	75	70	78	73	83	87	84	90	85	84	86	94	91	76.5	2400	
U of D REC DEOS	42	52	60	48	44	45	50	45	44	46	45	44	49	55	63	61	61	57	56	55	56	57	63	70	67	65	69	64	67	69	69	55.9	EDT	
HARBESON 8 S, DE	66	78	84	67	65	71	71	70	70	72	64	71	67	64	79	77	70	70	76	72	78	68	84	90	81	95	87	86	90	95	88	76.2	2400	
U of D REC DEOS	40	52	58	47	43	43	48	43	44	43	44	43	47	56	63	59	61	60	55	55	57	56	63	71	65	65	70	65	67	69	68	55.5	EDT	
REHOBOTH BEACH BWK	62	65	70	67	66	70	68	64	71	63	59	63	60	61	67	67	63	63	75	69	69	65	78	90	76	81	80	74	79	89	78	69.9	2400	
U of D DEOS	48	55	56	49	45	52	54	51	54	52	54	50	55	57	58	58	59	59	58	58	60	61	62	68	67	66	67	66	65	70	70	58.1	EDT	
FROSTBURG	66	55	76	78	50	60	66	65	63	69	70	75	75	67	66	68	63	58	65	64	66	76	74	78	72	80	84	73	79	86	85	70.1	0700	
LATTA	39	46	50	38	36	35	39	44	41	42	44	49	56	58	56	51	53	53	48	48	48	54	58	58	58	59	57	55	56	61	65	50.2	EDT	
LAVALE	56	70	82	53	62	68	70	68	72	72	76	78	70	68	70	70	63	64	66	69	78	78	76	76	83	85	77	80	88	92	91	73.3	2400	
MULLINS**	46	52	53	44	43	38	45	46	44	43	52	54	62	61	61	54	56	55	51	50	51	55	65	61	61	63	50	61	63	65	67	53.9	EDT	
PASADENA 2 N	62	74	84	68	70	73	74	76	75	78	74	75	70	66	78	80	75	72	74	73	83	77	83	87	86	90	86	83	84	99	97	78.3	2400	
HANSON	45	52	56	45	43	40	47	46	51	52	53	48	57	59	62	58	63	62	57	52	56	59	64	69	64	70	66	63	69	69	71	57.0	EDT	
LOTHIAN	63	81	84	68	70	74	75	76	77	78	74	77	67	68	78	78	75	73	75	76	84	83	85	87	87	92	87	85	84	98	96	79.1	2400	
JUG BAY	43	52	62	45	40	41	45	48	46	43	51	48	58	59	61	56	62	62	58	52	52	57	65	68	63	67	65	62	67	69	68	56.0	EDT	
BALTIMORE	62	74	82	62	68	72	72	75	74	77	74	79	68	65	77	77	73	71	73	72	82	76	84	86	85	91	85	84	85	98	97	77.4	2400	
NWS BWI APT	47	54	57	46	43	40	47	47	49	46	55	51	58	59	62	58	63	63	55	51	53	59	64	71	63	66	66	64	68	70	72	57.0	EST	
LAUREL 2 E	62	76	82	64	68	72	71	72	73	77	76	76	66	65	76	72	69	69	69	70	79	77	82	83	84	90	84	83	86	94	94	76.2	2400	
STOUDT	50	54	59	46	45	44	49	49	51	50	57	54	60	60	62	60	62	62	57	55	56	60	65	71	68	67	67	65	70	72	75	58.8	EST	
REISTERSTOWN																																	1900	
MULLER																																	EDT	
OWINGS MILLS 2SE	61	72	79	60	67	73	72	73	72	75	75	77	64	62	77	75	67	68	69	70	81	75	82	82	85	90	84	82	84	96	96	75.6	2400	
SHARROW	45	51	58	45	40	50	45	46	50	46	51	50	55	57	57	57	60	60	57	51	52	58	61	66	62	69	66	60	62	71	72	55.8	EDT	
BALTIMORE 2SE	66	76	86	67	72	75	76	77	74	79	75	78	70	68	80	79	75	74	77	75	84	78	88	89	88	97	88	89	90	99	98	80.2	2400	
MANFRE	54	59	64	50	48	51	55	57	60	58	58	58	61	62	64	65	66	66	60	58	62	67	67	75	72	75	72	70	75	76	82	63.5	EDT	
BALT INNER HARBOR	65	75	86	67	71	75	76	77	75	79	75	77	71	67	80	80	76	74	77	75	84	78	88	89	87	96	89	88	89	99	97	80.1	2400	
MD SCIENCE CENTER	57	59	64	50	48	51	55	57	60	58	58	58	61	62	64	65	66	66	60	58	63	67	67	75	72	75	72	70	73	76	81	63.5	EST	
MANCHESTER 1SW	61	72	79	63	65	70	71	72	68	72	72	76	62	60	75	75	68	65	70	68	78	75	81	83	83	88	82	81	85	91	92	74.3	2300	
CLOSE	49	48	56	41	38	46	43	47	49	46	47	49	51	54	56	55	56	57	53	50	54	59	59	66	60	64	61	60	65	68	72	54.2	EDT	
WESTMINSTER 4 SSE	65	79	85	64	69	76	73	75	71	78	78	82	69	65	83	84	77	76	76	75	81	82	87	88	89	95	89	88	90	98	98	80.2	1800	
HARTSOCK	47	51	59	48	42	41	45	46	50	47	55	51	58	59	60	59	62	64	56	54	55	59	63	67										

ACON MD / DE / DC
MAY 2011 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	61	77	80	61	66	70	71	72	70	74	75	75	64	63	77	76	70	71	71	71	80	77	83	84	85	91	84	83	84	93	94	75.9	2400
GIANNOLA	48	53	58	45	44	41	47	48	51	49	56	51	57	58	61	59	61	60	56	54	57	59	63	70	66	68	65	64	68	70	72	57.4	EDT
NORBECK 1 SE	61	77	81	68	66	69	70	72	73	74	76	75	66	64	75	74	70	69	68	67	80	81	83	82	85	90	85	82	83	93	94	75.9	2200
BERGER	49	53	61	46	43	40	48	49	51	48	57	51	59	59	62	59	62	62	55	53	55	58	64	68	64	67	68	63	68	70	72	57.5	EDT
POTOMAC 4N	61	76	82	70	67	70	70	72	73	74	75	77	63	65	75	74	72	72	71	70	81	82	84	85	86	91	86	82	85	93	94	76.7	2100
COHEN	48	52	52	46	44	42	48	51	49	47	58	53	61	59	62	60	62	62	57	54	54	59	64	69	64	67	69	65	68	70	71	57.6	EDT
OLNEY 1 S	59	75	81	63	67	70	70	72	72	73	74	74	66	63	75	74	69	68	69	69	79	78	81	83	85	90	84	83	85	92	93	75.4	2400
GIANNOLA	48	52	61	45	43	43	48	50	51	48	56	53	58	58	61	58	61	60	55	52	55	59	63	68	69	67	67	64	69	70	71	57.5	EDT
CLARKSBURG 2 ENE	59	75	80	58	65	70	70	72	71	72	74	75	62	63	76	76	71	71	69	69	78	80	81	82	83	89	83	81	83	90	92	74.8	2400
HOLDEN	50	51	58	44	43	47	49	51	49	46	54	51	58	57	59	57	61	57	53	52	56	63	62	66	62	66	63	62	67	69	74	56.7	EST
MONTGOMERY VILLAGE																																	2400
ROTH 1SW																																	EDT
GLENMONT 1NNE	61	78	83	61	69	74	72	75	74	77	78	78	64	65	79	75	74	72	71	69	79	81	85	85	87	93	88	85	86	94	93	77.6	2400
ROSSEN	47	52	58	46	44	41	48	49	48	46	56	52	59	59	62	60	62	60	56	53	54	59	65	69	64	66	66	64	69	70	70	57.2	EST
BETHESDA																																	2400
SCAFIDE																																	EDT
GAITHERSBURG 2WNW	62	76	82	61	68	72	70	73	74	75	77	76	64	64	76	76	73	72	71	69	81	81	82	83	86	90	84	83	85	94	95	76.6	2400
SHAW	48	53	59	46	44	41	48	49	49	48	57	54	61	59	61	59	62	60	56	52	54	59	64	68	63	69	66	64	69	70	71	57.5	EDT
FOREST GLEN	62	80	84	63	71	75	76	78	77	79	80	78	64	66	79	79	78	75	74	73	84	84	86	88	88	93	87	85	86	97	98	79.6	2400
TERRY	47	54	60	45	43	41	47	50	50	48	57	52	60	59	62	59	62	59	55	53	54	59	64	69	64	69	66	64	69	70	72	57.5	EDT
OXON HILL	62	81	83	66	69	74	73	74	75	77	77	77	65	67	78	79	74	74	72	72	82	82	84	86	86	92	86	84	86	96	96	78.4	2300
SMITH	47	54	62	48	46	43	49	52	53	51	57	51	59	59	62	60	62	61	56	53	58	59	64	69	64	68	66	63	67	70	72	58.2	EDT
HOLLYWOOD 3 ENE	64	81	81	76	M	70	72	71	71	M	69	M	71	67	78	75	72	70	73	72	78	78	82	85	83	M	M	89	84	92	91	76.6	2400
GLEASON	50	58	65	M	47	50	53	54	54	M	55	M	53	61	63	59	63	64	59	59	59	62	67	71	67	M	M	72	72	66	74	60.6	EDT
RIDGE	66	79	84	68	68	73	74	72	73	74	72	73	65	69	81	74	73	71	77	76	79	79	86	90	85	92	85	85	86	95	96	77.9	2400
ZYLA	50	57	64	48	45	48	51	54	56	55	57	52	58	60	62	60	62	62	59	58	58	65	67	71	69	71	71	65	70	72	76	60.4	EDT
SMITHSBURG 1.5 SW	59	77	83	59	67	72	70	72	74	78	81	79	65	65	72	77	68	70	70	70	83	80	82	82	85	90	82	83	87	93	94	76.4	2400
HUTTO	46	50	58	44	40	36	43	43	46	41	52	48	61	60	57	57	60	58	53	50	50	56	63	67	60	62	60	62	65	68	66	54.3	EDT
HAGERSTOWN 1E	58	74	81	59	67	71	70	72	72	74	76	76	66	65	71	76	70	72	70	70	81	79	81	82	84	90	83	83	87	93	94	75.7	2400
KEEFER	47	52	59	44	39	38	45	46	48	44	56	53	61	59	59	58	61	56	54	52	52	58	64	67	62	63	62	63	67	70	68	55.7	EDT
SMITHSBURG 3 NE	59	73	79	60	64	67	67	69	69	73	75	75	65	64	71	73	68	68	66	68	83	77	79	80	81	90	80	80	87	95	97	74.3	2400
VAUGHN	50	52	59	42	41	42	48	46	50	43	56	53	60	59	58	57	58	56	41	53	54	64	63	67	61	61	62	63	68	72	69	55.7	EDT
SALISBURY	66	78	83	68	67	71	73	73	75	75	72	75	70	67	80	80	74	73	76	74	81	78	84	90	87	92	86	85	89	95	95	78.5	2400
NWS WICOMICO CO APT	39	50	61	48	47	43	51	46	45	47	44	44	49	56	64	60	62	59	54	55	56	57	64	72	66	66	67	64	67	69	70	56.2	EST
WASH NATIONAL	61	77	81	62	68	71	72	74	73	76	77	74	64	67	75	80	73	72	71	72	83	81	83	87	85	92	86	84	83	96	98	77.4	2400
NWS ASOS	51	55	62	46	46	46	51	54	53	52	58	54	60	59	62	61	63	62	58	55	57	60	64	67	65	68	68	66	69	71	74	59.3	EST
WASH DULLES	62	79	82	60	67	71	70	74	73	75	76	75	63	65	77	78	71	72	72	72	81	80	82	85	84	90	83	81	85	93	94	76.5	2400
NWS ASOS	45	52	60	45	43	40	46	50	48	43	56	52	60	58	61	59	62	58	54	51	51	56	64	67	60	66	65	63	67	70	68	56.1	EST
STERLING 4 N	61	77	80	59	65	70	70	73	70	70	74	74	64	65	74	78	69	69	68	69	76	76	80	81	82	88	82	80	84	90	90	74.5	2400
SHAFFER	49	52	59	46	47	43	52	53	51	47	56	56	61	61	62	61	63	63	57	54	54	59	65	69	65	67	67	66	68	71	70	58.5	EDT
DAVIS 3 SE WV	65	57	72	75	43	52	57	56	57	66	72	72	74	71	69	57	56	57	60	55	60	71	76	72	69	77	79	68	76	82	82	66.3	0700
LESHER	35	50	54	32	29	30	37	38	36	37	46	52	56	56	52	45	45	47	44	44	45	49	56	54	51	55	53	55	57	59	59	47.0	EDT

ACON MD / DE / DC
MAY 2011 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	T		T	0.58		0.32	0.01							0.33	0.32	T	0.57	0.05	1.28	0.16		T	0.01					T				3.63 0.0	2400 EDT
MIDDLETOWN 6 N LEGATES				0.54		0.17	0.01		0.01					0.14	0.18		0.27	0.24	0.26	0.10	0.06			0.01								1.99	2400 EDT
WILMINGTON , DE NWS NEW CASTLE CO APT	T		T	0.46		0.22	T							0.67	0.97	0.10	0.52	T	0.12	0.16		T	0.01	T								3.23 0.0	2400 EST
NEWARK AG FARM, DE U OF DE DEOS				0.53		0.20	0.01							0.27	0.85		0.51	0.01	0.71	0.16												3.25	2400 EDT
TOWNSEND 4 W, DE U of D REC DEOS				0.56		0.15								0.27	0.35	0.01	0.22	0.02	0.26	0.19			0.04									2.07	2400 EDT
GEORGETOWN, DE NWS SUSSEX CO APT	0.06			0.78										0.50	0.06		0.08	0.06	0.18	0.04			0.02									1.78	2400 EST
GEORGETOWN, DE U of D REC DEOS	0.13			0.75										0.33	0.08	0.19	0.07	0.11	0.27									0.05				1.98	2400 EDT
HARBESON 8 S, DE U of D REC DEOS	0.04			0.86										0.16	0.47	0.04	0.25	0.04	0.02	0.06			0.02									1.96	2400 EDT
REHOBOTH BEACH BWK U of D DEOS				0.66										0.03	0.49		0.21	0.04	0.14	0.22			0.10									1.89	2400 EDT
FROSTBURG LATTA	0.03	0.09		0.36	0.05								0.31	0.06	0.93	0.03	0.75	2.16	0.93	0.06			0.22	0.01			0.55	1.78				8.32 0.0	0700 EDT
LAVALE MULLINS**	0.08		0.18	0.34			T					T	0.22	0.06	0.52	0.07	2.03	2.29	0.03				0.39			0.25	1.54					8.00 0.0	2400 EDT
PASADENA 2 N HANSON	0.08			0.80		0.12	0.10						0.02	0.48	1.05		0.11	0.17	0.70	0.02			0.01			0.02						3.68 0.0	2400 EDT
LOTHIAN JUG BAY	0.02			0.80		0.02	0.01							1.57	0.34		0.20	0.24	0.01	0.06			0.05					0.01				3.33 0.0	2400 EDT
BALTIMORE NWS BWI APT	0.06		0.02	0.62		0.13	T						T	0.38	0.39		0.37	0.25	0.11	T			0.02	0.02			0.05					2.42 0.0	2400 EST
LAUREL 2 E STOUDT	0.06	T	T	0.56		0.19							T	0.55	0.13	T	0.36	0.26	0.22	T			0.03	0.02			0.02	T				2.40 0.0	2400 EST
REISTERSTOWN MULLER	0.13			0.38		0.30	0.02						T	0.01	0.14	0.09	0.20	0.30	0.60				0.34				0.14					2.65 0.0	2100 EDT
OWINGS MILLS 2SE SHARROW	0.07		0.02	0.51		0.23							T	0.24	0.03	T	0.55	0.41	0.47	T		T	T	T			0.07	0.03				2.63 0.0	2400 EDT
BALTIMORE 2SE MANFRE	0.08			0.68		0.08								0.38	0.17		0.14	0.33	0.19			T	T	0.01			0.10					2.16 0.0	2400 EDT
BALT INNER HARBOR MD SCIENCE CENTER	0.08			0.60		0.05								0.47	0.44		0.07	0.16	0.10					0.01			0.07	0.01				2.06 0.0	2400 EST
MANCHESTER 1SW CLOSE	0.11	T	T	0.48		0.17	0.04						T	0.26	0.21	0.02	0.11	0.42	0.50	0.02			0.06				0.01	0.01				2.42 0.0	2300 EDT
WESTMINSTER 4 SSE HARTSOCK	0.11	T		0.57			0.15	0.01						0.01	0.40	0.09	0.20	0.82	0.13	0.12			0.13					0.13				2.87 0.0	1800 EDT
MILLERS 4NE MILLER	0.15	0.01	0.02	0.51			0.14	0.02					T	0.02	0.21	0.02	0.32	0.68	2.14	0.03			0.32				T	0.06	T			4.65 0.0	1800 EDT
BRYANS ROAD 2 ESE BRUMBACK																																	2400 EDT
EMMITSBURG 2 SE GLASS		0.11		0.50	0.17		0.01							0.03	0.75	0.40	0.39	0.43	0.42	0.21	0.01		0.02	0.04			T	0.01	0.23			3.73 0.0	0700 EDT

ACON MD / DE / DC
MAY 2011 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	0.04	T		0.49		0.07							T	0.42	0.33	0.19	0.54	0.24	0.22				0.03	0.03			0.25	0.01				2.86 0.0	2400 EDT	
NORBECK 1 SE BERGER	0.08		0.03	0.52		0.07							0.02	0.26	0.48	0.04	0.10	0.28	0.02	0.03			0.12	0.03			0.06					2.14 0.0	2200 EDT	
POTOMAC 4N COHEN	0.06			0.58		0.03							T	0.02	0.40	0.30	T	0.58	0.13	0.09		T	0.27	0.03			0.36	T				2.85 0.0	2100 EDT	
OLNEY 1 S GIANNOLA	0.07	T	>	0.52		0.03		T					0.02	>	0.57	0.01	0.08	0.26	0.19	T		0.01	0.07	0.05			0.02	0.01				1.91 0.0	2400 EDT	
CLARKSBURG 2 ENE HOLDEN	0.09	T	0.22	0.46		0.19		T					0.01	0.76	0.89	0.11	0.41	0.36	0.21	0.01			0.19	0.28			0.19					4.38 0.0	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW																																	2400 EDT	
GLENMONT 1NNE ROSSEN	0.04	T	0.04	0.43		0.11							T	0.55	0.25	0.02	0.06	0.23	0.02	T			0.05	0.03			0.11					1.94 0.0	2400 EST	
BETHESDA SCAFIDE																																	2400 EDT	
GAITHERSBURG 2WNW SHAW	0.07	T	0.08	0.49		0.03							T	0.67	0.68	0.02	0.11	0.40	0.05	0.01		T	0.33	0.08			0.16					3.18 0.0	2400 EDT	
FOREST GLEN TERRY	0.03	T	0.01	0.51		0.09								0.38	0.30	0.18	0.08	0.42	0.04	T			0.05	0.03			0.09	T				2.21 0.0	2400 EDT	
OXON HILL SMITH	0.02	0.01		0.76				0.01			T		T	0.57	T		0.04	0.14	0.17				0.07	0.12	0.05		0.02					1.98 0.0	2300 EDT	
HOLLYWOOD 3 ENE GLEASON		T	T	0.46	0.35	0.01			T					0.01	0.64	1.03	0.08	0.02	0.14	0.01	T		0.11	0.01	0.02							2.89 0.0	0700 EDT	
RIDGE ZYLA				0.89		0.06	0.01					0.12	T	0.51	0.07	0.01	0.14	0.74	0.05				0.08										2.68 0.0	2400 EDT
SMITHSBURG 1.5 SW HUTTO	0.15	0.01	0.13	0.49									0.06	0.29	0.41	0.19	0.36	0.80	0.60	0.02			0.11			0.51	0.36					4.49 0.0	2400 EDT	
HAGERSTOWN 1E KEEFER	0.13	0.01	0.18	0.42									0.03	0.26	0.74	0.50	0.11	0.73	0.47	0.02			0.10			0.41	0.41					4.52 0.0	2400 EDT	
SMITHSBURG 3 NE VAUGHN	0.14	0.01	0.12	0.51									T	0.32	0.32	0.08	0.24	0.45	0.47	0.04	T	T	0.06			0.79	0.10	0.17				3.82 0.0	2400 EDT	
SALISBURY NWS WICOMICO CO APT	T			0.70		T								0.44	0.01		0.27	0.10	T	0.01			0.11		0.02			0.02				1.68 0.0	2400 EST	
WASH NATIONAL NWS ASOS	0.01	T	0.02	0.56		T	T	T					T	0.48	T	0.19	0.01	0.20	0.12	T		T	0.02	0.03	T		0.06	T				1.70 0.0	2400 EST	
WASH DULLES NWS ASOS	0.02		0.15	0.43		0.02		0.01					0.04	0.39	0.18	0.03	0.72	0.77	0.14	T		T	0.32	0.05			0.01	T				3.28 0.0	2400 EST	
STERLING 4 N SHAFFER	0.03	0.01	T	0.66									0.02	0.32	0.67	0.19	0.03	0.52	0.08	0.02		0.01	0.16	0.04			0.09	0.01				2.86 0.0	2400 EDT	
DAVIS 3 SE WV LESHER		0.01	T	0.51 0.3	0.01 T		0.08	0.04	T		0.13		0.35	0.52	0.25	0.11	0.74	1.64	0.07	0.06	0.04		T	0.14	0.64	T	0.82 T	0.52				6.68 0.3	0700 EDT	