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

MILD MONTH—WETTEST IN NORTHERN AREAS

November was a fairly quiet month. **Jeff Stoudt** of **Laurel 2 E** made the following comment in his monthly report: "Overall, this November was a great month for doing those outdoor late autumn chores and preparing for winter." **Kevin Shaw** of **Gaithersburg 2 WNW** said: "Really, overall a rather humdrum month that lacked extremes." **Joe Terry** of **Forest Glen** said: "Overall, rather boring for being a normally strong transitional month."

Precipitation was above normal in the northern areas and below normal in the central and southern areas. Almost all of the months rain fell during three events. These events all occurred in the second half of the month. East of the Western Maryland mountains no snow fell.

The first nine days were mostly sunny with maximum temperatures generally in the 50's and 60's along with a few 70's on the 8th. Minimum temperatures were generally in the 30's with a few 20's and a few 40's. Showers on the 10th brought only a tenth of an inch of rain.

The 11th was windy and colder. Maximum temperatures failed to rise out of the 40's. Temperatures rose into the 70's on the 14th. This was the warmest day of the month at many stations. Minimum temperatures on the 15th were in the mid 50's.

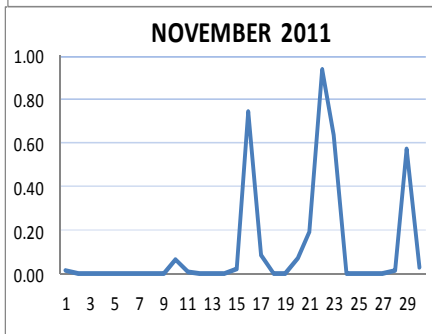
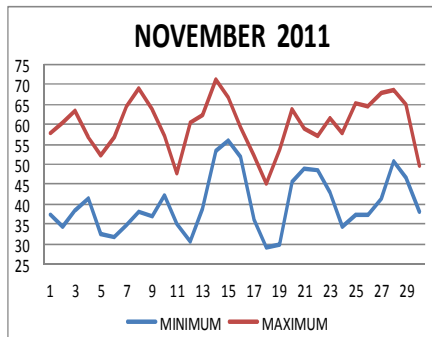
The first of three rain events during the last half of the month occurred on the 16th/17th. The heaviest amounts of one to two plus inches fell from east of Washington, D.C. into Sussex County Delaware. 2.34" fell at **DEOS Harbeson 8 SE, DE** and 2.33" at **DEOS Rehoboth Beach, DE**.

The coldest temperatures of the month followed this rain event. Sub freezing temperatures occurred on the 18th and 19th at all but the warmer locations.

The last ten days of the month were mild. Maximum temperatures were generally in the 60's along with some 70's on the 28th. Minimum temperatures were generally in the 30's and 40's. Rain fell from the 20th to 23rd and on the 29th.

The rain event from the 20th to the 23rd brought amounts of over an inch to areas from Washington D.C. northwards. Three inch plus amounts fell in Carroll and Frederick Counties. **Bobby Miller** of **Millers 4 NE** reported 3.59", **Herb Close** of **Manchester 1 SW** 3.55", **Ralph Hartsock** of **Westminster 4 SSE** 3.48", **Eric Glass** of **Emmitsburg 2 SE** 3.46", **Jim Vaughn** of **Smithsburg 3 NE** 3.29" and **Mac Hutto** of **Smithsburg 1.5 SW** 3.12". **Bobby Miller** of **Millers 4 NE** reported local streams and rivers in Carroll County were out of their banks the morning of the 23rd. Winds on the 23rd gusted to over 40 MPH.

Thanksgiving, the 24th, was sunny and mild with maximum temperatures generally in the mid 50's to lower 60's range.



ACON MD/DE Network
Daily average temperatures and precipitation based on observation times, not calendar days.

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Lothian	77
Bryans Road 2 ESE	75
Glenmont 1 NNE	75
Forest Glen	75

MINIMUM TEMPERATURE

Davis 3 SE WV	15
Frostburg	22
Emmitsburg 2 SE	24

WARMEST AVG. TEMP.

Ridge	54.0
Hollywood 3 ENE	53.3
DEOS Rehoboth Bch DE	53.2

COLDEST AVG. TEMP.

Davis 3 SE WV	43.4
Frostburg	44.5
LaVale	46.1

MAXIMUM PRECIPITATION

Westminster 4 SSE	5.42
Millers 4 NE	5.23
Davis 3 SE WV	5.20

MINIMUM PRECIPITATION

Bethesda	2.08
Forest Glen	2.27
Laurel 2 E	2.34

MAXIMUM SNOWFALL

Davis 3 SE WV	7.1
Frostburg	0.4

Warm temperatures in the 60's with a few lower 70's occurred from the 25th to the 29th. The 29th was warm, windy, and wet. Over an inch of rain fell in New Castle County DE. **David Legates** of **Middletown 6 N DE** observed the greatest amount of 1.28".

The last day of the month was windy with temperatures falling into the 40's.

OBSERVER COMMENTS FOR NOVEMBER 2011

Gary Gallaher of Bear 2 SW, DE

Quiet, warm month, dry first half, wet second half. Daily average peak wind gust of 19.6 mph is the lowest in 22 years of wind records.

7th,9th,10th - Dense fog at sunrise

Greg Latta of Frostburg

23rd - Thunder occurred during the previous 24 hours ending at obs (7 AM) time.

Nate Mullins of LaVale

Second wettest fall on record with 17.01" of precipitation. The wettest fall is 1996 with 18.02".

15th - Record maximum minimum temperature of 53°. Old record was 52° in 1993.

Jeff Stoudt of Laurel 2 E

Mostly mild month. November became the first convincingly drier than average month since June.

10th - Periods of light rain mid afternoon thru dusk.

22nd - Periods of rain, mostly during daylight.

Marty Sharrow of Owings Mills

Temperatures as a whole about 3.0° above normal. Precipitation about 0.5" above normal.

2nd - Frosty start, then sunny, milder.

7th - Morning fog, then sunny and warmer.

17th - Overcast, breezy, much cooler.

Ralph Hartsock of Westminster 4 SSE

5th - Sunny, chilly. Some snow piles remain from the Oct 29 storm.

10th - Sunny, windy, colder.

22nd - Moderate to heavy rain.

23rd - Very heavy rain early, clearing late, flooding.

Bobby Miller of Millers 4 NE

1st - Clear, scattered afternoon cumulus. Snow on the ground in shade only.

8th & 9th - Clear, 100% sun, few evening cirrus.

23rd - Am heavy rain, thunder, local flooding.

25th - Scattered cirrus and contrails.

Eric Glass of Emmitsburg 2 SE

11th - Partly sunny, very windy and cool.

16th - Heavy drizzle

Rich Giannola of JHU/APL

Maximum barometric pressure 30.51" on the 6th

Minimum barometric pressure 29.61" on the 23rd

Rob Cohen of Potomac 4 N

17th - Afternoon temperature in the 40's.

27th - Record daily maximum temperature.

Rich Giannola of Olney 1 S

29th - Moderate rain during day especially in the afternoon.

Richard Holden of Clarksburg 2 ENE

16th - Heavy rain.

22nd / 23rd - Heavy rain.

Kevin Shaw of Gaithersburg 2 WNW

November was warmer and drier than normal. The mean temperature was my fifth warmest.

Precipitation records are now a full 33 year time period.

14th & 15th - Daily maximum minimum temperature set each day.

21st & 22nd - Fog, at times dense AM.

23rd - Very modest daily precipitation record of 0.53".

27th - Tied daily maximum temperature of 69°.

Joe Terry of Forest Glen

Above normal temperatures and below normal precipitation. Lots of warm 60 & 70 degree days but cold nights.

29th - Only brief sunshine late day and much colder. Apparent cold FROPA around 1020. Warm temperatures in the low to mid 60's up until FROPA then falling rapidly to around 50° by early afternoon.

Brian Smith of Oxon Hill

10th - -RA 1200 - 1900.

29th - -RA/+SHRA 0930 - 1530, 0.55".

John Zyla of Ridge

Lots of fog, but no snow or freezing temperatures yet this season.

8th - 11th - Peak fall colors.

19th - Most leaves are brown now.

23rd - Heavy rain from 5:10 - 6:15AM. Most of the leaves off the trees.

Max Hutto of Smithsburg 1.5 SW

8th - Sunny, warmer, breezy.

16th - AM fog, Rain overnight and throughout the day. Slightly cooler, breezy.

24th - Sunny, mild temperatures, breezy.

Greg Keefer of Hagerstown 1 E

Maximum barometric pressure 30.54" on the 6th

Minimum barometric pressure 29.60" on the 23rd

4th - Partly cloudy, NNE winds gusting to 32 MPH.

18th - Sunny, cold.

22nd - Rain all day. Rain was moderate to heavy at times.

23rd - Rain overnight. Mostly to partly cloudy and windy today with strong NW winds gusting to 40 MPH.

Jim Vaughn of Smithsburg 2 NE

Winds ≥40 mph on the 13th, 14th, 22nd, 23rd, 29th.

27th - 65 tied maximum temperature set in 2006. 45 minimum broke the previous daily record of 43 set in 2001.

28th - 56 minimum broke the previous daily record of 47 set in 2001.

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
NOVEMBER 2011 SUMMARY**

OBSERVER	STATION COUNTY, STATE	TEMPERATURE									PEAK WIND			PRECIPITATION					SNOWFALL				OBS TIME			
		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON	
<i>New Castle, Delaware</i>																										
Gallagher, Gary	Bear 2 SW	59.6	38.5	49.1	71	14	25	19	0	0	7	36	W	11	4.01	1.54	22	56.73	8	2	0.0	0.0		0.3	2400	
Legates, David	Middletown 6 N	60.3	39.5	49.9	72	8+	27	19	0	0	5	24		11	4.02	1.58	22	52.11	9	2					2400	
NWS Wilmington	New Castle Co. Apt.	59.8	39.3	49.6	74	8	28	6+	0	0	6	40	NW	11	4.13	1.64	22	52.14	9	2	0.0	0.0		0.3	2400	
U of D AG FARM DEOS***	Newark	59.3	39.1	49.2	71	8	25	19	0	0	5	23		11	4.29	1.49	22	45.72	7	2					2400	
U of D REC DEOS***	Townsend 4 W	59.7	40.3	50.0	73	28	29	6	0	0	5	30		29	3.52	1.27	22	56.64	8	2					2400	
<i>Sussex, Delaware</i>																										
NWS Georgetown	Sussex Co. Airport	62.7	41.7	52.2	73	14+	28	12	0	0	3	33	WSW	13	3.04	1.29	16	33.02	9	1					2400	
U of D REC DEOS***	Georgetown 5 SW	60.7	40.0	50.4	71	14+	27	12	0	0	7	27		23	3.05	1.37	16	37.11	11	1					2400	
U of D REC DEOS***	Harbeson 8 S	61.3	39.8	50.6	72	14	26	12+	0	0	6	25		13+	3.46	2.06	16	35.60	12	1					2400	
U of D DEOS***	Rehoboth Beach Bwk	59.9	46.4	53.2	73	14	33	18	0	0	0	32		5	3.76	1.88	16	33.02	10	1					2400	
<i>Allegany, Maryland</i>																										
Latta, Greg	Frostburg	54.0	35.0	44.5	72	15	22	18+	0	0	13				3.28	1.10	23	52.51	10	1	0.4	0.4	11	9.5	0700	
Mullins, Nate**	LaVale	56.6	35.5	46.1	74	14	25	12+	0	0	12				3.09	1.32	22	48.14	7	1	0.0	0.0		7.0	2400	
<i>Anne Arundel, Maryland</i>																										
Hanson, Dan	Pasadena 2 N	61.1	39.2	50.2	74	14	28	18	0	0	7	29	SSE	29	3.04	1.42	22	53.99	13	1	0.0	0.0		0.0	2400	
Jug Bay Wetlands	Lothian	62.6	38.9	50.8	76	14	26	18+	0	0	9				3.33	1.05	16	52.52	13	1	0.0	0.0		0.0	2400	
NWS Baltimore	BWI Airport	62.0	39.1	50.6	74	14	26	19	0	0	7	41	NW	23	2.45	1.17	22	52.02	9	1	0.0	0.0		T	2400	
Stoudt, Jeff	Laurel 2 E	60.9	40.5	50.7	73	14	29	18+	0	0	4				2.34	0.99	22	51.40	8	0	0.0	0.0		0.2	2400	
<i>Baltimore, Maryland</i>																										
Muller, Ray	Reisterstown	59.0	41.5	50.3	72	14	29	18	0	0	3				4.94	1.35	23	54.13	8	2	0.0	0.0		3.6	2100	
Sharrow, Marty	Owings Mills 2 SE	57.2	38.6	47.9	69	14	27	18+	0	0	6				3.88	1.53	22	52.60	7	1	0.0	0.0		1.1	2400	
<i>Baltimore City, Maryland</i>																										
Manfre, Joe	Baltimore 2 SE	STATION TEMPORARILY CLOSED NOV & DEC																				47.87			0.0	2400
Maryland Science Ctr	Baltimore Inner Harbor	63.1	46.4	54.8	77	14	36	18	0	0	0				3.09	1.73	22	49.67	7	1					2400	
<i>Carroll, Maryland</i>																										
Close Jr, Herb	Manchester 1 SW	57.6	39.4	48.5	70	8	25	18	0	0	7				5.14	1.57	23	58.23	8	2	0.0	0.0		7.8	2300	
Hartsock, Ralph	Westminster 4 SSE	56.7	39.1	47.9	68	28	27	19	0	0	10	36	WNW	11	5.42	1.60	23	51.32	7	3	0.0	0.0		2.2	1900	
Miller, Bobby	Millers 4 NE	58.3	39.2	48.8	71	8	26	18	0	0	6	41	NNW	23	5.23	1.88	23	59.76	8	2	0.0	0.0		6.1	1800	
<i>Charles, Maryland</i>																										
Brumback, Marty	Bryans Road 2 ESE	62.8	41.8	52.3	75	14	30	12	0	0	3	30	WNW	23	3.08	1.10	16	35.73	8	1	0.0	0.0		T	2359	
<i>Frederick, Maryland</i>																										
Glass, Eric	Emmitsburg 2 SE	57.5	35.2	46.4	68	9	24	19	0	0	15				4.90	2.79	23	58.23	9	1	0.0	0.0		3.0	0700	

**ACON MD / DE / DC
NOVEMBER 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	59.4	39.9	49.7	71	14	28	19	0	0	5	43	NW	23	2.45	0.98	22	45.37	7	0	0.0	0.0		0.1	2400
<u>Montgomery, Maryland</u>																									
Berger, Ron	Norbeck 1 SE	60.0	39.5	49.8	72	14	28	6+	0	0	6				2.74	1.02	22	44.40	8	1	0.0	0.0		0.1	2200
Cohen, Rob	Potomac 4 N	60.5	39.5	50.0	74	14	29	12+	0	0	6				2.92	0.95	22	48.74	9	0	0.0	0.0		0.1	2100
Giannola, Rich	Olney 1 S	60.1	39.9	50.0	72	14	27	18	0	0	6				2.86	1.29	21-22	42.27	7	1	0.0	0.0		0.6	2400
Holden, Richard	Clarksburg 2 ENE	58.5	41.1	49.8	70	14	29	18	0	0	4	47	NW	23	3.67	1.13	22	57.19	9	1	0.0	0.0		3.8	2400
Roth, David	Montgomery Village 1SW																	<u>12.02</u>							2400
Rossen, Stan	Glenmont 1 NNE	62.3	38.2	50.3	75	14	27	19	0	0	8	20		23+	2.35	0.84	22	44.17	8	0	0.0	0.0		T	2400
Scafide, Tony	Bethesda	59.8	40.0	49.9	73	14	29	18	0	0	5	23		23	2.08	0.76	22	<u>38.22</u>	10	0					2400
Shaw, Kevin	Gaithersburg 2 WNW	59.3	38.8	49.1	72	14	29	6+	0	0	5	20	NW+	11+	3.00	0.99	22	50.50	8	0	0.0	0.0		0.8	2400
Terry, Joe	Forest Glen	63.0	40.0	51.5	75	14	29	12	0	0	3	36	W	23	2.27	0.73	22	45.82	8	0	0.0	0.0		0.2	2400
<u>Prince Georges, Maryland</u>																									
Smith, Brian	Oxon Hill	61.4	41.7	51.6	73	14	31	12	0	0	1				2.38	0.70	16	51.45	8	0	0.0	0.0		0.1	2300
<u>St. Marys, Maryland</u>																									
Gleason, Wes	Hollywood 3 ENE	61.8	44.8	53.3	74	14	34	12	0	0	0				2.66	1.09	16	48.71	12	1	0.0	0.0		0.0	2400
Zyla, John	Ridge	62.0	46.0	54.0	74	14	33	18	0	0	0	27	NE	23	4.03	1.94	16	49.52	9	1	0.0	0.0		0.0	2400
<u>Washington, Maryland</u>																									
Hutto, Max	Smithsburg 1.5 SW	58.5	36.5	47.5	69	8	25	6	0	0	13	30		23	4.98	1.62	22	55.12	9	1	0.0	0.0		6.3	2400
Keefer, Greg	Hagerstown 1 E	58.0	36.5	47.3	69	8	25	6	0	0	12	40	NW	23	4.13	1.32	22	49.48	8	1	0.0	0.0		3.7	2400
Vaughn, Jim	Smithsburg 3 NE	58.4	39.3	48.9	69	8	26	18	0	0	5	47	SW	13	4.99	1.64	22	50.11	9	1	0.0	0.0		7.3	2400
<u>Wicomico, Maryland</u>																									
NWS Salisbury	Wicomico Co. Apt	64.4	41.4	52.9	74	28+	28	12+	0	0	4	38	NW	11	2.31	0.64	23	37.46	10	0					2400
<u>Arlington, Virginia</u>																									
NWS Washington National	National Airport	61.5	43.3	52.4	73	14	33	12	0	0	0	39	WNW	23	1.94	0.55	22	41.99	8	0	0.0	0.0		T	2400
<u>Loudon, Virginia</u>																									
NWS Washington Dulles	Dulles Airport	60.7	37.5	49.1	73	14	27	6+	0	0	14	44	NW	23	2.18	0.70	22	41.74	8	0	0.0	0.0		0.6	2400
Shaffer, Lance	Sterling 4 N																	<u>17.75</u>							2400
<u>Tucker, West Virginia</u>																									
Leshner, Dave	Davis 3 SE WV	52.4	34.4	43.4	68	10	15	18+	0	1	12				5.20	1.76	23	73.98	14	1	7.1	3.2	30	24.2	0700
SECTION AVERAGE*		60.1	40.0	50.0											3.43			49.48			T			2.1	

NOTES:

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.

*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.
 **OBSERVER FOR LAVALE IS SCOTT LOHR. DATA COMPILED BY NATE MULLINS.
 *** DATA FROM DEOS (DELAWARE ENVIRONMENTAL OBSERVING SYSTEM) PERMISSION GRANTED FOR USE OF DATA
 *** REC= UNIVERSITY OF DELAWARE RESEARCH AND EDUCATION CENTER

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**ACON MD / DE / DC
NOVEMBER 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	AVG	OBS TIME
BEAR 2 SW, DE GALLAHER	59 36	60 31	63 34	58 40	53 30	56 28	62 32	70 37	63 34	60 44	49 37	58 29	61 37	71 55	67 55	53 38	45 28	54 25	63 44	57 49	53 49	62 41	58 33	63 35	63 33	66 35	70 44	64 47	51 41	59.6 38.5	2400 EDT/EST	
MIDDLETOWN 6 N LEGATES	59 37	61 32	64 37	58 41	52 33	58 29	64 34	72 37	63 36	59 44	50 39	59 30	62 41	72 54	67 56	57 53	53 46	48 55	67 64	56 54	54 62	59 62	65 59	65 61	67 67	71 71	66 66	51 41	60.3 39.5	2400 EDT/EST		
WILMINGTON, DE NWS NEW CASTLE CO APT	60 36	59 32	63 36	58 42	53 32	55 28	62 34	74 39	60 36	59 43	49 37	58 34	61 34	70 54	67 57	58 53	46 36	54 28	65 45	56 50	52 49	61 40	58 33	64 38	65 32	66 36	68 46	68 48	52 40	59.8 39.3	2400 EST	
NEWARK AG FARM, DE U OF DE DEOS	58 37	60 32	62 35	56 41	53 32	56 39	63 34	71 39	63 36	58 43	48 36	58 28	61 34	70 55	66 54	57 52	45 37	54 29	64 25	56 43	52 48	60 40	58 35	65 37	64 34	66 36	70 47	64 48	50 40	59.3 39.1	2400 EDT/EST	
TOWNSEND 4 W, DE U of D REC DEOS	57 37	60 31	63 38	56 41	51 32	57 29	63 33	70 37	65 35	57 43	48 36	59 30	62 47	71 54	67 56	58 52	44 32	55 33	63 49	55 48	55 48	63 41	56 35	64 39	66 35	68 39	73 54	66 47	50 40	59.7 40.3	2400 EDT/EST	
GEORGETOWN, DE NWS SUSSEX CO APT	60 37	61 34	64 37	56 39	53 34	58 37	65 35	70 36	70 37	62 45	50 36	61 28	66 43	73 59	70 58	68 56	56 37	46 29	58 30	66 50	63 54	64 53	67 46	57 37	66 37	64 36	70 44	73 58	72 48	52 42	62.7 41.7	2400 EST
GEORGETOWN, DE U of D REC DEOS	57 36	60 31	62 34	54 37	51 31	58 31	64 32	69 33	69 34	53 43	48 35	59 27	63 46	71 58	68 57	53 53	44 36	56 28	64 48	60 52	62 51	66 44	55 34	65 36	63 37	68 45	71 56	70 46	50 41	60.7 40.0	2400 EDT/EST	
HARBESON 8 S, DE U of D REC DEOS	58 33	58 30	64 33	55 36	51 31	55 32	64 33	69 33	67 34	59 43	49 33	60 26	64 44	72 58	70 57	67 55	55 44	47 27	65 49	60 53	63 51	66 45	56 36	66 37	64 36	69 43	71 58	70 47	51 41	61.3 39.8	2400 EDT/EST	
REHOBOTH BEACH BWK U of D DEOS	57 53	54 45	62 44	54 47	50 44	54 47	61 45	61 44	58 44	58 44	49 44	62 39	64 49	73 59	70 58	65 55	46 36	59 33	66 35	58 52	61 54	67 49	57 52	68 49	63 50	69 60	61 59	63 61	51 55	59.9 46.4	2400 EDT/EST	
FROSTBURG LATTA	41 28	54 30	59 31	64 37	53 27	46 27	62 52	66 38	65 38	64 37	43 28	37 26	58 31	61 43	72 51	53 48	33 32	36 22	39 22	54 26	48 49	49 41	52 41	49 33	50 34	60 39	59 40	59 43	61 49	55 32	54.0 35.0	0700 EDT/EST
LAVALE MULLINS**	52 30	58 32	61 35	56 42	47 28	58 26	62 29	68 33	64 30	51 35	43 34	64 25	62 37	74 48	67 53	46 46	44 31	52 26	56 25	52 38	52 45	50 39	54 33	66 32	64 32	56 37	62 45	62 40	42 33	56.6 35.5	2400 EDT/EST	
PASADENA 2 N HANSON	60 37	62 32	64 37	57 45	51 30	58 29	66 34	71 36	61 35	59 44	49 39	62 29	64 38	74 56	68 57	52 52	46 28	55 30	68 48	59 48	58 44	62 40	60 31	71 33	65 33	69 39	68 46	67 47	51 39	61.1 39.2	2400 EDT/EST	
LOTHIAN JUG BAY	60 37	63 30	66 39	59 43	53 31	59 28	68 35	71 34	63 32	60 43	51 34	64 28	67 40	76 56	68 57	62 52	47 35	56 26	70 51	64 51	59 50	65 42	59 32	69 31	69 33	73 39	74 50	66 47	51 37	62.6 38.9	2400 EDT/EST	
BALTIMORE NWS BWI APT	62 37	62 33	65 38	58 43	52 31	59 30	69 33	71 36	63 35	57 43	50 36	62 31	64 32	74 56	68 57	58 52	53 36	46 29	55 26	68 46	61 49	61 49	64 44	60 31	70 36	70 36	71 36	69 45	67 48	50 39	62.0 39.1	2400 EST
LAUREL 2 E STOUDT	57 40	61 37	63 40	57 43	53 34	58 31	67 36	71 39	65 37	55 43	48 37	63 31	63 38	73 55	66 59	51 51	48 29	54 29	67 46	61 49	59 49	63 44	59 34	69 37	67 38	69 39	69 49	65 46	48 38	60.9 40.5	2400 EST	
REISTERSTOWN MULLER	58 39	60 38	61 43	54 44	53 33	56 32	65 38	68 47	62 39	52 42	42 36	61 32	59 35	72 54	65 57	59 50	49 37	56 29	63 47	57 47	53 47	61 43	60 35	70 43	63 46	68 46	62 45	62 45	49 40	59.0 41.5	2100 EDT/EST	
OWINGS MILLS 2SE SHARROW	55 39	60 33	61 37	54 43	49 32	54 28	65 34	66 39	60 36	53 41	45 34	58 30	58 35	69 50	64 56	56 51	49 35	42 27	51 27	61 42	56 45	53 45	60 43	55 32	63 39	62 36	64 39	64 47	46 36	57.2 38.6	2400 EDT/EST	
BALTIMORE 2SE MANFRE																																2400 EDT/EST
BALT INNER HARBOR MD SCIENCE CENTER	61 48	62 44	66 46	59 47	56 41	59 40	64 45	70 47	62 46	60 48	50 42	64 37	66 44	77 56	70 62	57 41	49 36	59 47	70 52	62 59	59 52	64 50	62 48	72 40	69 47	72 45	69 55	69 52	52 44	63.1 46.4	2400 EST	
MANCHESTER 1SW CLOSE	57 38	62 40	62 39	53 38	50 29	54 32	66 40	70 47	63 43	50 39	60 33	65 34	68 49	54 52	47 47	58 32	44 25	44 28	64 44	55 44	52 44	59 44	52 38	63 31	62 42	64 46	67 42	62 51	45 32	57.6 39.4	2300 EDT/EST	
WESTMINSTER 4 SSE HARTSOCK	57 34	58 31	62 37	53 44	49 32	53 29	60 31	64 41	59 44	51 44	47 32	56 31	59 31	67 49	63 58	57 55	50 37	42 29	50 27	60 41	55 47	52 47	59 45	54 31	61 42	62 40	64 40	68 50	63 49	47 36	56.7 39.1	1900 EDT/EST
MILLERS 4NE MILLER	56 36	60 33	63 38	57 43	51 29	55 29	66 35	71 42	63 40	51 42	45 35	60 30	59 33	69 50	65 57	57 52	53 27	42 26	52 41	55 45	51 45	59 44	57 31	64 39	64 43	66 40	69 51	63 46	47 36	58.3 39.2	1800 EDT/EST	
BRYANS ROAD 2 ESE BRUMBACK	60 40	63 34	65 43	60 45	54 33	61 31	67 36	71 37	64 35	60 43	51 32	64 30	66 47	75 56	69 57	60 52	52 36	47 33	56 36	69 50	65 53	62 45	67 36	61 34	68 41	65 41	73 47	74 57	64 46	62.8 41.8	2359 EDT/EST	
EMMITSBURG 2 SE GLASS	51 27	56 31	60 30	62 35	54 32	50 25	65 28	68 30	64 31	52 30	47 36	60 29	58 31	65 32	60 51	56 52	44 43	44 30	52 24	59 25	51 45	54 46	58 33	58 43	66 33	60 33	66 35	67 52	64 39	57.5 35.2	0700 EDT/EST	

**ACON MD / DE / DC
NOVEMBER 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	AVG	OBS TIME				
LAUREL JHU / APL	58	61	62	54	51	57	67	69	63	53	45	61	61	71	65	57	51	44	52	65	57	59	61	57	69	65	68	67	63	47	59.4	2400				
GIANNOLA	39	33	38	41	32	29	32	37	35	42	36	34	43	54	57	50	35	30	28	49	47	47	41	35	44	38	40	51	45	36	39.9	EDT/EST				
NORBECK 1 SE	57	61	64	56	53	57	65	69	63	55	48	62	62	72	67	58	52	44	52	66	59	59	62	58	67	64	69	67	63	49	60.0	2200				
BERGER	40	33	39	39	32	28	32	36	34	43	37	28	36	54	57	52	37	29	29	48	49	49	43	33	36	35	41	51	48	37	39.5	EDT/EST				
POTOMAC 4N	59	63	65	58	55	61	66	69	64	54	48	62	61	74	68	58	52	45	53	64	60	57	61	59	65	63	69	69	64	48	60.5	2100				
COHEN	37	32	38	44	33	30	34	36	40	44	37	29	34	52	57	52	38	29	29	44	49	49	44	33	32	34	39	50	48	37	39.5	EDT/EST				
OLNEY 1 S	59	63	64	57	53	57	67	70	64	53	47	63	61	72	67	57	52	45	53	63	57	59	62	59	68	66	68	68	63	47	60.1	2400				
GIANNOLA	38	35	41	45	32	30	35	39	37	42	34	30	40	53	56	51	35	27	31	48	47	48	42	32	36	38	42	50	47	37	39.9	EDT/EST				
CLARKSBURG 2ENE	57	60	63	53	52	57	64	68	64	52	46	61	60	70	64	56	49	44	53	59	56	57	58	57	66	66	67	68	62	45	58.5	2400				
HOLDEN	36	41	40	37	31	35	39	48	43	39	35	32	40	52	55	49	34	29	31	48	46	47	40	37	44	46	46	53	44	35	41.1	EST				
MONTGOMERY VILLAGE ROTH 1SW																																	2400	EDT/EST		
GLENMONT 1NNE	61	65	67	58	56	61	69	73	67	56	51	65	63	75	66	59	52	47	56	67	60	61	63	60	70	66	71	70	64	50	62.3	2400				
ROSSEN	38	33	37	37	31	29	33	35	34	42	32	28	33	54	56	52	35	28	27	46	49	49	43	33	32	32	37	49	46	37	38.2	EST				
BETHESDA	58	60	61	56	51	56	63	66	62	57	47	62	62	73	64	58	50	44	53	66	60	62	62	58	67	66	70	69	63	48	59.8	2400				
SCAFIDE	40	35	41	41	33	32	37	39	38	40	32	31	40	53	56	50	35	29	32	48	49	49	39	34	36	39	44	52	44	37	40.0	EDT/EST				
GAITHERSBURG 2WNW	58	60	63	55	52	56	63	67	62	53	47	61	62	72	66	58	51	46	54	62	56	57	58	59	66	65	69	70	63	48	59.3	2400				
SHAW	37	33	38	39	32	29	33	36	34	42	34	29	34	53	57	51	36	30	30	44	48	48	43	34	33	33	40	50	46	37	38.8	EDT/EST				
FOREST GLEN	62	64	66	61	56	61	69	72	67	57	51	65	65	75	66	59	51	49	56	68	63	61	63	62	72	69	72	73	64	50	63.0	2400				
TERRY	39	34	41	39	33	31	36	37	36	41	33	29	38	54	57	51	35	30	34	48	49	49	43	33	35	36	44	51	47	38	40.0	EDT/EST				
OXON HILL	59	61	64	58	51	59	66	68	63	57	48	62	64	73	66	60	53	46	55	67	64	62	64	61	68	65	71	71	65	50	61.4	2300				
SMITH	40	36	40	46	35	33	38	38	37	46	36	31	43	55	57	52	38	33	33	49	50	50	48	35	35	38	46	52	45	37	41.7	EDT/EST				
HOLLYWOOD 3 ENE	60	60	63	57	55	58	68	66	62	62	51	63	65	74	67	67	54	48	56	66	63	63	68	60	62	64	70	69	63	51	61.8	2400				
GLEASON	43	41	45	48	41	39	41	40	42	47	38	34	50	57	57	54	40	35	36	49	55	54	47	42	39	41	48	50	49	42	44.8	EDT/EST				
RIDGE	59	59	64	56	55	58	67	68	62	63	51	64	64	74	70	67	53	46	57	67	63	63	70	58	64	65	70	69	62	51	62.0	2400				
ZYLA	46	42	46	48	41	43	45	46	46	46	37	36	50	57	57	53	37	33	40	51	54	54	46	40	45	47	51	57	48	41	46.0	EDT/EST				
SMITHSBURG 1.5 SW	56	61	66	54	52	56	65	69	65	57	45	63	62	68	65	57	49	43	53	62	54	51	55	58	64	63	66	67	64	45	58.5	2400				
HUTTO	29	28	33	41	28	25	28	32	30	37	35	32	30	53	53	49	34	28	26	45	46	46	39	32	33	31	33	58	45	35	36.5	EDT/EST				
HAGERSTOWN 1E	57	61	66	54	53	56	66	69	64	55	45	63	60	67	64	56	49	43	51	59	54	48	57	58	63	62	65	66	64	45	58.0	2400				
KEEFER	31	29	34	39	29	25	29	33	31	39	32	30	33	49	54	49	33	28	27	44	45	45	40	30	34	31	34	57	45	35	36.5	EDT/EST				
SMITHSBURG 3 NE	55	60	66	54	51	56	64	69	66	57	44	61	61	67	66	57	50	43	51	61	57	56	57	57	62	62	65	68	63	45	58.4	2400				
VAUGHN	33	34	39	37	30	38	35	38	45	37	32	32	41	51	54	49	31	26	33	45	44	44	38	37	41	41	45	56	41	33	39.3	EDT/EST				
SALISBURY	61	64	65	57	55	60	67	71	72	68	51	62	66	73	71	70	57	47	60	68	65	66	69	58	67	69	72	74	74	54	64.4	2400				
NWS WICOMICO CO APT	37	34	34	38	35	38	34	36	46	31	28	47	59	56	57	36	29	28	46	56	55	47	38	35	33	45	59	48	43	43	41.4	EST				
WASH NATIONAL	61	60	64	59	53	59	67	68	64	59	50	63	64	73	68	59	53	48	55	65	64	61	64	61	63	61	72	71	66	51	61.5	2400				
NWS ASOS	44	41	44	44	38	37	40	41	42	46	38	33	44	54	57	53	39	34	37	50	50	50	45	38	38	39	46	51	47	40	43.3	EST				
WASH DULLES	60	61	65	56	53	58	67	69	65	54	50	62	63	73	66	58	52	46	55	64	62	53	61	61	66	67	70	70	64	50	60.7	2400				
NWS ASOS	36	31	37	41	30	27	32	31	30	38	30	29	32	53	56	52	36	27	29	48	49	48	44	32	29	31	37	51	43	36	37.5	EST				
STERLING 4 N																																		2400	EDT/EST	
SHAFFER																																				
DAVIS 3 SE WV	42	50	61	63	51	48	62	61	67	68	46	36	52	57	64	52	51	27	42	52	50	51	54	45	43	54	52	61	58	51	52.4	0700				
LESLER	26	26	33	40	24	25	37	35	39	44	21	22	36	42	45	44	27	15	15	38	48	48	45	28	29	36	42	46	51	25	34.4	EDT/EST				

**ACON MD / DE / DC
NOVEMBER 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	TOTAL	OBS TIME	
BEAR 2 SW, DE GALLAHER										0.08						0.64	0.01			0.07	0.16	1.54	0.32					T	1.19	T	4.01 0.0	2400 EDT/EST	
MIDDLETOWN 6 N LEGATES							0.01			0.08						0.59	0.02			0.07	0.23	1.58	0.16							1.28		4.02	2400 EDT/EST
WILMINGTON, DE NWS NEW CASTLE CO APT										0.08					T	0.62	0.01			0.10	0.12	1.64	0.48					0.03	1.05		4.13 0.0	2400 EST	
NEWARK AG FARM, DE U OF DE DEOS										0.08						0.69				0.12	0.16	1.49	0.64						1.11		4.29	2400 EDT/EST	
TOWNSEND 4 W, DE U of D REC DEOS										0.07						0.54	0.01			0.04	0.31	1.27	0.19						1.09		3.52	2400 EDT/EST	
GEORGETOWN, DE NWS SUSSEX CO APT	0.05									0.02						1.29	0.25			T	0.15	0.07	0.69					0.01	0.51		3.04 -	2400 EST	
GEORGETOWN, DE U of D REC DEOS	0.05							0.01		0.03	0.01					1.37	0.24			0.01	0.14	0.06	0.59						0.54		3.05	2400 EDT/EST	
HARBESON 8 S, DE U of D REC DEOS	0.05								0.01	0.02						2.06	0.28				0.20	0.07	0.41	0.11				0.03	0.11	0.11	3.46	2400 EDT/EST	
REHOBOTH BEACH BWK U of DE DEOS	0.05								0.01	0.04						1.88	0.35				0.17	0.05	0.73					0.06	0.42		3.76	2400 EDT/EST	
FROSTBURG LATTA	T									0.01	0.01 0.4	T T			0.07	0.14	0.55				0.37	0.34	1.10	0.01				T	0.68		3.28 0.4	0700 EDT/EST	
LAVALE MULLINS**										0.03					0.11	0.59				0.43	T	1.32	0.11						0.50		3.09 0.0	2400 EDT/EST	
PASADENA 2N HANSON	0.03	0.01					0.01		0.01	0.10					0.01	0.41	0.03			0.06	0.18	1.42	0.16						0.61		3.04 0.0	2400 EDT/EST	
LOTHIAN JUG BAY	0.10		0.01				0.01		0.01	0.11					0.03	1.05	0.06				0.16	0.53	0.60			0.01			0.65		3.33 0.0	2400 EDT/EST	
BWI NWS ASOS	0.07									0.05					0.01	0.37	T			0.06	0.15	1.17	0.16						0.41		2.45 0.0	2400 EST	
LAUREL 2 E STOUDT										0.07					0.01	0.39	T			0.07	0.20	0.99	0.16						0.45		2.34 0.0	2400 EST	
REISTERSTOWN MULLER											0.09				T	0.97	0.05				0.32	1.33	1.35					0.41	0.42	T	4.94 0.0	2100 EDT/EST	
OWINGS MILLS 2SE SHARROW										0.07					T	0.55	T			0.04	0.28	1.53	0.86					T	0.55		3.88 0.0	2400 EDT/EST	
BALTIMORE 2SE MANFRE																																	2400 EDT/EST
BALT INNER HARBOR MD SCIENCE CENTER										0.05						0.31				0.04	0.16	1.73	0.38						0.42		3.09 -	2400 EST	
MANCHESTER 1SW CLOSE										0.09					T	0.90	T			0.27	0.31	1.40	1.57						0.58	0.02	5.14 0.0	2300 EDT/EST	
WESTMINSTER 4 SSE HARTSOCK										0.11						1.08	0.03			T	0.43	1.45	1.60						0.72		5.42 0.0	1900 EDT/EST	
MILLERS 4NE MILLER										0.11					T	0.75	0.13				0.47	1.24	1.88						0.62	0.03	5.23 0.0	1800 EDT/EST	
BRYANS ROAD 2 ESE BRUMBACK										0.09					0.06	1.10	0.06				0.13	0.50	0.56						0.58		3.08 0.0	2359 EDT/EST	
EMMITSBURG 2 SE GLASS											0.14				T	0.20	0.68				0.38	0.25	2.79	0.04					0.02	0.40	4.90 0.0	0630 EDT/EST	

ACON MD / DE / DC
NOVEMBER 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	TOTAL	OBS TIME
LAUREL JHU / APL GIANNOLA								0.08								0.40				0.08	0.16	0.98	0.31						0.44		2.45 0.0	2400 EDT/EST
NORBECK 1 SE BERGER										0.11					0.02	0.42				0.04	0.31	1.02	0.30						0.52		2.74 0.0	2200 EDT/EST
POTOMAC 4N COHEN										0.13					0.01	0.51	0.03			0.05	0.22	0.95	0.37						0.65		2.92 0.0	2100 EDT/EST
OLNEY 1 S GIANNOLA										0.11					0.01	0.46				0.03	>	1.29	0.34						0.62		2.86 0.0	2400 EDT/EST
CLARKSBURG 2ENE HOLDEN										0.11					0.01	0.83				0.07	0.24	1.13	0.66						0.61	0.01	3.67 0.0	2400 EST
MONTGOMERY VILLAGE ROTH 1SW																																2400 EDT/EST
GLENMONT 1NNE ROSSEN				T						0.09					0.01	0.39	T			0.09	0.17	0.84	0.24						0.52	T	2.35 0.0	2400 EST
BETHESDA SCAFIDE										0.10					0.13	0.27	0.01			0.13	0.11	0.76	0.18						0.37	0.02	2.08 -	2400 EDT/EST
GAITHERSBURG 2WNW SHAW										0.07					0.01	0.49				0.08	0.24	0.99	0.53						0.59		3.00 0.0	2400 EDT/EST
FOREST GLEN TERRY										0.10					0.02	0.38				0.07	0.17	0.73	0.29						0.51		2.27 0.0	2400 EDT/EST
OXON HILL SMITH										0.05					T	0.70	0.05			0.01	0.13	0.44	0.43						0.57		2.38 0.0	2300 EDT/EST
HOLLYWOOD 3 ENE GLEASON	0.04	0.01					0.01	0.01	0.02	0.02						1.09	0.21				0.05	0.35	0.44						0.41		2.66 0.0	2400 EDT/EST
RIDGE ZYLA	0.13			0.02						0.02						1.94	0.35				0.06	0.15	0.80						0.56		4.03 0.0	2400 EDT/EST
SMITHSBURG 1.5 SW HUTTO										0.16	0.01				0.12	0.99				0.34	0.22	1.62	0.94						0.58		4.98 0.0	2400 EDT/EST
HAGERSTOWN 1E KEEFER										0.14					0.10	0.84				0.31	0.18	1.32	0.74						0.50		4.13 0.0	2400 EDT/EST
SMITHSBURG 3 NE VAUGHN										0.08	0.02				0.08	0.84				0.45	0.28	1.64	0.92						0.68		4.99 0.0	2400 EDT/EST
SALISBURY NWS WICOMICO CO APT	0.10			0.01						0.03						0.55	0.28				0.08	0.02	0.64					0.01	0.59		2.31 0.0	2400 EST
WASH NATIONAL NWS ASOS										0.06					T	0.54	0.01			0.02	0.07	0.55	0.28						0.41		1.94 0.0	2400 EST
WASH DULLES NWS ASOS										0.07					0.05	0.34	T			0.01	0.21	0.70	0.30						0.50		2.18 0.0	2400 EST
STERLING 4 N SHAFFER																																2400 EDT/EST
DAVIS 3 SE WV LESHER										0.01	0.06 0.6	0.02 0.3			0.35	0.15	0.78 T	0.14 1.8		0.07	0.64	0.14	1.76 1.2	0.28					0.20 3.2	0.60 7.1	5.20 7.1	0700 EDT/EST