



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

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

## RARE OCTOBER SNOW

October's temperatures and precipitation averaged close to normal. There was no extreme warmth or cold periods. Nor were there any tropical storms. The exceptions to the "calm" occurred around the 2nd, 13th, 19th, and 29th. Over an inch of precipitation fell at some locations. Thunderstorms occurred on the 13th and 19th. The northeaster of the 29th brought falling temperatures, rain, sleet and snow. The rain mixed with sleet and wet snow generally along and west of the I-95 corridor. The further west and north the heavier the wet snow was.

The month began unseasonably cool and wet. Maximum temperatures on the 2nd ranged from the mid 40's to lower 50's. **Greg Latta** of **Frostburg** reported 2.01" of rain on the 2nd & 3rd. **Dave Leshner** of **Davis 3 SE WV** reported 8.3" of snow. No snow was reported in Maryland by any ACON observers.

Pleasant, sunny, dry, warm days and cool nights with light winds occurred from the 5th to the 9th. Rain fell from the 12th to the 14th. There were some thunderstorms reported on the 13th. The heaviest rains fell in metropolitan Washington. **Richard Holden** of **Clarksburg 2 ENE** reported 2.49", **Rob Cohen** of **Potomac** 2.37", **Joe Terry** of **Forest Glen** 2.06" and **Stan Rossen** of **Glenmont 1 NNE** 2.03". The 14th to the 16th were sunny and windy. The 15th was the windiest day with gusts exceeding 40 MPH at windier locations.

Rain along with some thunderstorms occurred on the 19th. Rainfall totals generally ranged in the half to three quarters of an inch range. The heaviest fell in central Maryland where **Jim Vaughn** of **Smithsburg 3 NE** reported 1.39" and **Max Hutto** of **Smithsburg 1.5 SW** 1.38".

A early season northeaster brought a mixture of rain, sleet, and snow to the region. Over 5 inches of snow were reported by the following ACON observers: **Greg Latta** of **Frostburg** 9.8", **Dave Leshner** of **Davis 3 SE WV** 8.8", **Herb Close** of **Manchester 1 SW** 7.8", **Nate Mullins** of **LaVale** 7.0", **Jim Vaughn** of **Smithsburg 3 NE** 7.3", **Max Hutto** of **Smithsburg 1.5 SW** 6.3", and **Bobby**

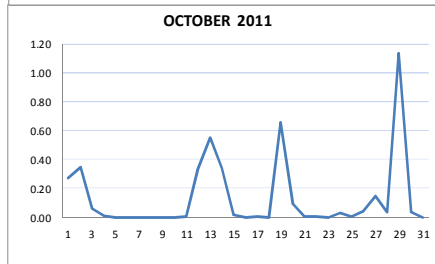
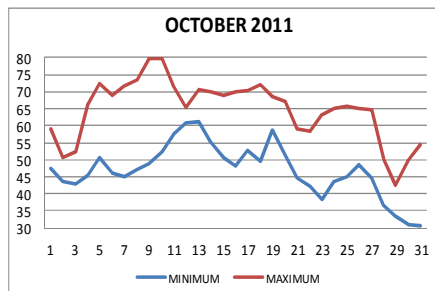
**Miller** of **Millers 4 NE** 6.1". **Herb Close** of **Manchester 1 SW** is writing a report on the storm which will be completed shortly.

The first freezing temperatures of the season occurred on the evening of the 29th and/or the 30th at a majority of ACON stations.

### SUMMARY OF SNOW MEASUREMENT GUIDELINES

Many ACON observers do not have sites that match standard guidelines. Below are guidelines to use to obtain an accurate measurement. Always place the white snowboard on the ground or top of the snow if there is snow on the ground. Do not take measurements more frequently than at 6 hour intervals. Always clean the snowboard after each measurement. The bottom line is—Do the best you can and avoid procedures which can cause inaccurate measurements.

1. Avoid wind blown locations.
2. Use a white snowboard. Measuring over grass can inflate the total or decrease the total if the ground is warm.



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

### EXTREMES REPORTED BY

#### ACON OBSERVERS

##### MAXIMUM TEMPERATURE

Baltimore 2 SE	87
Forest Glen	85

##### MINIMUM TEMPERATURE

Smithsburg 1.5 SW	22
Hagerstown 1 E	25
Davis 3 SE WV	25

##### WARMEST AVG. TEMP.

Baltimore 2 SE	61.0
Hollywood 3 ENE	59.7

##### COLDEST AVG. TEMP.

Davis 3 SE WV	45.7
Frostburg	49.3
LaVale	51.9

##### MAXIMUM PRECIPITATION

Davis 3 SE WV	6.83
Clarksburg 2 ENE	6.44
Frostburg	6.12

##### MINIMUM PRECIPITATION

Hollywood 3 ENE	2.06
Harbeson 8 S DEOS DE	2.24

##### MAXIMUM SNOWFALL

Davis 3 SE WV	17.1
Frostburg	9.1

3. Install multiple snowboards and take an average if possible.
4. Locate the snowboard in an undisturbed area.
5. Minimum distance between the snowboard and structures, trees, etc. should be twice their height.
6. Avoid measuring snow on attached decks. Totals can be inflated as a result of air movements around the building.
7. Measurements can be made:
  - A.) Once a day at obs time.
  - B.) If more than one measurement is made between obs there must be a minimum of 6 hours between each measurement and the obs times. Sum the amounts to obtain the daily total.

8. Link to the NWS Guidelines: [www.nws.noaa.gov/os/coop/snowguid.htm](http://www.nws.noaa.gov/os/coop/snowguid.htm)

Thanks to **Marty Brumback** of **Bryans Road 2 ESE** who reviewed the guideline summary.

# OBSERVER COMMENTS FOR OCTOBER 2011

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

**5th** - Crystal clear deep blue sky, nice breeze, warm.

**29th** - Rain with some PM sleet & wet snow.

**31st** - Heavy frost, morning fog and haze,

## **Nate Mullins of LaVale**

Below normal temperatures for the first month since January.

**1st & 2nd** - Cold steady rain. Storm total 1.33". Record low maximum temperatures on the 1st (51°) & 2nd (44°).

**17th** - Very windy, brief shower.

**29th** - 7" of snow broke the old daily record of 1.0" set in 1962. It was the October's heaviest daily snowfall and set a record snowfall for the entire month of October.

**29th** - 35° maximum temperature broke the old record minimum maximum for October of 37° set 10/27/2001.

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

Near normal temps and precipitation including a rare October snow. The month began and ended with very unusually chilly maximum temperatures which was accompanied by light to moderate rain, especially on the 2nd, 3rd, & 29th.

## **Ray Muller of Reisterstown**

**13th** - Thunderstorm with heavy rain.

**29th** - Temperatures falling into the 30's with snow.

## **Marty Sharrow of Owings Mills**

**23rd** - First frost, light, of the season.

**29th** - Alternating periods of wintry mix, rain and cold.

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

**14th** - Mild, rainy, t'stms from mid morning until about noon.

**29th** - Cold, rain until late PM.

## **Herb Close of Manchester 1 SW**

**29th** - Record October snow of 7.8". The only other time it snowed in October was in 2009.

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

**13th** - Heavy storms at night - Tornado watch.

**29th** - Heavy snow, sleet, and rain. Not as much snow as predicted but still a historic storm.

**30th** - Black ice everywhere in the morning.

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

**14th** - Heavy mid day rain. Winds gusted to 46 from WSW.

**24th** - Heathkit Weather Computer 30 years old.

**29th** - Record October snow. Some sleet.

## **Marty Brumback of Bryans Road 2 ESE**

**29th** - Rain/sleet mix ~1:30PM - 2:15PM. Rain/snow mix ~ 4:48PM - 5:30 PM. Rain ended ~ 8:15 PM

## **Eric Glass of Emmitsburg 2 SE**

**23rd** - Low fog.

**29th** - Rain, snow, windy, colder.

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

Maximum barometric pressure: 30.52 on 8th

Minimum barometric pressure: 29.28 on 19th & 20th

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

**13th** - Three thunderstorms: 5 AM (close lightning), 6 PM & 9 PM (distant).

**28th** - Frost on windshield.

**29th** - Rain/sleet/snow mix AM; rain, then snow 1 - 5 PM.

## **Rich Giannola of Olney 1 S**

**28th & 29th** - Rain began the evening of the 28th and

## **Rich Giannola of Olney 1 S (Cont.)**

changed to snow ~ 6 AM on the 29th, then changing to a rain/snow mix in the morning, sometimes alternating between precipitation types. Rain changed to sleet at 12:30 PM. Snow began at 1:30 PM, continuing throughout afternoon into early evening before ending. This was the only measurable snow since records began in 1986.

## **Richard Holden of Clarksburg 2 ENE**

**29th** - Moderate rain, light sleet, heavy snow. AM min 32°, Afternoon max 33°. 4" of snow was the second biggest October snowfall behind the 5 inches of snow that was recorded on October 10, 1979.

## **Stan Rossen of Glenmont 1 NNE**

**29th** - Max of 40° tied 10/30/02 for the lowest max recorded here in 35° October's of record. Afternoon rain/sleet/snow mix. The snow melted on contact with all surfaces except the car. After dusk the precipitation changed back to light rain and that is how it ended.

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

Daily record maximum precipitation records set on the 13th (1.32") & 29th (1.10"). First freezing temp on the 30th was 10 days later than normal.

**29th** - Second measurable October snow in 33 years. Max of 40° was the second coldest max temp for October in 33 years.

## **Joe Terry of Forest Glen**

**13th** - Mild and damp. T'stms during the early evening with brief but very heavy rain and quite a bit of lightning.

**19th** - Dew point reached to the mid to upper 60's.

**29th** - First snow and ice pellets ever observed at this station in its 17 year history. Rain gradually changed to sleet then light snow during the early afternoon.

## **Brian Smith of Oxon Hill**

**29th** - -RA 0000-1300; -RASN 1300-1700; -SN 1630-1700; -RAPL 1700-2000.

**30th & 31st** - Widespread heavy frost.

## **John Zyla of Ridge**

**2nd** - Cloudy, cold, breezy, occasional rain. First fire of the season today.

**29th** - Heavy rain until evening then clearing.

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

**9th** - Sunny, warmer, nice day.

**29th** - Overnight rain changed to snow by mid-AM.

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

**5th—9th** - Bright 100% sunshine each day.

**29th** - 3.7" set a new October record for the most snow from a storm and for the entire month. The previous record was 2.8" on 10/30/1925. On 10/19/1940 1.3" fell and 0.1" fell on 10/10/1979.

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

**29th** - Second coldest maximum temperature of 35° for the month. Record coldest maximum 35 set 10/30/2002. 7.8" of snow broke the old October daily record of 1.1 set 10/10/1979 and the month record of 1.2" set in 1979.

## **Dave Leshner of Davis 3 SE**

**3rd** - Snow depth at obs time (7 AM) 5".

**30th** - Snow depth at obs time (7 AM) 6".

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  
OCTOBER 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>																									
Gallaher, Gary	Bear 2 SW	65.2	45.7	55.5	83	9	27	31	0	0	2	39	SSW	15	3.51	1.43	29	52.72	11	1	0.3	0.3	29	0.3	2400
Legates, David	Middletown 6 N	65.6	46.5	56.1	84	9	29	31	0	0	2	25		29	3.61	1.48	29	48.09	15	1					2400
NWS Wilmington	New Castle Co. Apt.	65.4	46.8	56.1	85	9	28	31	0	0	1	39	WSW	15	3.05	1.26	29	48.01	10	1	0.3	0.3	29	0.3	2400
UofDE AG FARM DEOS***	Newark	64.9	46.2	55.6	84	9	28	31	0	0	2	30		15	3.43	1.37	29	41.43	12	1					2400
U of D REC DEOS***	Townsend 4 W	64.5	45.7	55.1	82	9	28	31	0	0	2	27		29	3.60	1.67	29	53.12	12	1					2400
<i>Sussex, Delaware</i>																									
NWS Georgetown	Sussex Co. Airport	68.4	48.0	58.2	83	9	30	31	0	0	2	38	W	20	2.24	1.06	29	29.98	8	1					2400
U of D REC DEOS***	Georgetown 5 SW	66.6	45.8	56.2	81	9+	28	31	0	0	2	27		27	2.29	1.11	29	34.06	12	1					2400
U of D REC DEOS***	Harbeson 8 S	67.0	45.5	56.3	82	9	27	31	0	0	2	28		29	2.24	1.15	29	32.14	10	1					2400
U of D DEOS***	Rehoboth Beach Bwk	65.7	51.7	58.7	83	9	34	30	0	0	0	39		29	1.50	1.45	29	29.26	4	1					2400
<i>Allegany, Maryland</i>																									
Latta, Greg	Frostburg	57.4	41.1	49.3	77	10+	26	30+	0	0	4				6.12	1.62	2	49.23	18	1	9.1	6.6	29	9.1	0700
Mullins, Nate**	LaVale	59.0	44.7	51.9	72	9	30	29+	0	0	4				4.57	1.02	12	45.05	15	1	7.0	7.0	29	7.0	2400
<i>Anne Arundel, Maryland</i>																									
Hanson, Dan	Pasadena 2 N	65.4	46.2	55.8	81	9+	29	31	0	0	2	34	ENE	29	4.54	1.55	29	50.95	18	1	0.0	0.0		0.0	2400
Jug Bay Wetlands	Lothian	67.2	45.6	56.4	83	10	27	31	0	0	2				3.34	1.76	29	49.19	17	1					2400
NWS Baltimore	BWI Airport	66.3	47.0	56.7	85	10	27	31	0	0	2	37	W	15	3.31	1.09	29	49.57	11	1	T	T	29	T	2400
Stoudt, Jeff	Laurel 2 E	64.3	48.8	56.6	79	10	31	31	0	0	1				3.84	1.08	29	49.06	11	1	0.2	0.2	29	0.2	2400
<i>Baltimore, Maryland</i>																									
Muller, Ray	Reisterstown	65.1	47.9	56.5	82	9	30	30	0	0	3	35	WNW	20	4.54	1.04	29	49.19	12	1	3.6	3.6	29	3.6	2200
Sharrow, Marty	Owings Mills 2 SE	62.5	45.1	53.8	79	9	28	31	0	0	3				3.81	1.13	29	48.72	10	1	1.1	1.1	29	1.1	2400
<i>Baltimore City, Maryland</i>																									
Manfre, Joe	Baltimore 2 SE	68.7	53.2	61.0	87	10	37	30	0	0	0				2.91	1.00	29	47.87	11	1	0.0	0.0		0.0	2400
Maryland Science Ctr	Baltimore Inner Harbor	68.4	53.5	61.0	86	10	37	30	0	0	0				2.67	0.90	29	46.58	11	0					2400
<i>Carroll, Maryland</i>																									
Close Jr, Herb	Manchester 1 SW	62.3	45.7	54.0	81	9	26	30	0	0	4				4.79	1.20	29	53.09	12	1	7.8	7.8	29	7.8	2300
Hartsock, Ralph	Westminster 4 SSE	63.0	46.3	54.7	81	10	29	30+	0	0	4	37	WNW	15	4.51	1.01	29	45.90	12	1	2.2	2.2	29	2.2	1900
Miller, Bobby	Millers 4 NE	63.2	44.6	53.9	81	9	27	30+	0	0	3	46	WSW	14+	4.66	1.22	29	54.53	14	2	6.1	5.9	29	6.1	1800
<i>Charles, Maryland</i>																									
Brumback, Marty	Bryans Road 2 ESE	67.0	48.0	57.5	83	10	31	31	0	0	2	30	SW	15+	2.76	1.27	29	32.65	11	1	T	T	29	T	2355
<i>Frederick, Maryland</i>																									
Glass, Eric	Emmitsburg 2 SE	62.0	44.1	53.1	77	11	27	31	0	0	2				5.04	1.15	20	53.33	11	2	3.0	3.0	30	3.0	0700

**ACON MD / DE / DC  
OCTOBER 2011 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		SEA- SON
	<u>Howard, Maryland</u>																								
Giannola, Rich	Laurel JHU / APL <u>Montgomery, Maryland</u>	63.8	46.3	55.1	82	10	28	31	0	0	2	31	NNW	27	3.87	0.92	29	42.92	11	0	0.1	0.1	29	0.1	2400
Berger, Ron	Norbeck 1 SE	63.5	46.4	55.0	80	10	29	31	0	0	2				4.92	1.09	29	41.66	14	1	0.1	0.1	29	0.1	2200
Cohen, Rob	Potomac 4 N	64.1	46.5	55.3	80	10	30	31	0	0	2				5.72	1.63	13	45.82	11	2	0.1	0.1	29	0.1	2100
Giannola, Rich	Olney 1 S	64.3	46.6	55.5	81	10	30	30+	0	0	2				4.93	1.12	13	39.41	11	2	0.6	0.6	29	0.6	2400
Holden, Richard	Clarksburg 2 ENE	62.6	46.8	54.7	77	9+	30	29+	0	0	2	36	NNW	27	6.44	1.65	13	53.52	13	2	3.8	3.8	29	3.8	2400
Roth, David	Montgomery Village 1SW																	<u>12.02</u>							2400
Rossen, Stan	Glenmont 1 NNE	65.8	46.2	56.0	83	10	29	31	0	0	2	13		16	4.97	1.33	13	41.80	12	1	T	T	29	T	2400
Scafide, Tony	Bethesda	63.0	47.0	55.0	79	10	31	31	0	0	2	13		27	4.26	1.15	13	<u>36.14</u>	13	2					2400
Shaw, Kevin	Gaithersburg 2 WNW	63.3	46.3	54.8	79	10	30	31	0	0	2	20	NW	15	5.42	1.32	13	47.50	13	2	0.8	0.8	29	0.8	2400
Terry, Joe	Forest Glen	66.9	46.3	56.6	85	10	30	31	0	0	2	26	W	15	5.13	1.32	13	43.55	12	2	0.2	0.2	29	0.2	2400
	<u>Prince Georges, Maryland</u>																								
Smith, Brian	Oxon Hill	65.8	48.5	57.2	81	10	32	31	0	0	1				3.81	1.36	29	49.07	10	1	0.1	0.1	29	0.1	2300
	<u>St. Marys, Maryland</u>																								
Gleason, Wes	Hollywood 3 ENE	67.2	52.1	59.7	80	9	36	30	0	0	0				2.06	1.45	29	46.05	10	1	0.0	0.0		0.0	2400
Zyla, John	Ridge	67.1	52.1	59.6	80	10	34	30	0	0	0	32	SW	20	3.44	1.49	29	45.49	9	1	0.0	0.0		0.0	2400
	<u>Washington, Maryland</u>																								
Hutto, Max	Smithsburg 1.5 SW	62.9	43.1	53.0	77	9	22	30	0	0	4	29		15	5.72	1.28	29	50.14	13	2	6.3	6.3	29	6.3	2400
Keefer, Greg	Hagerstown 1 E	62.5	43.8	53.2	77	9	25	30	0	0	3	45	W	15	4.52	1.12	29	45.35	13	1	3.7	3.7	29	3.7	2400
Vaughn, Jim	Smithsburg 3 NE	62.1	44.7	53.4	76	9+	26	30	0	0	3	40	W	15+	4.83	1.08	19	45.12	14	1	7.3	7.3	29	7.3	2400
	<u>Wicomico, Maryland</u>																								
NWS Salisbury	Wicomico Co. Apt	69.8	48.0	58.9	85	10	29	31	0	0	2	39	NW	27	1.99	0.92	29	35.15	10	0					2400
	<u>Arlington, Virginia</u>																								
NWS Washington Nationa	National Airport	66.5	50.2	58.4	83	10	34	29	0	0	0	39	NNW	27	3.91	1.18	29	40.05	11	1	T	T	29	T	2400
	<u>Loudon, Virginia</u>																								
NWS Washington Dulles	Dulles Airport	64.9	45.2	55.1	81	10	28	31	0	0	2	36	NW	27	6.27	1.92	13	39.56	12	2	0.6	0.6	29	0.6	2400
Shaffer, Lance	Sterling 4 N																	<u>17.75</u>							2400
	<u>Tucker, West Virginia</u>																								
Leshner, Dave	Davis 3 SE WV	53.4	38.0	45.7	74	9	25	29	0	1	10				6.83	1.08	27	68.78	17	2	17.1	5.6	29	17.1	0700
<b>SECTION AVERAGE*</b>		<b>64.8</b>	<b>46.9</b>	<b>55.8</b>											<b>4.09</b>			<b>46.04</b>			<b>2.1</b>			<b>2.1</b>	

**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 LAVALLE 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

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**  
**OCTOBER 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 GALLAHER	64	52	54	66	73	69	69	74	83	79	73	63	69	74	69	69	70	71	69	70	59	60	62	65	65	66	63	51	45	50	55	65.2	2400
MIDDLETOWN 6 N, DE LEGATES	64	53	53	66	73	70	69	75	84	80	73	63	69	75	70	69	71	72	69	70	60	60	63	66	66	66	64	50	45	51	55	65.6	2400
WILMINGTON, DE NWS NEW CASTLE CO APT	65	52	54	66	73	69	70	75	85	80	73	64	70	74	69	69	70	71	69	68	60	60	63	65	65	65	63	51	44	50	54	65.4	2400
NEWARK AG FARM, DE U OF DE DEOS	63	52	53	66	72	69	70	75	84	80	73	63	69	73	69	69	70	72	69	70	59	59	63	65	64	64	63	49	44	49	54	64.9	2400
TOWNSEND 4 W, DE U of D REC DEOS	51	52	53	64	71	66	68	74	82	78	73	62	68	73	68	69	70	72	70	71	60	59	62	66	64	66	63	48	43	50	55	64.5	2400
GEORGETOWN, DE NWS SUSSEX CO APT	66	53	56	66	74	70	71	74	83	82	75	70	80	76	71	72	72	75	74	73	65	62	65	68	66	73	73	50	51	54	59	68.4	2400
GEORGETOWN, DE U of D REC DEOS	63	51	55	65	72	69	69	74	81	81	73	69	78	73	69	70	72	74	71	70	62	60	64	67	64	72	72	48	49	51	57	66.6	2400
HARBESON 8 S, DE U of D REC DEOS	65	52	57	65	72	69	68	71	82	79	72	68	78	75	71	72	72	71	73	72	63	62	63	65	66	73	72	48	51	52	57	67.0	2400
REHOBOTH BEACH BWK U of D DEOS	67	54	58	66	74	65	65	67	83	74	68	67	70	74	71	72	69	67	71	71	64	59	59	62	66	71	72	51	54	51	57	65.7	2400
FROSTBURG LATTA	58	42	39	47	53	66	66	70	73	77	77	64	54	59	57	58	67	62	69	56	45	42	56	60	62	62	59	55	41	35	47	57.4	0700
LAVALE MULLINS**	40	40	41	45	51	49	50	48	49	49	50	55	55	50	49	53	49	48	54	45	45	45	36	45	44	40	40	32	30	30	30	44.7	EDT
PASADENA 2 N HANSON	60	50	54	68	75	69	71	73	81	81	71	64	70	69	70	71	72	73	70	69	61	60	64	66	66	64	63	50	42	53	55	65.4	2400
LOTHIAN JUG BAY	48	45	41	43	49	47	43	45	47	51	58	61	63	54	50	48	49	48	60	52	42	38	37	42	44	51	44	40	35	31	29	46.2	EDT
BALTIMORE NWS BWI APT	59	54	57	70	75	71	72	74	82	83	71	67	76	71	71	72	73	74	70	70	63	62	66	69	67	74	66	50	42	55	57	67.2	2400
BALTIMORE NWS BWI APT	49	43	41	45	50	44	42	44	45	48	56	63	65	53	49	44	51	49	60	52	43	39	35	41	43	50	47	34	34	29	27	45.6	EDT
BALTIMORE NWS BWI APT	59	51	56	71	76	72	72	75	83	85	72	65	71	70	71	71	72	74	71	69	61	60	65	67	68	63	64	50	42	54	56	66.3	2400
LAUREL 2 E STOUDT	49	44	43	45	50	45	45	46	49	52	59	62	63	56	51	49	50	48	60	51	45	42	38	42	44	53	43	38	33	31	30	47.0	EST
LAUREL 2 E STOUDT	59	49	52	66	72	69	73	74	78	79	70	64	70	69	71	71	72	73	69	67	58	57	64	65	65	60	61	49	42	50	54	64.3	2400
REISTERSTOWN MULLER	46	44	46	48	53	48	48	50	52	56	61	62	62	58	52	50	58	53	59	51	47	46	41	45	47	52	43	38	34	33	31	48.8	EST
REISTERSTOWN MULLER	73	61	49	65	74	72	72	74	82	78	71	66	68	67	68	69	70	73	65	68	59	56	60	66	67	63	61	50	46	49	56	65.1	2200
OWINGS MILLS 2SE SHARROW	58	44	40	46	50	46	48	48	54	59	60	56	60	60	50	50	54	50	57	53	43	43	38	48	46	51	46	35	32	30	31	47.9	EDT
OWINGS MILLS 2SE SHARROW	56	50	50	64	72	68	72	73	79	77	70	64	67	68	66	69	69	70	65	65	55	55	64	62	64	59	61	47	39	47	51	62.5	2400
BALTIMORE 2SE MANFRE	47	41	40	43	47	43	45	45	48	54	57	58	58	55	50	44	54	47	56	50	44	39	35	42	42	48	45	33	31	30	28	45.1	EDT
BALTIMORE 2SE MANFRE	63	53	59	73	78	74	75	77	86	87	76	67	74	73	73	74	75	76	74	72	63	62	67	68	69	66	68	52	44	54	58	68.7	2400
BALT INNER HARBOR MD SCIENCE CENTER	53	48	47	50	55	54	56	58	63	68	65	65	65	59	57	54	60	58	63	56	51	49	48	53	52	55	47	43	39	37	40	53.2	EDT
BALT INNER HARBOR MD SCIENCE CENTER	64	53	58	71	78	72	74	76	85	86	75	68	74	73	74	74	75	75	74	71	63	61	67	68	69	67	67	53	44	54	58	68.4	2400
MANCHESTER 1SW CLOSE	52	45	49	65	71	68	73	75	81	78	70	61	67	67	65	69	67	71	64	66	56	55	64	60	64	63	62	50	38	44	50	62.3	2300
MANCHESTER 1SW CLOSE	44	39	40	43	47	45	49	49	54	60	63	57	57	51	48	48	52	50	56	49	42	39	40	44	40	51	39	32	31	26	32	45.7	EDT
WESTMINSTER 4 SSE HARTSOCK	60	51	54	67	69	64	69	71	76	81	73	64	68	68	64	67	66	71	65	61	59	61	62	65	62	63	66	51	35	46	53	63.0	1900
WESTMINSTER 4 SSE HARTSOCK	52	43	43	45	48	43	43	45	47	53	55	60	60	63	50	47	55	45	58	54	44	42	36	44	44	46	49	32	31	29	29	46.3	EDT
MILLERS 4NE MILLER	64	48	49	66	71	68	73	75	81	78	72	66	64	67	66	68	67	72	65	67	55	55	63	62	64	64	61	49	43	47	50	63.2	1800
MILLERS 4NE MILLER	48	41	42	42	50	42	43	45	47	52	53	56	57	58	50	44	52	44	55	50	41	39	34	44	41	48	46	33	32	27	27	44.6	EDT
BRYANS ROAD 2 ESE BRUMBACK	60	52	56	70	75	70	74	74	79	83	71	67	78	71	70	72	72	75	70	68	63	62	65	69	68	73	68	50	42	54	57	67.0	2355
BRYANS ROAD 2 ESE BRUMBACK	48	45	47	48	51	50	46	48	48	51	58	64	65	53	49	45	55	53	61	51	43	42	39	44	45	55	47	39	34	32	31	48.0	EDT
EMMITSBURG 2 SE GLASS	69	51	48	50	65	71	65	70	71	76	77	70	62	67	66	66	68	68	71	63	58	53	56	61	60	64	64	61	49	34	48	62.0	0700
EMMITSBURG 2 SE GLASS	51	42	43	44	45	43	41	41	43	45	47	53	57	57	51	49	49	46	46	53	47	46	34	34	43	45	47	35	33	29	27	44.1	EDT

**ACON MD / DE / DC  
OCTOBER 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	57	47	51	65	71	69	72	73	80	82	70	63	68	68	70	71	73	72	69	67	57	56	63	66	64	61	63	48	39	49	54	63.8	2400	
GIANNOLA	45	41	42	45	52	45	43	46	48	54	59	59	60	54	51	49	53	48	58	50	45	41	37	42	48	51	40	35	32	32	28	46.3	EDT	
NORBECK 1 SE	59	49	49	66	72	68	72	72	78	80	69	66	70	68	69	69	70	71	68	67	57	56	63	65	64	60	61	48	40	50	54	63.5	2200	
BERGER	47	42	42	46	50	46	43	46	47	52	58	62	62	56	50	45	53	48	59	53	44	42	36	43	44	48	47	34	33	31	29	46.4	EDT	
POTOMAC 4N	60	47	49	66	72	69	74	73	77	80	69	66	70	68	71	72	71	71	69	65	57	57	64	67	66	59	61	51	42	49	56	64.1	2100	
COHEN	46	42	43	47	48	46	44	48	48	50	57	62	62	54	49	46	57	48	60	51	43	45	37	43	42	45	48	36	33	31	30	46.5	EDT	
OLNEY 1 S	>	57	49	67	72	68	72	74	79	81	68	63	69	68	70	70	72	73	68	67	58	55	64	64	65	58	62	49	40	52	55	64.3	2400	
GIANNOLA	>	41	42	45	49	45	45	47	49	53	59	60	61	54	50	48	55	50	59	52	43	42	38	46	43	49	46	34	33	30	30	46.6	EDT	
CLARKSBURG 2ENE	54	49	49	66	72	68	73	73	77	77	69	62	68	67	67	69	69	71	65	64	57	56	63	63	64	60	61	49	38	48	54	62.6	2400	
HOLDEN	45	40	40	44	51	45	50	52	55	53	59	60	60	51	50	46	54	53	57	46	44	45	43	46	47	49	40	33	30	30	46.8	EST		
MONTGOMERY VILLAGE																																	2400	
ROTH 1SW																																	EDT	
GLENMONT 1NNE	58	50	51	69	74	73	75	77	82	83	69	64	70	70	73	73	75	69	66	59	58	66	68	68	61	63	52	40	53	57	65.8	2400		
ROSSEN	47	43	43	46	51	45	44	47	48	51	58	62	62	54	50	46	50	48	60	50	45	41	37	43	44	47	43	35	33	31	29	46.2	EST	
BETHESDA	59	49	50	66	72	65	70	71	75	79	70	65	71	66	68	67	68	71	68	66	58	57	62	64	64	61	62	49	39	50	54	63.0	2400	
SCAFIDE	46	42	43	47	50	47	46	49	49	52	59	62	62	54	50	46	53	51	59	50	43	44	39	46	44	49	44	36	33	32	31	47.0	EDT	
GAITHERSBURG 2WNW	57	48	50	67	73	68	73	72	76	79	70	65	70	67	69	69	70	72	66	66	57	58	63	63	65	58	61	50	40	49	53	63.3	2400	
SHAW	46	42	43	46	49	45	44	47	48	51	56	62	62	55	50	46	51	48	59	51	43	42	37	45	43	46	44	36	33	32	30	46.3	EDT	
FOREST GLEN	59	52	52	70	76	72	76	77	83	85	75	66	72	71	73	73	74	76	69	67	62	59	66	69	69	63	63	51	40	55	58	66.9	2400	
TERRY	47	43	42	46	50	45	45	47	48	51	58	62	62	54	49	45	51	50	59	50	43	42	37	45	43	48	43	34	33	32	30	46.3	EDT	
OXON HILL	60	51	53	68	74	71	73	75	79	81	70	65	77	71	70	71	71	72	69	67	61	60	64	68	67	68	65	50	42	52	56	65.8	2300	
SMITH	47	44	49	49	51	49	47	49	49	52	59	63	64	58	49	48	54	52	62	52	45	42	40	46	45	51	50	39	33	34	32	48.5	EDT	
HOLLYWOOD 3 ENE	63	55	57	69	74	70	73	71	80	79	70	71	75	71	70	71	69	73	72	70	63	61	63	67	67	74	73	49	47	56	60	67.2	2400	
GLEASON	51	46	48	52	57	53	50	54	52	57	62	66	66	59	55	51	57	57	62	55	50	48	45	49	51	52	48	44	38	36	45	52.1	EDT	
RIDGE	61	53	57	69	73	70	71	71	78	80	69	72	76	73	72	73	69	72	71	69	64	61	64	67	68	75	76	52	47	54	56	67.1	2400	
ZYLA	50	45	45	49	55	54	51	55	54	58	63	66	66	59	56	51	58	60	61	54	50	48	47	51	50	56	52	43	36	34	39	52.1	EDT	
SMITHSBURG 1.5 SW	56	47	52	64	72	67	72	74	77	76	71	62	67	67	66	70	69	73	67	62	53	57	62	62	66	65	60	57	38	47	52	62.9	2400	
HUTTO	46	41	43	47	46	39	40	43	43	46	48	57	56	51	49	49	47	42	59	49	47	39	33	43	42	43	41	31	29	22	26	43.1	EDT	
HAGERSTOWN 1E	56	47	51	65	73	68	74	75	77	76	70	64	66	66	66	69	69	71	65	61	52	57	62	62	66	65	60	48	38	48	52	62.5	2400	
KEEFER	45	41	42	44	46	42	41	45	44	47	49	56	56	51	48	46	53	44	55	49	48	40	34	44	45	45	41	33	31	25	27	43.8	EDT	
SMITHSBURG 3 NE	56	46	49	63	70	67	73	74	76	76	69	64	70	68	63	69	69	71	65	64	51	57	60	61	64	64	63	48	38	48	50	62.1	2400	
VAUGHN	44	38	40	46	51	42	46	48	48	49	52	54	56	48	47	48	51	49	56	44	43	42	39	49	46	54	37	33	27	26	31	44.7	EDT	
SALISBURY	65	55	61	68	75	72	74	76	83	85	73	75	83	75	72	72	73	79	75	72	66	64	67	69	68	74	75	50	55	55	59	69.8	2400	
NWS WICOMICO CO APT	50	46	45	46	54	46	42	45	47	50	58	67	66	56	48	43	53	55	65	53	49	44	37	40	47	49	47	42	38	31	29	48.0	EST	
WASH NATIONAL	61	52	53	70	74	69	75	75	78	83	71	66	77	73	71	71	69	74	70	68	62	62	64	67	68	68	66	52	42	55	56	66.5	2400	
NWS ASOS	49	45	46	51	53	51	51	53	53	56	62	64	64	56	50	50	57	54	61	52	47	47	43	49	49	52	45	41	34	35	36	50.2	EST	
WASH DULLES	57	50	51	68	74	70	74	74	80	81	70	65	73	70	71	71	71	73	66	65	59	59	65	67	68	61	64	51	39	51	55	64.9	2400	
NWS ASOS	46	44	44	44	52	46	42	45	45	49	55	62	61	55	47	44	47	48	60	45	42	39	35	42	44	49	42	36	33	31	28	45.2	EST	
STERLING 4 N																																	2400	
SHAFFER																																	EDT	
DAVIS 3 SE WV	55	35	33	41	46	61	67	70	74	73	69	63	55	62	51	52	63	57	68	55	37	36	51	54	57	57	55	50	33	32	43	53.4	0700	
LESHER	32	31	31	31	41	43	43	43	47	47	49	49	50	50	39	40	40	40	44	35	32	33	30	34	36	36	48	26	25	26	28	38.0	EDT	

**ACON MD / DE / DC**  
**OCTOBER 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	0.04	0.51	0.01									0.39	0.05	0.14					0.57	0.01				0.11			0.25		1.43			3.51	2400	
MIDDLETOWN 6 N, DE LEGATES	0.01	0.50	0.02	0.01						0.01		0.52	0.07	0.06					0.59					0.04	0.02		0.23		1.48	0.04	0.01	3.61	2400	
WILMINGTON, DE NWS NEW CASTLE CO APT	0.01	0.53	0.01									0.29	0.03	0.02					0.60					0.15			0.15	T	1.26			3.05	2400	
NEWARK AG FARM, DE U OF DE DEOS		0.47	0.01									0.40	0.07	0.26					0.63	0.01				0.05	0.01		0.14		1.37		0.01	3.43	2400	
TOWNSEND 4 W, DE U of D REC DEOS	0.04	0.41	0.09	0.01								0.35	0.03	0.18					0.55					0.01	0.01		0.25		1.67			3.60	2400	
GEORGETOWN, DE NWS SUSSEX CO APT	0.03	T	0.11								T	0.11	T	0.10					0.74	T				T			0.04	0.05	1.06			2.24	2400	
GEORGETOWN, DE U of D REC DEOS	0.02		0.01									0.06	0.01	0.13	0.01				0.82	0.03					0.01		0.01	0.07	1.11			2.29	2400	
HARBESON 8 S, DE U of D REC DEOS	0.02		0.03									0.09	0.01	0.04					0.81							0.01	0.02	0.06	1.15			2.24	2400	
REHOBOTH BEACH BWK U of DE DEOS	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	1.50	2400
TIPPING BUCKET RAIN GAUGE CLOGGED FROM -9/26 TO 10/20																																		
FROSTBURG LATTA	0.04	1.62	0.39	0.17	0.01							0.35	0.64	0.39	0.28		0.14			0.56	0.09	0.04			0.06		0.38	0.04	0.54	0.38		6.12	0700	
LAVALLE MULLINS**	0.85	0.32	0.14	0.02							0.01	1.02	0.48	0.31			0.07		0.21	0.10	0.01			T		0.18	0.03	T	0.82		T	4.57	2400	
PASADENA 2N HANSON	0.32	0.44	0.03		0.01				0.01			0.44	0.27	0.71					0.44	0.05	0.01	0.01		0.01		0.07	0.12	0.04	1.55	0.01		4.54	2400	
LOTHIAN JUG BAY	0.02	0.23	0.01	0.01	0.02		0.01		0.01			0.39	0.07	0.28					0.28					0.10	0.01		0.09	0.04	1.76		0.01	3.34	2400	
BWI NWS ASOS	0.21	0.12	0.02								T	0.40	0.27	0.18					0.76					T		0.06	0.15	0.05	1.09			3.31	2400	
LAUREL 2 E STOUDT	0.45	0.16	0.03								T	0.52	0.30	0.26					0.77					T		0.07	0.15	0.05	1.08			3.84	2400	
REISTERSTOWN MULLER	0.30	0.15	0.04									0.31	0.85	0.72					0.68	0.13				T		0.04	0.17	0.11	1.04	T		4.54	2200	
OWINGS MILLS 2SE SHARROW	0.07	0.07	0.07									0.27	0.57	0.62					0.82					T		0.04	0.15	T	1.13			3.81	2400	
BALTIMORE 2SE MANFRE	0.03	0.11	0.01									0.34	0.17	0.33					0.62					T		0.06	0.20	0.04	1.00			2.91	2400	
BALT INNER HARBOR MD SCIENCE CENTER	0.02	0.11	0.02									0.31	0.17	0.29					0.56							0.05	0.21	0.03	0.90			2.67	2400	
MANCHESTER 1SW CLOSE	0.36	0.38	0.11									0.26	0.71	0.70					0.78	0.03				0.05		0.01	0.20	T	1.20			4.79	2300	
WESTMINSTER 4 SSE HARTSOCK	T	0.50	0.14	0.03								0.30	0.58	0.83					0.51	0.40				0.01		0.05	0.15		1.01	T		4.51	1900	
MILLERS 4NE MILLER	0.07	0.53	0.10	0.01								0.17	0.48	1.14			T		0.39	0.27				0.01	0.05	T	0.20	T	1.22	0.02		4.66	1800	
BRYANS ROAD 2 ESE BRUMBACK	0.20	0.16	0.02									0.28	0.19	0.21					0.22							0.01	0.14	0.06	1.27			2.76	2355	
EMMITSBURG 2 SE GLASS		1.03	0.13	T								T	0.69	0.42	0.28				T	1.15					0.05		0.07	0.04	0.27	0.91		5.04	0700	
																														3.0		3.0	EDT	

**ACON MD / DE / DC  
OCTOBER 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	0.28	0.14	0.05									0.42	0.89	0.21					0.74							0.05	0.14	0.03	0.92			3.87	2400	
NORBECK 1 SE BERGER	0.42	0.41	0.05	0.02							T	0.28	0.96	0.42					0.90	0.03					0.01	0.06	0.24	0.03	1.09			4.92	2200	
POTOMAC 4N COHEN	0.63	0.44	0.03									0.29	1.63	0.45					0.74					0.03		0.13	0.19	T	1.16			5.72	2100	
OLNEY 1 S GIANNOLA	>	0.83	0.06	0.03							T	0.28	1.12	0.39					0.84	0.07						0.06	0.20	>	1.05			4.93	2400	
CLARKSBURG 2ENE HOLDEN	0.95	0.40	0.07								T	0.34	1.65	0.50				T	0.97	0.02				0.01		0.07	0.21	0.02	1.23			6.44	2400	
MONTGOMERY VILLAGE ROTH 1SW																																	2400	
GLENMONT 1NNE ROSSEN	0.44	0.30	0.02	0.01							T	0.42	1.33	0.26				T	0.87					T		0.08	0.15	0.10	0.99			4.97	2400	
BETHESDA SCAFIDE	0.13	0.17	0.03									0.37	1.15	0.20					0.71					0.01		0.14	0.19	0.06	1.08	0.02		4.26	2400	
GAITHERSBURG 2WNW SHAW	0.88	0.37	0.06									0.27	1.32	0.32					0.75	0.01				0.01		0.05	0.23	0.05	1.10			5.42	2400	
FOREST GLEN TERRY	0.41	0.32	0.01									0.46	1.32	0.28					0.83					0.01		0.14	0.19	0.06	1.10			5.13	2400	
OXON HILL SMITH		0.45	0.15									0.31	0.27	0.46					0.45					0.16		T	0.19	0.01	1.36			3.81	2300	
HOLLYWOOD 3 ENE GLEASON		0.02	0.07									0.14	0.04	0.02					0.21					0.01				0.01	1.45	0.09		2.06	2400	
RIDGE ZYLA		0.62	0.03									0.43	0.05	0.04					0.72									0.04	1.49		0.02	3.44	2400	
SMITHSBURG 1.5 SW HUTTO	0.81	0.63	0.02								0.01	0.48	0.43	0.42					1.20	0.18				0.07			0.12	0.07	1.28			5.72	2400	
HAGERSTOWN 1E KEEFER	0.53	0.60	0.03	T							T	0.45	0.21	0.30					0.88	0.18	T			0.05		0.03	0.08	0.06	1.12		T	4.52	2400	
SMITHSBURG 3 NE VAUGHN	0.79	0.58	0.03								0.02	0.34	0.26	0.28					1.08	0.31				0.07		0.02	0.19	0.04	0.82			4.83	2400	
SALISBURY NWS WICOMICO CO APT	0.02	T	0.06	0.01								0.01	0.01	0.03					0.88							T	0.02	0.03	0.92			1.99	2400	
WASH NATIONAL NWS ASOS	0.29	0.18	T	T							T	0.44	0.72	0.25					0.50	T				0.13		0.01	0.13	0.08	1.18		T	3.91	2400	
WASH DULLES NWS ASOS	0.80	0.16	0.03								T	0.44	1.92	0.61				T	0.81					0.09		0.19	0.12	0.07	1.03			6.27	2400	
STERLING 4 N SHAFFER																																	2400	
DAVIS 3 SE WV LESHER	0.30	1.01	0.72	0.32	0.05							0.34	0.15	0.33	0.59					0.26	0.30	0.01			0.11		1.08	0.60	0.39	0.27			6.83	0700
	T	3.4	4.9	T															T	T							T	5.6	3.2		17.1	EDT		