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

## WARM FINAL MONTH OF AUTUMN THANKSGIVING EVE LIGHT SNOW

The pattern of above normal temperatures continued this month. The first half of the month was warm and dry. Temperatures the second half were quite changeable - some quite warm and some quite cold. Most of November's precipitation fell during the second half. The first snowfall of the season east of the mountains occurred on Thanksgiving Eve, the 23rd.

The month began sunny and mild. A few scattered very light showers fell the night of the 1st. The only amounts of over a tenth of an inch fell in the Western Maryland mountains.

Sunny unseasonably warm maximum temperatures occurred from the 3rd to the 6th. Temperatures ranged from the upper 60's to the upper 70's from the mountains to the ocean. They peaked on the 6th at many locations. Following is a sample of some maximum temperatures observed by ACON observers: **Joe Manfre** of **Baltimore 2 SE** 79, **Jim Vaughn** of **Smithsburg 2 NE** 78, **Floyd Abell** of **Hollywood 77**, **Rebecca Harvey** of **Eagle Rock** 70. Light rain showers fell late on the 6th. Thunder was reported by **Marty Sharrow** of **Owings Mills**, **Bobby Miller** of **Millers 4 NE**, **Al Kreinik** of **Parkton 5 SW**, and **Rich Giannola** of **Olney 1S**.

The next few days saw temperatures a little cooler but still quite mild for the second week of November. Scattered light rain showers occurred from the 8th to the 10th. Thunder was reported by the following observers on the 8th or 9th: **Greg Keefer** of **Hagerstown 1 E**, **Bobby Miller** of **Millers 4 NE**, **Al Kreinik** of **Parkton 5 SW**, **Max Hutto** of **Smithsburg 1.5 SW**, and **Nate Mullins** of **LaVale**.

The 10th saw falling temperatures and windy conditions. The morning of the 11th and 12th brought some frost and freezing temperatures. The following observers reported their latest first freeze on record: **Rich Giannola** of **Olney 1 S**, and **Stan Rossen** of **Glenmont 1 NNE**.

The 16th was the last warm day until the 28th. Temperatures rose into the 70's. 78 degrees was observed by **Joe Manfre** of **Baltimore 2 SE**, and 77 degrees by **Dean Dey** of **U of D Research & Education Center** in **Georgetown DE**, **Floyd Abell** of **Hollywood**, and **John Zyla** of **Ridge**. Strong warm southerly winds in the morning were replaced by colder west to northwest winds in the afternoon. This storm system brought the first significant rain of the month according to a comment made by **Joe Terry** of **Forest Glen**. With the exception of the **ACON Carroll County** observers who reported over 1 inch, rainfall amounts were generally in the half inch range.

Thanksgiving week was quite active. The week began of a wet note and ended with unseasonably cold temperatures. Rainfall amounts on the 21st and 22nd were generally around an inch. The heaviest rains fell in St. Marys County where **John Zyla** of **Ridge** reported 2.61" and **Floyd Abell** of **Hollywood** 1.82". **John Zyla** of **Ridge** reported a low pressure of 29.00", **Gary Gallaher** of **Bear 2 SW DE** 29.12", **Bobby Miller** of **Millers 4 NE** 29.18", **Joe Terry** of **Forest Glen** 29.22", and **Rich Giannola** of **JHU/APL** in **Laurel** 29.24".

The first snows east of the mountains fell on the evening of the 23rd. Most amounts were in the 0.5" to 1.5" range. Lesser amounts fell east of the Chesapeake Bay, and south of Montgomery County.

Thanksgiving evening was very windy. 50 mph or higher gusts were observed at the following locations: **Wilmington DE** NWS 61 mph, **Jim Vaughn** of **Smithsburg 2 NE** 59 mph, **Gary Gallaher** of **Bear 2 SW DE** 53 mph, **BWI** NWS 52 mph, and **Washington National** NWS 50 mph.

Temperatures failed to rise above the low to mid 30's on the 25th. Minimums on the 25th and 26th fell into the teens at

### EXTREMES REPORTED BY ACON OBSERVERS

#### MAXIMUM TEMPERATURE

Jug Bay Wetlands	79
Baltimore 2 SE	79

#### MINIMUM TEMPERATURE

Davis 3 SE WV	0
Eagle Rock	3

#### WARMEST AVG. TEMP.

Ridge	52.9
Hollywood	52.0

#### COLDEST AVG. TEMP.

Davis 3 SE WV	39.7
Eagle Rock	42.3
Frostburg	42.3

#### MAXIMUM PRECIPITATION

Davis 3 SE WV	5.36
Eagle Rock	4.23

#### MINIMUM PRECIPITATION

Laurel JHU/APL	1.82
Bethesda	1.85

#### MAXIMUM SNOWFALL

Davis 3 SE WV	13.4
Eagle Rock	12.0
Frostburg	4.9

many locations. Single digit lows were observed by **Greg Latta** of **Frostburg** and **Rebecca Harvey** of **Eagle Rock**. **Dave Leshner** of **Davis 3 SE WV** observed 0 F.

This cold weather did not last long. By the 28th temperatures warmed up to the 60's. Minimums on the 29th were generally in the 50's but a few 60's were reported.

Rainfall amounts of over an inch fell from Carroll County west into West Virginia from the 27th to the 30th. The heaviest fell in Washington County where **Max Hutto** of **Smithsburg 1.5 SW** reported 2.53", and **Jim Vaughn** of **Smithsburg 2 NE** 2.24".

# OBSERVER COMMENTS FOR NOVEMBER 2005

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

**22nd** - 29.12" barometric pressure set a new minimum November pressure. Old record 29.31 set 11/25/2004. Barometric pressure records since 1991.

**24th** - 53 mph wind gust tied November's max wind gust set on 11/13/2003. Wind records since 1990

## **Greg Latta of Frostburg**

**24th & 25th** - 4" of snow on ground at obs (7AM)

## **Nate Mullins of LaVale**

**23rd** - Steady snows moved in by 8 PM and continued through midnight heavy at times.

**29th** - Heavy rain, streams overflowed. Numerous reports of flooded roads and basements.

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

**23rd** - Period of evening wet snow.

**29th** - Showers with a few brief evening downpours.

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

**Fall Stats:** Avg Max 68.9, +4.2; Avg Min 45.7, +2.5; Avg Temp 57.3, +3.3; Precip 15.83, +2.23

First half of the month warm—able to paint shelter.

**3rd** - Number of contrails visible.

**6th** - Distant thunder.

**8th** - Thunder south and southwest.

## **Marty Sharrow of Owings Mills**

**3rd** - AM frost; then sunny and warmer.

**6th** - AM fog, variable clouds, breezy with evening t-storms.

**18th** - Azure blue skies and chilly.

**19th** - Frosty start; sunshine and cool.

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

**16th** - PC, warm, PM showers, turning much colder.

**25th** - Sunny, breezy, cold.

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

**2nd** - Brief shower, clearing and mild.

**10th** - Windy, colder, partly cloudy.

**16th** - Warm, humid, heavy showers PM.

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

**Fall Stats:** Avg Max 68.3, +3.9; Avg Min 47.1, +1.3; Avg Temp 57.7, +2.5; Precip 16.91, +3.89

**6th** - Hail from evening thunderstorm at 7:08 PM.

**22nd** - Rain mixed with sleet before ending in late morning.

## **Ray Muller of Westminster City**

**23rd—24th** - Clipper brings first snow of season. Low barometric pressure of 29.29"

## **Manuel Farfan of Frederick 4 N**

**1st** - Mostly sunny day and warm!

**12th** - Very hard freeze and frost this morning. Warmer today and mostly sunny.

**29th** - Windy with strong gusts. Cloudy with overnight showers. Temps constantly in the 60's. Rain showers on/off. Very heavy rain and thunder from 7:45PM—8:15 PM.

## **Rebecca Harvey of Eagle Rock**

**25th** - 12" snow cover, maximum depth for the month

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

**3rd** - Scattered morning frost.

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

**11th** - First freeze. Second latest on record.

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

Very mild fall contributed to a bumper crop of figs from our fig tree, culminating with 133 figs picked on the 13th. The remaining figs were picked on the 19th before the tree was finally covered for the winter. I have never picked figs into November before.

**11th** - Morning frost. First freeze of the season. This was the latest first freeze in 20 years of records.

**23rd** - Snow began ~6:45 PM, ending by late evening.

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

Autumn precipitation 13.90"

**11th** - Latest first freeze. Previous 11/6/00 & 11/6/04

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

Completed 27 years of records. (Dec 1978—Nov 2005).

## **Joe Terry of Forest Glen**

**16th** - First significant rain in over 3 weeks. Strong cold front dropped the temperature 17 degrees in one hour.

**25th** - Dew point fell to 0F.

## **Brian Smith of Oxon Hill**

**12th** - Widespread light frost.

## **Floyd Abell of Hollywood**

**16th** - Evening showers and weak thunder.

**21st** - Rain started mid morning—late evening thunder.

**23rd** - Fair day, evening snow to rain & snow mix.

## **John Zyla of Ridge**

**21st & 22nd** - Very low barometric pressure of 29.00".

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

**1st** - AM frost, sunny, pleasant, windy, PM showers

**25th** - Coldest temperatures since March 10th.

**29th** - Windy, warm, rain & thunderstorms. Extremely windy with the highest peak gust so far this year.

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

**3rd** - Great fall day mostly sunny and mild.

**9th** - Late evening thunder, lightning & gusty winds 29 mph.

**12th** - Hard freeze

**16th** - Warm and breezy overnight temp in the 60's all night.

**29th** - Warm & windy overnight with a few showers. Strong SE winds gusting to 41. Temps remained in the 60's all night.

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

**Fall Stats:** Avg Max 69.3, +2.7; Avg min 47.9, +2.5; Avg Temp 58.6, +2.5; Precip 11.03, -0.33"; Snow 0.4", -0.9". This fall tied 1985 as the second warmest.

**25th** - First November max temp below 32 since 11/27/1991.

**29th** - Max wind gust of 66 MPH tied the max Nov gust set on 11/19/2003.

## **Lance Shaffer of Sterling 4 N VA**

**1st** - Late PM light rain.

**7th** - Minimum temperature occurred in the late PM.

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 would not be possible.

**ACON MD / DE / DC  
NOVEMBER 2005 SUMMARY**

OBSERVER	STATION COUNTY, STATE	TEMPERATURE									PEAK WIND			PRECIPITATION					SNOWFALL				OBS TIME		
		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON
<i>New Castle, Delaware</i>																									
Canavan, Jim	Wilmington 4 NNE																								2400
Gallaher, Gary	Bear 2 SW	58.6	34.9	46.8	76	6	18	26	0	0	14	53	NW+	24	2.42	0.82	16	41.61	8	0	0.2	0.2	23	0.2	2400
NWS Wilmington	New Castle Co. Apt.	58.7	37.0	47.9	76	6	20	25+	0	0	10	61	WNW	24	2.41	0.75	16	37.04	8	0	0.2	0.2	23	0.2	2400
U of D Townsend Farm	Townsend 4 W	<u>59.1</u>	<u>37.4</u>	<u>48.3</u>	76	5+	20	26	0	0	8				2.61	0.83	21	<u>26.42</u>	7	0					2400
<i>Sussex, Delaware</i>																									
NWS Georgetown	Sussex Co. Airport	63.0	40.3	51.7	79	16	21	26	0	0	9	38	NW+	16+	3.09	0.95	21	42.38	10	0					2400
U of D Research & Ed Ct	Georgetown	61.6	39.8	50.7	77	16	19	26	0	0	10				2.93	1.04	21	38.95	10	1					2400
U of D Warrington Farm	Harbeson 8 S	60.9	38.0	49.5	75	6+	18	26	0	0	11				3.23	1.09	21	44.96	7	1					2400
<i>Allegany, Maryland</i>																									
Latta, Greg	Frostburg	52.1	32.4	42.3	70	5	7	25+	0	2	12				3.99	1.79	30	37.73	12	1	4.9	4.2	24	8.4	0700
Mullins, Nate**	LaVale	55.4	35.0	45.2	76	4	15	25	0	0	13				3.98	1.76	29	37.89	17	1	3.7	3.0	23	3.7	2400
<i>Anne Arundel, Maryland</i>																									
Bryant, Dave	Annapolis 2 N	58.7	44.0	51.4	70	9	27	25	0	0	3				<u>1.38</u>	0.76	16	<u>27.50</u>	4	0					2400
Hanson, Dan	Millersville 1 SE	59.4	36.7	48.1	77	6	18	26	0	0	10	38	NW	24	2.10	0.76	29	37.70	11	0	0.8	0.8	23	0.8	2400
Jug Bay Wetlands	Lothian	63.4	38.0	50.7	79	6+	17	26	0	0	9				2.35	1.22	22	<u>39.46</u>	8	1					0900
NWS Baltimore	BWI Airport	59.6	36.5	48.1	77	6	19	26	0	0	10	52	WNW	24	2.12	0.74	21	45.23	7	0	0.5	0.5	23	0.5	2400
Stoudt, Jeff	Laurel 2 E	59.1	36.7	47.9	77	6	19	26	0	0	10				2.48	0.82	29	48.38	7	0	0.6	0.6	23	0.6	2400
<i>Baltimore, Maryland</i>																									
Kreinik, Al	Parkton 5 SW	58.7	34.7	46.7	77	5	16	26	0	0	13				2.47	0.87	22	44.94	11	0	0.7	0.7	24	0.7	2200
Sharrow, Marty	Owings Mills 2 SE	56.0	35.6	45.8	73	16	16	25	0	1	11				2.00	0.78	21	39.54	6	0	0.8	0.8	23	0.8	2400
<i>Baltimore City, Maryland</i>																									
Manfre, Joe	Baltimore 2 SE	60.5	41.7	51.1	79	6	22	25	0	0	6				2.16	0.74	21	40.76	11	0	T	T	23	T	1800
Maryland Science Ctr	Baltimore Inner Harbor	60.2	42.2	51.2	79	6	22	25	0	0	6				2.22	0.73	29	41.10	9	0					2400
<i>Carroll, Maryland</i>																									
Close Jr, Herb	Manchester 1 SW	57.2	38.0	47.6	77	5	15	25	0	0	9				3.37	1.10	16	45.79	13	2	1.2	1.1	23	1.2	2300
Hartsock, Ralph	Westminster 4 SSE	55.5	36.4	46.0	72	16	15	25	0	1	11	43	WNW	24	3.52	0.95	30	43.35	11	0	0.8	0.8	24	0.8	1900
Klein, Greg	Westminster 5 SSE	53.9	36.3	45.1	70	6	15	25	0	1	11				3.67	1.27	16	42.67	10	2	1.3	1.3	23	1.3	2200
Miller, Bobby	Millers 4 NE	57.8	36.3	47.1	77	5	15	25	0	1	11	40		22+	3.84	0.97	30	50.70	12	0	1.4	1.4	24	1.4	1800
Muller, Ray	Westminster City	58.6	36.5	47.6	76	5	16	25	0	1	10	40	NW	29	3.78	1.30	16	45.77	8	2	0.9	0.9	24	0.9	2200
<i>Frederick, Maryland</i>																									
Farfan, Manuel	Frederick 4 N	57.4	34.8	46.1	75	5	18	26	0	1	12				3.64	1.72	29	41.01	12	1	1.2	1.1	23	1.2	2400
<i>Garrett, Maryland</i>																									
Harvey, Rebecca	Eagle Rock	52.9	31.7	42.3	70	7	3	25	0	3	15				4.23	1.20	30	44.39	14	1	12.0	5.0	24	19.0	0800
<i>Harford, Maryland</i>																									
Albright, Lynn	Fallston 2 NW																	<u>12.04</u>							2400
<i>Howard, Maryland</i>																									
Giannola, Rich	Laurel JHU / APL	57.4	36.9	47.2	74	5+	18	25	0	1	10	41	NNW	24	1.82	0.71	21	39.33	6	0	1.0	1.0	23	1.0	2400

**ACON MD /DE / DC  
NOVEMBER 2005 SUMMARY**

OBSERVER	STATION <i>COUNTY, STATE</i>	TEMPERATURE									PEAK WIND			PRECIPITATION					SNOWFALL				OBS TIME		
		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON
<i>Montgomery, Maryland</i>																									
Cohen, Rob	Potomac 4 N	59.5	36.4	48.0	78	5+	19	25	0	0	11				2.94	0.89	16	45.99	8	0	1.3	0.8	23	1.3	2100
Giannola, Rich	Olney 1 S	59.5	39.2	49.4	75	5+	18	26	0	0	8				2.47	1.08	21-22	43.97	5	1	1.3	1.3	23	1.3	2400
Roth, David	Montgomery Village 1SW	58.6	37.4	48.0	77	6	20	25	0	0	11	23		10	2.38	0.71	21	40.01	10	0					2400
Rossen, Stan	Glenmont 1 NNE	60.2	35.9	48.1	78	4	19	26	0	0	11	16		10	2.22	0.90	21	45.05	8	0	1.1	1.1	23	1.1	2400
Scafide, Tony	Bethesda	58.0	38.5	48.3	75	6	20	25	0	0	8				1.85	0.80	21	<u>28.21</u>	9	0					2400
Shaw, Kevin	Gaithersburg 2 WNW	56.5	34.3	45.4	74	6	15	25	0	0	13				2.44	0.82	21	41.32	7	0	1.1	1.1	23	1.1	2400
Terry, Joe	Forest Glen	60.5	37.6	49.1	77	6	20	25	0	0	11	33	SW	16	2.29	0.88	21	47.74	8	0	0.8	0.8	23	0.8	2400
Wash Gas Light	Rockville 1 NE	57.1	37.7	47.4	75	6	18	25+	0	1	9				1.93	0.80	21	<u>34.40</u>	5	0	1.0	1.0	23	1.0	2400
<i>Prince Georges, Maryland</i>																									
Smith, Brian	Oxon Hill	59.9	39.7	49.8	77	6	22	25+	0	0	8				2.13	0.70	16	42.08	10	0	0.4	0.4	23	0.4	2400
<i>St. Marys, Maryland</i>																									
Abell, Floyd	Hollywood	62.8	41.2	52.0	77	6+	22	25+	0	0	8	35		22	3.05	0.98	21	42.56	7	0	0.1	0.1	23	0.1	2400
Zyla, John	Ridge	61.5	44.2	52.9	77	16	25	25	0	0	6	40	NE	22	3.48	1.44	21	41.12	8	2	T	T	23	T	2400
<i>Washington, Maryland</i>																									
Hutto, Max	Smithsburg 1.5 SW	57.3	33.0	45.2	74	4+	16	25	0	1	16				4.22	2.43	29	39.21	14	1	1.0	0.5	23+	1.0	2400
Keefer, Greg	Hagerstown 1 E	57.1	33.9	45.5	75	5	16	25	0	1	11	46	NW	22	3.49	1.92	29	37.49	11	1	0.6	0.4	23	0.6	2400
Vaughn, Jim	Smithsburg 2 NE	59.1	35.9	47.5	78	5	14	25	0	1	11	66	SSE	2	3.73	2.14	29	37.56	12	1	0.4	0.4	23	0.4	2400
<i>Wicomico, Maryland</i>																									
NWS Salisbury	Wicomico Co. Apt	61.6	35.9	48.8	76	16	16	26	0	0	13	39	WNW	22	3.60	1.29	21	47.53	10	1	T	T	23	T	2400
<i>Arlington, Virginia</i>																									
NWS Washington Nation: National Airport		59.7	40.7	50.2	77	6	22	25	0	0	7	50	NNW	24	1.92	0.63	21	41.04	9	0	T	T	23	T	2400
<i>Loudon, Virginia</i>																									
NWS Washington Dulles	Dulles Airport	59.7	35.9	47.8	77	6	19	25	0	0	11	41	S	29	2.49	0.83	21	41.67	9	0	0.3	0.3	23	0.3	2400
Shaffer, Lance	Sterling 4 N	60.0	37.7	48.9	77	6	20	25	0	0	10				2.89	1.18	21-22	43.68	11	1	0.6	0.6	23	0.6	2400
<i>Tucker, West Virginia</i>																									
Leshner, Dave	Davis 3 SE WV	48.4	30.9	39.7	65	16	0	25+	0	6	15				5.36	1.25	30	54.44	18	2	13.4	4.9	24	27.9	0700
SECTION AVERAGE*		58.7	37.3	48.0											2.82						1.4				

**NOTES:**

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

\*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.

\*\*OBSERVERS FOR LAVALE ARE DAVID DREWERY AND CHARLES ORLICK. DATA COMPILED BY NATE MULLINS.

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

GARY GALLAHER 12/30/05 Rev 1/29/06

**ACON MD / DE / DC  
NOVEMBER 2005 DAILY TEMPERATURES**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	OBS TIME	
WILMINGTON 4NNE CANAVAN																																		2400 EST
BEAR 2 SW, DE GALLAHER	68 34	59 34	66 32	67 37	74 41	76 44	61 39	66 36	70 53	70 41	50 29	60 27	66 31	64 47	70 54	74 45	46 31	40 23	50 21	58 28	50 32	48 35	38 29	50 23	35 19	45 18	52 29	63 49	64 53	58 34		58.6 34.9	2400 EST	
WILMINGTON , DE NWS NEW CASTLE CO APT	68 38	60 42	66 37	67 41	69 45	76 45	62 45	66 38	70 53	70 41	51 33	59 28	66 36	67 51	69 55	75 45	46 31	40 26	49 24	58 31	50 35	48 35	38 28	51 22	35 20	42 20	52 32	65 48	66 53	59 33		58.7 37.0	2400 EST	
Towsend 4 W, DE U of D Townsend Farm	70 48	M M	66 34	69 45	76 46	76 44	62 42	67 39	M M	70 41	M M	M M	M M	65 48	71 55	74 44	46 31	39 24	50 22	58 31	50 40	47 34	37 29	49 23	33 21	44 20	M M	67 46	71 55	61 34		59.1 37.4	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT	71 47	63 38	68 35	72 49	75 52	77 54	66 42	73 41	73 56	54 44	54 34	62 31	69 41	74 54	73 56	48 47	43 33	43 27	52 24	62 32	55 40	53 31	41 29	59 23	38 21	49 30	59 52	72 61	73 40	65 40		63.0 40.3	2400 EST	
GEORGETOWN, DE UofD RESEARCH & ED CTR	70 48	61 37	66 34	72 49	75 52	77 54	66 42	72 41	72 66	71 41	52 32	61 29	68 43	71 55	72 55	77 46	46 32	42 25	51 22	59 33	53 44	51 38	39 31	56 28	35 22	47 19	58 28	70 50	61 38		61.6 39.8	2400 EST		
HARBESON 8 S, DE UofD WARRINGTON FARM	47 47	61 36	66 33	72 47	74 50	75 53	65 40	71 39	72 54	71 41	52 30	60 28	67 43	71 51	72 58	75 45	45 31	41 25	51 21	59 30	54 38	51 37	38 28	57 27	34 20	47 18	56 26	68 50	69 59	63 39		60.9 38.0	2400 EST	
FROSTBURG LATTA	65 39	62 39	51 38	69 45	70 55	68 48	69 43	54 43	64 52	67 38	42 31	46 31	57 34	64 37	57 41	61 42	56 23	30 16	35 16	47 22	55 31	48 34	38 19	33 19	38 7	22 7	37 18	42 33	58 38	57 34		52.1 32.4	0700 EST	
LAVALE MULLINS**	68 36	56 40	72 35	76 40	72 49	72 47	60 42	65 37	65 53	53 40	65 32	64 32	65 34	65 46	62 25	60 45	35 25	42 23	43 23	60 25	50 32	44 32	45 30	35 27	45 25	45 22	55 36	46 43	62 46	49 41		55.4 35.0	2400 EST	
ANNAPOLIS 2 N BRYANT	65 50	62 49	66 46	65 52	67 54	69 55	64 54	67 47	70 55	70 43	55 38	58 38	66 46	68 57	67 59	69 48	49 36	44 33	51 34	56 41	58 48	50 35	43 29	52 27	36 29	45 29	53 37	63 44	64 56	52 42		58.7 44.0	2400 EST	
MILLERSVILLE 1SE HANSON	70 40	62 38	68 34	66 40	72 45	77 46	65 42	68 40	68 51	69 42	54 33	61 29	68 39	67 52	75 43	44 30	42 25	51 21	59 29	50 38	50 37	40 31	48 24	35 19	48 18	47 28	54 47	67 54	66 47	54 37		59.4 36.7	2400 EST	
LOTHIAN JUG BAY	76 42	73 41	67 34	71 42	74 45	79 48	79 45	68 39	72 47	71 54	M M	57 28	65 39	73 48	70 50	75 61	76 30	45 25	45 20	54 28	64 37	50 41	50 29	44 33	54 22	38 17	49 26	56 35	72 52	71 45		63.4 38.0	0900 EST	
BALTIMORE NWS BWI APT	70 37	61 39	67 34	69 41	75 44	77 47	63 43	69 39	70 53	70 40	53 30	61 33	68 53	67 52	76 44	44 28	41 26	50 22	60 28	50 38	50 36	39 29	50 21	34 19	46 20	52 19	68 28	66 48	54 53		59.6 36.5	2400 EST		
LAUREL 2 E STOUDT	69 40	60 40	67 36	69 42	75 46	77 47	63 46	65 40	69 50	69 42	59 34	69 30	65 35	69 48	69 41	52 29	58 25	49 22	58 28	50 38	49 36	50 29	34 22	50 19	47 28	52 46	68 52	67 36	55 36		59.1 36.7	2400 EST		
PARKTON 5SW KREINIK	70 40	61 38	70 30	69 35	77 42	73 46	72 44	70 37	61 50	62 36	53 26	61 27	66 37	64 48	65 48	71 43	42 29	41 21	50 18	61 26	49 32	47 35	48 22	34 17	45 16	48 30	66 44	65 60	63 36		58.7 34.7	2200 EST		
OWINGS MILLS 2SE SHARROW	63 38	57 41	67 35	63 39	69 44	71 47	63 45	64 40	62 50	63 38	50 30	61 30	61 39	62 50	64 48	73 41	43 27	42 21	50 20	55 28	48 36	46 34	35 26	45 30	31 16	43 18	48 28	65 43	63 51	52 34		56.0 35.6	2400 EST	
BALTIMORE 2SE MANFRE	72 47	63 46	69 43	68 48	73 51	79 53	65 46	66 56	71 42	71 35	54 39	63 43	70 56	67 55	70 47	78 33	47 30	44 30	53 35	59 42	50 37	49 32	41 25	50 22	35 29	49 36	51 49	67 54	67 54	55 39		60.5 41.7	1800 EST	
BALT INNER HARBOR MD SCIENCE CENTER	69 47	62 47	69 43	68 48	73 51	79 53	65 46	66 55	68 45	69 39	54 40	63 44	68 56	67 54	78 47	47 33	43 30	53 30	59 36	51 46	50 37	41 32	50 25	35 22	49 29	51 36	67 49	67 54	55 40		60.2 42.2	2400 EST		
MANCHESTER 1SW CLOSE	70 44	60 40	68 41	73 48	77 55	73 52	62 46	70 50	61 52	65 38	52 33	59 39	66 40	61 51	63 49	68 41	41 25	49 21	61 27	49 37	49 41	45 31	36 26	48 18	33 15	43 21	47 33	64 45	62 48	50 32		57.2 38.0	2300 EST	
WESTMINSTER 4 SSE HARTSOCK	64 38	58 40	63 34	65 38	66 46	71 46	67 41	63 51	66 43	63 30	51 31	54 37	61 54	62 61	63 54	72 46	46 30	34 22	46 27	54 35	47 37	45 37	39 26	47 26	29 15	39 17	49 48	63 40	65 57	60 38		55.5 36.4	1900 EST	
WESTMINSTER 5 SSE KLEIN	62 41	56 39	62 39	65 41	69 50	70 50	61 47	64 44	60 49	55 39	60 32	60 35	62 38	68 49	39 48	39 26	35 22	23 23	32 32	38 25	43 19	34 15	46 20	29 15	40 20	46 31	61 43	62 49	49 33		53.9 36.3	2200 EST		
MILLERS 4NE MILLER	69 39	60 40	70 33	73 40	77 50	74 43	68 42	67 52	61 42	62 29	50 30	60 39	67 61	63 63	69 45	45 39	49 49	59 49	49 46	59 35	49 35	46 27	35 15	47 17	32 31	43 43	48 51	65 43	63 37		57.8 36.3	1800 EST		
WESTMINSTER CITY MULLER	70 39	64 39	69 37	68 41	76 47	74 53	64 42	68 42	68 52	61 39	51 33	60 32	66 42	66 51	66 46	70 44	44 26	40 23	49 23	60 29	50 38	48 32	45 27	46 20	32 16	44 20	63 35	63 47	62 46		58.6 36.5	2200 EST		
FREDERICK 4 N FARFAN	68 36	59 37	68 34	70 39	75 42	74 46	62 46	68 39	65 52	63 35	53 31	60 29	66 31	60 50	67 49	70 42	42 28	38 25	50 20	60 26	45 33	48 34	38 29	49 21	32 19	44 18	47 29	64 43	66 48	50 34		57.4 34.8	2400 EST	
EAGLE ROCK HARVEY	66 44	62 44	50 36	69 44	69 52	66 48	70 40	54 40	60 48	69 32	49 26	44 26	39 34	44 40	60 60	62 50	58 20	28 10	30 19	46 26	50 30	46 30	50 30	34 14	34 3	39 6	49 26	50 36	59 40	59 30		52.9 31.7	0800 EST	
FALLSTON 2 NW ALBRIGHT																																		2400 EST

**ACON MD / DE / DC**  
**NOVEMBER 2005 DAILY TEMPERATURES**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	OBS TIME
LAUREL JHU / APL	67	57	66	67	74	74	61	68	67	66	51	59	67	63	67	72	42	39	49	60	48	46	36	47	32	45	51	65	65	51		57.4	2400
GIANNOLA	46	39	36	42	45	48	46	40	50	41	36	32	39	54	51	42	27	24	22	31	39	33	27	20	18	19	30	46	50	34		36.9	EST
POTOMAC 4N	70	62	68	69	78	78	66	66	68	65	55	67	70	62	68	72	45	42	52	62	48	47	41	47	35	48	51	66	65	52		59.5	2100
COHEN	38	41	35	39	44	48	44	36	50	40	29	29	36	50	51	45	30	26	23	30	37	29	33	22	19	21	29	46	54	37		36.4	EST
OLNEY 1 S	68	61	68	67	75	75	63	65	65	65	54	60	68	64	67	73	41	40	51	60	50	47	37	>	>	47	52	65	65	52		59.5	2400
GIANNOLA	45	41	39	43	48	55	52	41	52	38	32	33	42	52	51	41	28	24	23	32	41	35	28	>	>	18	32	46	52	34		39.2	EST
MONTGOMERY VILLAGE	68	60	68	69	74	77	64	66	68	68	53	60	69	63	68	73	40	39	50	59	50	48	38	50	33	44	52	67	67	54		58.6	2400
ROTH 1SW	39	41	35	40	46	50	45	39	53	41	32	32	40	52	53	40	30	27	24	31	39	36	30	23	20	21	30	47	53	37		37.4	EST
GLENMONT 1NNE	71	62	70	69	78	77	66	66	67	65	56	64	72	65	69	76	44	43	54	64	49	50	39	48	36	48	53	67	67	52		60.2	2400
ROSSEN	38	39	34	39	49	47	42	38	50	38	30	30	35	49	49	42	29	25	22	29	37	35	29	22	20	19	28	46	52	35		35.9	EST
BETHESDA	65	59	65	65	71	75	63	66	66	68	53	60	69	63	69	74	43	39	50	59	50	48	39	48	33	45	52	67	67	52		58.0	2400
SCAFIDE	45	41	38	43	47	52	45	42	52	38	33	32	44	53	51	43	29	26	25	34	42	36	29	23	20	23	33	47	52	36		38.5	EST
GAITHERSBURG 2WNW	65	58	65	65	70	74	61	63	65	63	52	57	66	61	67	71	40	38	48	57	47	46	37	47	33	44	51	65	67	51		56.5	2400
SHAW	35	37	32	37	43	47	42	35	51	36	28	27	36	50	50	40	27	24	19	28	36	32	27	20	15	17	27	46	51	33		34.3	EST
FOREST GLEN	70	63	68	68	76	77	66	68	68	66	56	63	71	67	70	76	45	43	53	63	50	51	40	48	36	47	54	68	68	55		60.5	2400
TERRY	43	39	36	41	46	50	43	40	52	38	31	31	43	51	52	41	29	26	25	32	42	36	29	23	20	22	32	48	53	34		37.6	EST
ROCKVILLE 1NE	67	58	66	67	73	75	63	66	65	68	51	58	66	61	67	72	40	38	49	57	49	46	38	46	32	43	52	64	65	51		57.1	2400
WASH GAS LIGHT	42	38	38	42	46	50	46	40	52	40	34	33	44	54	52	42	29	27	24	30	41	36	30	21	18	18	32	47	51	35		37.7	EST
OXON HILL	69	60	67	69	72	77	64	67	69	70	54	60	68	66	71	76	45	40	50	59	51	50	40	51	35	47	54	71	69	57		59.9	2400
SMITH	45	43	38	47	47	54	45	42	51	43	34	34	44	53	53	45	32	28	25	33	44	38	30	26	22	22	32	48	57	37		39.7	EST
HOLLYWOOD	72	64	70	73	75	77	69	73	73	71	57	63	71	71	74	77	47	44	54	61	51	52	43	60	38	49	57	70	69	60		62.8	2400
ABELL	50	40	39	51	50	54	45	46	54	39	34	33	46	57	57	46	31	27	26	38	45	42	31	27	22	22	31	51	60	42		41.2	EST
RIDGE	70	62	70	73	67	76	69	74	74	59	56	60	71	69	71	77	47	47	51	60	52	51	45	62	39	46	54	68	66	59		61.5	2400
ZYLA	50	45	48	54	52	60	50	54	58	42	37	38	50	59	58	46	36	28	31	47	44	37	31	28	25	28	46	50	53	41		44.2	EST
SMITHSBURG 1.5 SW	69	58	70	74	74	74	60	65	68	62	52	61	67	61	67	69	40	37	50	59	46	46	36	48	32	45	50	65	66	48		57.3	2400
HUTTO	33	35	31	36	42	45	38	32	51	37	32	27	32	48	47	40	27	20	18	24	31	32	27	19	16	17	31	42	47	33		33.0	EST
HAGERSTOWN 1E	69	59	72	72	75	74	60	64	64	62	54	60	67	59	67	69	41	38	50	60	46	48	37	48	32	44	48	63	64	47		57.1	2400
KEEFER	35	37	34	38	45	46	41	34	51	38	30	28	33	50	47	41	27	20	20	26	33	33	29	19	16	18	31	41	44	33		33.9	EST
SMITHSBURG 2 NE	70	60	71	75	78	74	62	67	71	69	53	63	68	64	72	69	43	44	53	61	48	46	37	47	31	45	52	64	66	50		59.1	2400
VAUGHN	42	36	36	46	50	52	42	39	53	39	35	32	40	51	48	43	25	20	22	30	38	29	25	20	14	18	32	42	45	34		35.9	EST
SALISBURY	70	62	66	70	72	74	67	72	74	71	54	60	66	72	72	76	47	42	51	60	54	52	40	58	35	48	59	70	70	64		61.6	2400
NWS WICOMICO CO APT	43	32	29	50	48	51	37	36	53	37	27	25	38	50	51	44	31	21	18	25	38	39	27	28	18	16	24	43	59	39		35.9	EST
WASH NATIONAL	69	62	67	68	75	77	65	65	69	69	54	60	68	66	69	75	45	42	50	58	50	50	41	51	36	46	53	69	68	54		59.7	2400
NWS ASOS	49	46	41	47	50	54	47	45	51	42	38	36	44	53	53	45	31	28	29	35	44	38	31	25	22	27	34	47	53	37		40.7	EST
WASH DULLES	70	62	69	70	75	77	65	69	68	67	55	62	70	62	70	74	43	40	52	61	48	50	41	50	34	47	54	67	66	53		59.7	2400
NWS ASOS	40	37	33	44	43	48	40	36	50	38	31	28	37	51	49	43	29	26	21	30	39	35	29	23	19	20	28	44	51	36		35.9	EST
STERLING 4 N	71	62	69	71	74	77	64	62	69	67	56	63	74	63	70	73	44	40	53	62	48	49	43	51	36	47	52	67	68	54		60.0	2400
SHAFFER	38	43	35	40	45	49	45	38	51	42	33	32	36	51	51	43	31	28	24	31	41	41	30	26	20	22	30	44	53	38		37.7	EST
DAVIS 3 SE WV	57	55	46	60	64	62	62	51	59	63	33	39	56	56	55	65	54	22	29	42	49	46	28	30	29	30	45	53	56	56		48.4	0700
LESHER	41	35	35	42	51	51	38	37	47	32	26	26	37	41	40	53	18	10	10	23	32	28	14	15	0	0	28	42	47	29		30.9	EST

**ACON MD / DE / DC  
NOVEMBER 2005 DAILY PRECIPITATION**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	OBS TIME
WILMINGTON 4NNE CANAVAN																																	2400 EST
BEAR 2 SW, DE GALLAHER						0.03				0.01				T	T	0.82					0.64	0.22	0.02 0.2	T T			T	T	0.67	0.01		2.42 0.2	2400 EST
WILMINGTON, DE NWS NEW CASTLE CO APT						0.05				0.01				T	T	0.75					0.62	0.28	0.01 0.2	T T			T		0.65	0.04		2.41 0.2	2400 EST
Towsend 4 W, DE U of D Townsend Farm										0.08						0.81						0.83	0.33	0.02					0.53	0.01		2.61 -	2400 EST
GEORGETOWN, DE NWS SUSSEX CO APT						0.01		T	T	0.10					0.01	0.42	0.32				0.95	0.69	T	0.01			T	T	0.28	0.30		3.09 -	2400 EST
GEORGETOWN, DE UofD RESEARCH & ED CTR						0.01				0.11						0.49	0.21				1.04	0.56	0.01	0.01					0.28	0.21		2.93 -	2400 EST
HARBESON 8 S, DE UofD WARRINGTON FARM										0.12						0.49	0.22				1.09	0.55	T	T					0.22	0.54		3.23 -	2400 EST
FROSTBURG LATTA		0.10					T		0.19	0.10	0.02 T				0.39	0.27	0.42						T 0.2	0.42 4.2	0.05 0.5			0.18	0.06	1.79		3.99 4.9	0700 EST
LAVALE MULLINS**	0.06					0.03		0.09	0.30	0.03	0.01			0.30	0.10	0.62	T T				0.01	0.01 T	0.33 3.0	0.10 0.7			0.18	0.04	1.76	0.01		3.98 3.7	2400 EST
ANNAPOLIS 2 N BRYANT		T				T	T						T	T		0.76					M	0.23	0.04	T			T		0.35			1.38	2400 EST
MILLERSVILLE 1SE HANSON				0.02		0.07	0.01								0.01	0.04	0.32					0.70	0.10	0.06 0.8				0.01	0.76			2.10 0.8	2400 EST
LOTHIAN JUG BAY	0.01		T			T		T	0.03	0.01							0.56			T		1.22	0.06	0.06		T		T	T	0.40		2.35 0.0	0900 EST
BWI NWS ASOS						0.01		T	T	T				T	0.01	0.55					0.74	0.15	0.05 0.5	T T			T	T	0.61			2.12 0.5	2400 EST
LAUREL 2 E STOUDT						T		0.01	T	T						0.63					0.67	0.24	0.09 0.6	T				0.02	0.82			2.48 0.6	2400 EST
PARKTON 5SW KREINIK		T					0.21			0.01					0.04	0.40	0.27				0.11	0.87	T	0.05 0.7				0.01	0.05	0.45		2.47 0.7	2200 EST
OWINGS MILLS 2SE SHARROW						T		T	T					T	T	0.63					0.78	0.16	0.07 0.8	0.01 T			T	T	0.35			2.00 0.8	2400 EST
BALTIMORE 2SE MANFRE						0.02		0.02	T	T				T	0.01	0.54					0.74	0.12	0.01 T	0.04			T	0.01	0.64	0.01		2.16 T	1800 EST
BALT INNER HARBOR MD SCIENCE CENTER						0.02		0.01							0.01	0.57					0.72	0.10	0.05				0.01		0.73			2.22 -	2400 EST
MANCHESTER 1SW CLOSE	0.01	0.01				0.02		0.01	T	0.05					0.02	1.10					0.62	0.39	0.07 1.1	0.01 0.1				0.01	1.05			3.37 1.2	2300 EST
WESTMINSTER 4 SSE HARTSOCK		0.01							0.09						0.01	0.95	0.33				0.25	0.76		0.07 0.8				0.01	0.09	0.95		3.52 0.8	1900 EST
WESTMINSTER 5 SSE KLEIN							0.08	0.01							0.02	1.27					0.55	0.59	0.05 1.3				0.01		1.06	0.03		3.67 1.3	2200 EST
MILLERS 4NE MILLER		0.03					0.28		T	0.04					0.03	0.87	0.25				0.22	0.91	T	0.11 1.4				0.02	0.11	0.97		3.84 1.4	1800 EST
WESTMINSTER CITY MULLER	T							0.15	T	0.13				T	0.04	1.30					0.55	0.52	T T	0.05 0.9			T	1.04			3.78 0.9	2200 EST	
FREDERICK 4 N FARFAN					0.01			0.09	0.04						0.02	0.67					0.71	0.18	0.05 1.1	0.02 0.1			0.11	0.02	1.72			3.64 1.2	2400 EST
EAGLE ROCK HARVEY		0.27						0.50	0.15	0.01				0.02	0.35	0.62	0.17	T T				T	0.30 4.0	0.25 5.0	0.10 3.0			0.16	0.13	1.20		4.23 12.0	0800 EST
FALLSTON 2 NW ALBRIGHT																																	2400 EST

**ACON MD / DE / DC  
NOVEMBER 2005 DAILY PRECIPITATION**

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	OBS TIME
LAUREL JHU / APL GIANNOLA														T		0.47					0.71	0.17	0.04 1.0				0.01	T	0.42			1.82 1.0	2400 EST
POTOMAC 4N COHEN								T	T	T				T		0.89					0.76	0.70	0.06 0.5	0.06 0.8			0.04	0.02	0.41			2.94 1.3	2100 EST
OLNEY 1 S GIANNOLA								T	T					T	T	0.86					>	1.08	0.05 1.3			0.02	T	0.46			2.47 1.3	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW						0.01		0.01	0.01					0.03		0.67					0.71	0.31	0.04						0.55	0.04		2.38 0.0	2400 EST
GLENMONT 1NNE ROSSEN	T							0.03	T	T				T	T	0.56					0.90	0.22	0.06 1.1	T		0.04	0.01	0.40			2.22 1.1	2400 EST	
BETHESDA SCAFIDE								0.01								0.52					0.80	0.19	0.03			0.04	0.02	0.23	0.01		1.85 -	2400 EST	
GAITHERSBURG 2WNNW SHAW						T		T	T				0.01	T		0.67					0.82	0.29	0.05 1.1			0.02	T	0.58			2.44 1.1	2400 EST	
FOREST GLEN TERRY								0.02	T	T					T	0.67					0.88	0.18	0.07 0.8			0.02	0.02	0.43			2.29 0.8	2400 EST	
ROCKVILLE 1NE WASH GAS LIGHT	T							T	T				T			0.60					0.80	0.19	T 1.0			0.07	T	0.27			1.93 1.0	2400 EST	
OXON HILL SMITH	T							0.06	0.01	T				T		0.70					0.66	0.22	0.07 0.4	0.01		T	0.03	0.36	0.01		2.13 0.4	2400 EST	
HOLLYWOOD ABELL								T	0.01							0.49					0.98	0.84	0.04 0.1	T		T	0.01	0.68			3.05 0.1	2400 EST	
RIDGE ZYLA								0.04		0.03						0.34					1.44	1.17	0.01 T			T	0.01	0.44			3.48 T	2400 EST	
SMITHSBURG 1.5 SW HUTTO	0.04					0.01		0.08	0.09						0.08	0.22	0.01				0.89	0.22	0.02 0.5	0.03 0.5		0.06	0.04	2.43			4.22 1.0	2400 EST	
HAGERSTOWN 1E KEEFER	0.04					T		0.11	0.12						0.09	0.22					0.73	0.19	0.02 0.4	0.01 0.2		0.04	T	1.92			3.49 0.6	2400 EST	
SMITHSBURG 2 NE VAUGHN	0.06							0.05	0.05	T				T	0.06	0.23					0.77	0.24 T	0.03 0.4	T T		0.05	0.03	2.14	0.02		3.73 0.4	2400 EST	
SALISBURY NWS WICOMICO CO APT								T	0.01	0.12						0.43	0.19				1.29	0.74	0.01 T	0.01		T		0.42	0.38		3.60 T	2400 EST	
WASH NATIONAL NWS ASOS		T						0.05	T	T				T	0.01	0.48					0.63	0.18	0.04 T	0.01		T	0.04	0.48			1.92 T	2400 EST	
WASH DULLES NWS ASOS	T							0.13	T				T	0.01	T	0.78					0.83	0.31	0.04 0.3	T		0.07	0.04	0.28			2.49 0.3	2400 EST	
STERLING 4 N SHAFFER	0.01							0.09	0.02	T				0.02	0.02	0.77	T				>	1.18	0.06 0.6			0.04	0.06	0.62	T		2.89 0.6	2400 EST	
DAVIS 3 SE WV LESHER		0.32				0.01	0.05 T	1.08	0.12	0.02	0.02 T			0.04	0.18	0.36	0.38 T	0.01 0.2				0.02 0.2	0.34 3.8	0.57 4.9	0.45 4.3		0.07	0.09	1.25 T		5.36 13.4	0700 EST	