



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

OCTOBER BEGAN ON A COLD NOTE AND ENDED AS INDIAN SUMMER MOVED INTO THE REGION

October 2003 was a typical 2003 month - i.e. below normal temperatures with above normal precipitation. October was much quieter than September but still left its marks in the record books.

Cold air which moved into the region at the end of September was reinforced on the 2nd. The result was frost at many ACON stations on the 3rd along with some freezing temperatures. Light rains fell on the 4th. Amounts generally ranged from a few hundredths of an inch to a quarter of an inch. The heaviest amounts fell in Washington County where **Jim Vaughn** of **Smithsburg 2 NE** and **Greg Keefer** of **Hagerstown 1 E** reported almost an half inch.

The next 10 days were "quiet" and the mildest of the month. Daytime temperatures were generally in the 70's and precipitation was absent. Dense fog was reported by many observers on some of these mornings.

The first of three storm systems which effected the region this month occurred on the 14th and 15th. This system will be remembered by its strong, damaging winds. Some trees were uprooted and branches downed. Power outages were reported by some observers. The NWS issued high wind advisories. Wind gusts of 50 mph or higher were reported by the following ACON Observers: **Greg Keefer** of **Hagerstown 1 E** 59, **Herb Close** of **Manchester 1 S** 55, **Jim Vaughn** of **Smithsburg 2 NE** 55, **Ralph Hartsock** of **Westminster 4 SSE** 53, **Gary Galaher** of **Bear 2 SW DE** 53. Barometric pressures were in the 29.20's and 29.30's across the region, which is quite low for October. Rain, heavy at

times, fell from the afternoon of the 14th into the morning hours of the 15th. Amounts generally was in the 1.00" to 1.75" range. Drier air accompanied by strong, gusty northwest winds moved into the region on the 15th.

Cooler conditions moved into the region on the 16th and remained until the 25th. Light rains fell on the 17th, 18th, 21st, and 22nd.

Two ACON observers reported hail during the afternoon of the 22nd, **Marty Sharrow** of **Owings Mills** and **Jeff Stoudt** of **Laurel 2 E**. See observer comments for more details.

The coldest temperatures of the month occurred on the mornings of the 24th and 25th. A hard freeze was reported by many observers outside of urban areas.

Two major storms effected the region the last week of the month. Without these storms October's precipitation would have been below normal. Many regions reported a month's worth from the 26th to the 29th.

The first storm, a slow moving frontal system, brought heavy rains on the 26th and 27th. The heaviest rains fell from southwest of Baltimore to northeast of Baltimore where **Jeff Stoudt** of **Laurel 2 E** reported 3.59", **Lynn Albright** of **Fallston 2 NW** 3.16" and **Joe Manfre** of **Baltimore 2 SE** 3.13". Amounts of 2" or more fell in Central and Northeast Maryland and Northern Delaware.

The second storm was a coastal storm which occurred on the 28th and 29th. The heaviest rains fell in extreme southern Maryland and east of the Chesapeake Bay. Less than an inch fell west of Carroll County, Maryland. The heaviest rains observed by an

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	82
Smithsburg 2 NE	81
Baltimore 2 SE	80

MINIMUM TEMPERATURE

Davis 3 SE WV	21
Eagle Rock	23
Owings Mills	25

WARMEST AVG. TEMP.

Ridge	59.2
Baltimore 2 SE	58.5

COLDEST AVG. TEMP.

Davis 3 SE	46.1
Frostburg	47.7
Eagle Rock	47.8

MAXIMUM PRECIPITATION

Laurel 2 E	6.56
Olney 1 S	6.46
Fallston 2 NW	6.44

MINIMUM PRECIPITATION

Frostburg	2.37
LaVale	2.54
Eagle Rock	2.79

MAXIMUM SNOWFALL

Davis 3 SE WV	1.8
Eagle Rock	1.0

ACON observer was 1.66" by **John Zyla** of **Ridge** and 1.53" by **Dean Dey** of the **University of Delaware Research and Education Center** southwest of **Georgetown, DE**.

OBSERVER COMMENTS FOR OCTOBER 2003

Gary Gallaher of Bear 2 SW, DE

3rd - Record minimum temperature. Second earliest freezing temperature in station history.

14th - 29.22", a new record minimum barometric pressure for October. Peak wind gust of 53 MPH set a new record for October.

Nate Mullins of LaVale

3rd - Early season frost with a temperature of 32 degrees.

12th - Dense AM fog.

14th - Rain 4 PM to 10 PM, with heavy downpours 5:30 to 7 and gusty winds.

15th - Strong WNW winds gusting to 40—50 MPH. Trees and branches blown down and power outages occurred knocking the weather station off line and causing some data to be lost.

Dave Bryant of St Margarets

Cool and dry first week. Heavy rains and cool the last week.

Dan Hanson of Millersville 1 SE

15th - Barometric pressure of 29.29" a new October record. A wind gust of 39 MPH ties the maximum speed for October.

Jeff Stoudt of Laurel 2 E

8th - Fog, visibility 100 feet at morning commute time.

14th - Very heavy evening showers.

22nd - A brief shower at 1650 EST was almost entirely hail, 3/16' to 3/8". Usually when I observe hail, it's mixed with predominantly heavy rain.

26th / 27th - A deluge of 3.59" within 24 hours, the third over 3" this year.

Al Kreinik of Parkton 5 SW

27th - Occasional moderate / heavy rain during the day.

30th - Aurora Borealis visible in NW faint pink & blue / white shading from 6 to 7:30 PM.

Joe Manfre of Baltimore 2SE

1st - Mostly cloudy, cool, breezy, sprinkles.

15th - Cloudy early AM light rain, then P.C., cool, very windy.

27th - Cloudy, cool, AM thunderstorm, rain.

Marty Sharrow of Owings Mills

13th - Azure blue skies and delightful.

22nd - Instability showers, clouds and cooler. Hail at 1530.

Ralph Hartsock of Westminster 4 SSE

3rd - First freeze, sunny, cool.

15th - Overnight heavy rain - clearing - very windy 53 MPH.

23rd - Wet flakes.

24th - Cold early - sunny and chilly.

27th - Heavy rain, some flooding

Greg Klein of Westminster 5 SSE

27th to 29th - Very wet storms. 3.06" of rain.

Bobby Miller of Millers 4 NE

15th - Record low October barometric pressure of 29.26".

21st & 22nd - Thunder each day.

30th - Excellent view of aurora borealis from observation time until 7:15 PM. Red and pinkish most of the northern half of sky with some blue / white to NW.

Manuel Farfan of Frederick 4 N

9th - Light fog this morning and partly cloudy day. Warm again, at least for this time of the year.

14th - Mostly cloudy day with night rain, thunder and heavy downpours at times.

21st - Warmer and partly sunny with some rain showers and strong thunder from 9:30 - 11 PM.

Rob Cohen of Potomac 4 N

3rd -- Light frost, record minimum temperature.

8th - AM fog.

24th - Record minimum and frost.

30th - Record maximum

14th, 22nd, & 27th - Thunder each day.

Rich Giannola of Olney 1 S

14th - Thunder

Kevin Shaw of Gaithersburg 2 WNW

3rd - 30 degrees - earliest sub freezing temperature in station history. Old record was set on 10/4/96 when it was 31.

Joe Terry of Forest Glen

3rd - First frost - early this year.

8th - Very dense AM fog (visibility less than 1/16 mile). Did not dissipate until very late AM.

15th - Power out for ~ 30 minutes from strong wind gusts. Tree uprooted several blocks east of here blocking the entire road.

Washington Gas Light at Rockville

14th & 27th - Thunder each day.

Bill Hudelson of South Bowie

10th - Overcast, dense fog early morning.

14th - Overcast, rain evening, wind advisory, severe thunderstorm warning, thunderstorm 2230 hours.

Brian Smith of Oxon Hill

3rd - Light frost

31st - Aurora borealis in NNE sky 1934 to 1945.

Floyd Abell of Hollywood

14th - Late day and evening rain, heavy at times.

25th - Frosty morning.

John Zyla of Ridge

24th - First frost of the season

31st - Coldest average temperature, coldest minimum temperature, and lowest maximum temperature all station records for the month of October (9 years)

Greg Keefer of Hagerstown 1 E

3rd - Moderate frost and freeze, first of the season.

8th & 12th - Dense fog overnight and through late morning.

15th - Strong west winds overnight gusting to 45 mph. High winds all day long from WNW with numerous gusts past 50 mph. Numerous power outages and tree damage reported.

31st - Nice sunny warm Indian Summer day.

Jim Vaughn of Smithsburg 2 NE

2nd & 3rd - Record low daily maximum temperature set each day.

15th - Wind gust of 55 MPH set an October record.

ACON MD / DE / DC
OCTOBER 2003 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
<i>New Castle, Delaware</i>																									
Canavan, Jim	Wilmington 4 NNE	62.4	43.7	53.1	76	9	28	24	0	0	3				5.77	2.32	27	<u>50.72</u>	9	3	0.0	0.0	0.0	2400	
Gallaher, Gary	Bear 2 SW	64.2	42.1	53.2	79	9	26	24	0	0	4	53	W	14	4.79	1.83	27	52.36	10	3	0.0	0.0	0.0	2400	
NWS Wilmington	New Castle Co. Apt.	64.1	44.3	54.2	77	12	32	24+	0	0	2	45	WNW	15	4.39	1.47	27	47.03	10	2	0.0	0.0	0.0	2400	
U of D DE Climatologist	Newark Pearson Hall	64.2	45.8	55.0	79	8+	32	24	0	0	0	41		15	4.12	1.53	27	<u>46.27</u>	9	2				2400	
<i>Sussex, Delaware</i>																									
NWS Georgetown	Sussex Co. Airport	66.6	44.6	55.6	78	9	28	24	0	0	3	36	W	15	3.46	1.50	29	42.38	10	1				2400	
U of D Research & Ed Ct	Georgetown	66.6	44.5	55.6	78	8+	27	24	0	0	3				2.97	1.27	29	<u>48.49</u>	9	1				2400	
U of D Warrington Farm	Harbeson	66.6	43.2	54.9	78	8	27	24	0	0	3				<u>1.30</u>	0.41	24	<u>36.90</u>	11	0				2400	
<i>Allegany, Maryland</i>																									
Latta, Greg	Frostburg	57.7	37.7	47.7	72	9	27	3+	0	0	6				2.37	1.12	15	47.70	13	1	T	T	23	T	0700
Mullins, Nate	LaVale	60.9	41.1	51.0	74	8+	29	24	0	0	4				2.54	1.16	14	44.63	12	1	0.0	0.0	0.0	2400	
<i>Anne Arundel, Maryland</i>																									
Bryant, Dave	St. Margarets	65.5	47.8	56.7	79	12	35	24	0	0	0				5.18	2.12	27	53.41	7	2	0.0	0.0	0.0	2100-P 2400-T	
Hanson, Dan	Millersville 1 SE	64.7	41.2	53.0	78	12	27	24	0	0	4	39	WNW	15	3.67	1.64	14	55.65	8	2	0.0	0.0	0.0	2400	
Jug Bay Wetlands	Lothian	68.8	43.4	56.1	82	9+	28	24	0	0	4				4.91	1.30	27	54.33	16	4	0.0	0.0	<u>0.0</u>	0900	
NWS Baltimore	BWI Airport	65.8	44.4	55.1	78	12	29	24	0	0	2	45	W	15	5.82	1.99	27	53.09	8	3	0.0	0.0	0.0	2400	
Stoudt, Jeff	Laurel 2 E	65.5	43.7	54.6	78	8	30	25	0	0	2				6.56	2.45	27	61.52	8	3	0.0	0.0	0.0	2400	
<i>Baltimore, Maryland</i>																									
Kreinek, Al	Parkton 5 SW	63.3	41.2	52.3	77	9	29	24	0	0	4				6.19	2.65	27	52.34	10	3	0.0	0.0	0.0	2200	
Sharrow, Marty	Owings Mills 2 SE	62.7	41.3	52.0	74	8+	25	24	0	0	5				4.16	1.96	27	48.12	9	2	0.0	0.0	0.0	2400	
<i>Baltimore City, Maryland</i>																									
Manfre, Joe	Baltimore 2 SE	66.7	50.2	58.5	80	9+	37	3	0	0	0				5.99	2.12	27	53.75	10	3	0.0	0.0	0.0	1800	
Maryland Science Ctr	Baltimore Inner Harbor	66.2	49.4	57.8	80	9	37	24	0	0	0				5.70	2.50	27	50.19	9	2				2400	
<i>Carroll, Maryland</i>																									
Close Jr, Herb	Manchester 1 SW	63.2	43.5	53.4	77	8	30	24	0	0	1	55		15	5.75	1.74	27	53.15	13	2	0.0	0.0	0.0	2300	
Hartsock, Ralph	Westminster 4 SSE	68.0	42.2	55.1	76	9	28	24	0	0	2	53	WNW	15	5.28	2.08	27	49.75	9	2	T	T	23	T	2100
Klein, Greg	Westminster 5 SSE	59.7	42.5	51.1	73	9	29	24	0	0	1				5.37	2.07	27	49.84	10	2	0.0	0.0	0.0	2200	
Miller, Bobby	Millers 4 NE	63.5	42.7	53.1	76	9+	29	24	0	0	2	46		15	5.53	1.90	27	51.19	10	3	0.0	0.0	0.0	1800	
<i>Frederick, Maryland</i>																									
Farfan, Manuel	Frederick 4 N	63.9	41.9	52.9	76	9+	31	24+	0	0	2				4.52	1.26	14	52.87	11	2	0.0	0.0	0.0	2400	
<i>Garrett, Maryland</i>																									
Harvey, Rebecca	Eagle Rock	58.8	36.7	47.8	76	9	23	3	0	0	12				2.79	1.02	15	60.42	11	1	1.0	1.0	23	1.0	0800
<i>Harford, Maryland</i>																									
Albright, Lynn	Fallston 2 NW	65.0	40.1	52.6	78	9	27	24	0	0	4				6.44	2.65	27	58.53	11	2	0.0	0.0	0.0	2400	
<i>Howard, Maryland</i>																									
Giannola, Rich	Laurel JHU / APL	62.5	43.3	52.9	75	8+	32	24	0	0	1	42		15	4.33	1.53	27	52.30	9	2	0.0	0.0	0.0	2400	

ACON MD / DE / DC
OCTOBER 2003 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>Montgomery, Maryland</i>																									
Cohen, Rob	Potomac 4 N	64.2	44.5	54.4	75	8+	30	24	0	0	1				4.74	2.27	27	53.66	9	1	0.0	0.0	0.0	2100	
Giannola, Rich	Oiney 1 S	<u>63.6</u>	<u>44.1</u>	<u>53.9</u>	77	8	31	24	0	0	1				6.46	2.00		53.85	6	3	0.0	0.0	0.0	2400	
Roth, David	Montgomery Village 1SW	64.6	45.6	55.1	75	8+	32	24	0	0	1	23	15		5.12	1.88	27	54.32	12	2	0.0	0.0	0.0	2400	
Rossen, Stan	Glenmont 1 NNE	66.5	43.5	55.0	79	8	30	24	0	0	2				4.62	1.88		54.54	9	2	0.0	0.0	0.0	2400	
Scafide, Tony	Bethesda	65.1	43.7	54.4	76	9	30	24	0	0	1	21	15		2.79	1.40	27	<u>46.27</u>	8	2				2400	
Shaw, Kevin	Gaithersburg 2 WNW	63.2	41.5	52.4	74	9	27	24	0	0	5				5.35	1.78	27	52.72	9	3	0.0	0.0	0.0	2400	
Terry, Joe	Forest Glen	66.7	44.0	55.4	79	8	30	24	0	0	1	35	SW	15	4.87	1.60	27	59.29	10	2	0.0	0.0	0.0	2400	
Wash Gas Light	Rockville 1 NE	<u>65.8</u>	<u>44.0</u>	<u>54.9</u>	80	8+	32	24	0	0	1				<u>4.09</u>	1.57	27	<u>44.15</u>	9	2	0.0	0.0	0.0	2400	
<i>Prince Georges, Maryland</i>																									
Hudelson, Bill	South Bowie	64.5	44.7	54.6	76	9	30	24	0	0	1	37	NW	15	4.50	1.46	27	60.82	8	1	0.0	0.0	0.0	2400	
Smith, Brian	Oxon Hill	66.1	46.7	56.4	79	12	32	24	0	0	1				3.53	1.16	27	56.45	8	1	0.0	0.0	0.0	2000	
<i>St. Marys, Maryland</i>																									
Abell, Floyd	Hollywood	67.6	46.8	57.2	79	8+	31	24	0	0	1	37	15		4.00	1.42	27	52.04	8	1	0.0	0.0	0.0	2400	
Van Wie, Michael	Oraville																							2400	
Zyla, John	Ridge	67.8	50.5	59.2	77	9+	36	24	0	0	0	22	NE	2+	2.97	1.08	29	51.11	8	1	0.0	0.0	0.0	2400	
<i>Washington, Maryland</i>																									
Keefer, Greg	Hagerstown 1 E	63.6	42.3	53.0	77	12	30	24	0	0	2	59	NW	15	3.61	1.11	14	54.69	9	2	0.0	0.0	0.0	2400	
Vaughn, Jim	Smithsburg 2 NE	64.0	43.5	53.8	81	9	30	3	0	0	1	55	NW	15	4.47	1.42	14	61.05	13	2	T	T	22	T	2000
<i>Wicomico, Maryland</i>																									
NWS Salisbury	Wicomico Co. Apt	67.0	41.5	54.3	79	8	25	24	0	0	4	51	WNW	14	4.15	1.73	29	47.67	12	1	0.0	0.0	0.0	2400	
Rickell, Robert	Hanover 2 S, PA																	<u>20.80</u>						2100	
<i>Arlington, Virginia</i>																									
NWS Washington Nation	National Airport	66.0	48.9	57.5	78	12	37	24	0	0	0	47	NNW	15	3.93	1.27	27	50.75	6	2	0.0	0.0	0.0	2400	
<i>Loudon, Virginia</i>																									
NWS Washington Dulles	Dulles Airport	64.9	42.6	53.8	78	12	28	24	0	0	3	43	W	15	4.63	1.89	27	54.86	7	2	0.0	0.0	0.0	2400	
<i>Tucker, West Virginia</i>																									
Leshner, Dave	Davis 3 SE WV	54.5	37.6	46.1	69	31	21	24	0	1	7				3.48	0.81	14	61.66	11	0	1.8	1.2	23	1.8	1900
SECTION AVERAGE		64.4	43.6	54.2											4.48										

NOTES:
M OR UNDERLINE= MISSING DATA
> = INCLUDED IN NEXT DAYS DATA

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 1/13/04

ACON MD / DE / DC
OCTOBER 2003 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	63 41	56 40	57 33	62 42	59 39	60 37	66 37	71 49	76 53	69 55	62 53	73 59	68 50	69 47	61 51	66 42	56 46	53 41	62 41	60 37	70 49	65 48	46 32	53 28	60 32	69 53	66 60	54 37	55 48	59 36	68 40	62.4 43.7	2400 EDT
BEAR 2 SW, DE GALLAHER	60 42	57 39	58 32	65 47	61 38	64 37	67 38	74 47	79 49	69 51	72 57	76 58	71 47	68 45	62 46	56 38	57 45	65 39	65 40	64 34	70 54	61 42	46 29	55 26	64 29	72 59	65 46	57 35	56 43	62 35	72 37	64.2 42.1	2400 EDT
WILMINGTON, DE NWS NEW CASTLE CO APT	62 48	57 41	58 34	64 50	62 41	64 37	66 39	72 51	76 51	70 53	75 56	77 56	72 50	69 48	63 46	67 44	57 46	58 43	64 45	62 38	71 55	58 37	47 33	55 32	61 32	72 58	66 46	56 38	55 45	61 38	69 41	64.1 44.3	2400 EST
U of D DE Climatologist Newark Pearson Hall	61 47	57 44	58 38	63 47	62 42	63 41	66 41	74 54	79 55	69 56	74 56	79 54	72 67	67 62	67 45	58 47	59 43	64 45	64 40	61 51	69 40	59 45	60 36	45 32	55 34	62 58	71 46	M	56 47	62 47	71 43	64.2 45.8	2400 EDT
GEORGETOWN, DE NWS SUSSEX CO APT	66 44	62 39	60 37	69 44	65 42	67 47	69 44	77 50	78 52	71 55	67 59	76 57	72 48	71 47	65 45	68 42	63 45	59 38	67 37	67 40	75 56	63 41	49 31	56 28	66 32	73 62	73 51	54 47	58 43	65 38	73 42	66.6 44.6	2400 EST
GEORGETOWN, DE UofD RESEARCH & ED CTR	66 44	62 39	61 34	69 44	65 42	64 43	69 44	78 50	78 51	71 53	65 59	76 56	73 48	71 47	65 44	68 45	63 39	59 37	66 39	67 57	76 43	66 32	48 32	56 27	67 61	72 51	73 49	54 45	58 38	66 43	74 44	66.6 44.5	2400 EST
HARBESON, DE UofD WARRINGTON FARM	67 43	62 39	59 35	69 40	65 40	65 44	69 42	78 49	77 50	69 52	64 59	77 56	73 47	70 46	65 45	63 40	58 43	66 39	68 54	76 42	65 30	49 27	56 30	65 62	71 51	73 47	59 41	66 36	69 41	66 41	73 43	66.6 43.2	2400 EST
FROSTBURG LATTA	57 39	49 36	46 27	55 27	49 37	56 36	61 36	65 36	72 44	67 49	70 51	66 49	70 42	70 42	60 44	51 44	61 44	47 35	51 33	57 36	69 36	67 42	44 31	37 29	53 31	61 34	62 47	47 31	53 33	51 34	65 34	57.7 37.7	0700 EDT
LAVALLE MULLINS	58 44	56 38	55 32	53 42	59 41	60 37	69 38	74 45	67 46	74 54	68 57	74 51	73 47	74 44	56 48	56 40	60 43	51 37	56 45	60 37	68 45	68 45	52 35	43 29	54 32	62 47	54 38	56 33	65 37	70 32	60.9 41.1	2400 EDT	
ST MARGARETS BRYANT	65 51	61 44	59 39	64 50	65 46	64 47	69 50	74 56	76 57	72 60	74 55	79 51	70 50	68 53	65 48	67 46	62 51	61 44	66 45	64 45	75 54	63 47	53 36	56 35	61 41	72 57	64 48	54 42	55 45	66 42	68 47	64.7 47.8	2400 EDT
MILLERSVILLE 1SE HANSON	60 43	57 37	58 30	66 42	64 39	64 40	69 40	76 48	75 51	69 50	74 57	78 51	74 48	74 46	66 42	63 39	69 44	59 37	60 37	65 36	63 49	73 42	60 31	49 27	56 61	61 56	64 42	54 33	55 39	66 38	68 41	64.7 41.2	2400 EDT
LOTHIAN JUG BAY	71 43	63 38	64 32	64 38	71 41	71 41	71 42	82 50	82 54	78 50	72 57	76 50	82 49	77 48	69 60	66 39	71 43	64 42	64 39	71 42	77 36	63 48	55 32	61 28	66 31	75 36	66 44	66 45	54 37	54 41	69 41	68.8 43.4	0900 EDT
BALTIMORE NWS BWI APT	61 46	57 42	62 38	69 47	65 45	68 47	70 50	76 50	77 52	70 51	75 56	78 50	73 47	66 44	63 47	69 44	59 47	60 40	66 43	66 40	73 51	60 43	49 34	57 29	64 31	72 60	64 44	55 37	56 39	66 36	73 39	65.8 44.4	2400 EST
LAUREL 2 E STOUDT	58 48	57 41	62 34	68 45	62 40	67 39	69 41	78 49	77 53	69 54	77 58	77 52	72 50	64 48	64 47	72 42	61 40	60 42	64 35	68 51	72 42	57 34	50 31	57 30	66 58	70 44	64 36	55 44	56 36	64 38	73 41	65.5 43.7	2400 EST
PARKTON 5SW KREINIK	57 42	55 37	58 32	62 46	61 36	64 37	67 37	75 46	77 49	68 51	73 50	76 41	71 47	63 46	61 48	69 38	54 46	50 40	64 42	66 35	73 52	58 42	46 34	57 29	62 32	69 57	62 43	56 38	65 34	72 39	63.3 41.2	2200 EDT	
OWINGS MILLS 2SE SHARROW	60 45	54 38	60 32	62 44	60 37	63 36	68 40	74 48	74 50	67 55	72 50	74 48	70 47	59 46	67 46	56 37	56 42	62 38	62 39	69 34	62 50	46 42	46 30	53 25	61 30	68 57	63 45	54 32	52 41	60 33	67 38	62.7 41.3	2400 EDT
BALTIMORE 2SE MANFRE	62 53	59 46	63 37	69 48	64 46	68 48	71 51	80 57	80 59	71 60	75 60	80 56	74 56	66 55	62 48	71 53	61 48	60 49	65 46	64 54	74 48	60 38	49 38	58 42	64 61	74 57	65 42	59 48	57 44	67 48	70 48	66.7 50.2	1800 EDT
BALT INNER HARBOR MD SCIENCE CENTER	61 52	58 46	62 41	68 48	63 47	68 49	70 51	77 57	80 58	70 60	75 60	78 59	73 56	67 56	63 50	71 47	61 49	60 47	65 50	64 46	74 53	60 45	49 37	58 37	64 61	74 47	65 42	59 47	57 43	67 48	70 48	66.2 49.4	2400 EST
MANCHESTER 1SW CLOSE	59 44	55 37	58 33	64 41	62 41	64 42	67 42	77 56	76 55	69 50	72 50	76 46	72 46	65 43	59 45	68 43	53 40	59 41	63 39	75 51	56 33	67 30	61 36	57 55	61 41	67 36	55 41	52 36	63 38	70 47	63.2 43.5	2300 EDT	
WESTMINSTER 4 SSE HARTSOCK	61 46	56 39	54 30	63 45	59 38	61 35	67 38	72 46	76 49	72 53	74 55	72 48	66 47	64 46	59 44	67 46	58 46	57 39	61 40	60 36	72 50	64 42	48 33	54 28	59 34	69 54	63 45	55 33	53 44	59 34	68 41	62.7 42.2	2100 EDT
WESTMINSTER 5 SSE KLEIN	60 44	52 39	53 33	61 41	56 40	59 38	64 40	68 49	73 52	68 54	71 49	65 47	63 48	55 42	60 44	55 39	54 41	58 38	58 50	70 43	56 33	45 29	51 34	65 53	60 42	52 34	51 45	60 32	51 41	56 38	65 42	59.7 42.5	2200 EDT
MILLERS 4NE MILLER	59 44	54 40	57 32	61 43	61 40	63 36	68 37	75 50	76 48	72 53	73 55	76 50	72 48	66 47	59 53	65 40	57 46	58 41	63 41	64 34	72 50	68 45	46 34	53 29	59 34	64 52	57 48	53 33	53 44	64 34	71 43	63.5 42.7	1800 EDT
FREDERICK 4 N FARFAN	59 46	55 41	58 33	61 41	62 39	63 38	68 42	75 47	76 48	72 51	72 53	76 45	71 48	65 46	60 40	68 46	55 40	58 40	63 44	65 37	76 48	57 44	48 33	56 31	63 31	67 57	64 40	57 33	56 39	64 34	71 38	63.9 41.9	2400 EDT
EAGLE ROCK HARVEY	58 34	48 32	46 23	60 28	49 38	54 38	61 38	69 44	76 48	70 50	70 50	68 48	70 40	70 40	50 40	60 40	50 40	50 40	50 32	59 32	69 36	66 42	40 40	34 28	59 24	69 30	68 40	42 30	58 32	49 40	60 40	58.8 36.7	0800 EDT

**ACON MD / DE / DC
OCTOBER 2003 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	
FALLSTON 2 NW	61	58	59	66	63	66	69	75	78	69	73	76	71	66	62	69	59	60	64	63	71	59	48	57	61	72	72	59	56	63	69	65.0	2400	
ALBRIGHT	42	39	31	41	37	35	36	46	49	51	50	51	46	45	38	37	44	38	39	34	51	37	30	27	31	58	39	33	35	34	38	40.1	EDT	
LAUREL JHU / APL	56	52	57	65	59	64	69	75	75	66	70	75	69	64	58	67	57	56	62	65	70	55	46	54	61	68	61	54	54	64	71	62.5	2400	
GIANNOLA	47	40	34	42	42	40	43	49	51	53	55	52	49	47	47	45	45	39	40	37	54	41	34	32	33	57	42	35	43	35	40	43.3	EDT	
POTOMAC 4N	58	55	58	64	62	65	68	75	74	72	73	75	71	64	62	68	60	58	64	65	72	65	50	55	62	70	64	52	54	64	72	64.2	2100	
COHEN	48	41	34	45	41	44	46	52	54	45	60	50	50	50	48	40	47	45	42	40	51	46	38	30	34	58	47	35	42	36	42	44.5	EDT	
OLNEY 1 S	56	55	>	>	>	65	>	77	76	74	>	>	76	62	61	68	58	58	64	68	70	61	48	56	63	69	62	54	55	66	69	63.6	2400	
GIANNOLA	48	41	>	>	>	34	>	45	55	54	>	>	50	51	47	42	47	42	42	40	55	43	36	31	37	58	44	37	41	37	46	44.1	EDT	
MONTGOMERY VILLAGE	59	56	58	66	62	65	69	75	75	71	73	75	71	65	62	69	60	58	65	66	73	59	50	56	62	69	66	56	56	65	70	64.6	2400	
ROTH 1SW	50	41	35	48	41	42	45	52	55	54	59	51	52	51	48	42	48	44	46	40	57	45	37	32	38	59	45	36	42	37	43	45.6	EDT	
GLENMONT 1NNE	68	56	63	70	65	69	73	79	76	70	73	78	74	64	64	72	60	60	67	70	73	60	49	59	65	71	64	55	56	68	72	66.5	2400	
ROSSEN	43	38	33	46	40	42	44	50	52	52	57	49	50	49	43	39	46	42	43	39	56	44	34	30	32	59	43	35	41	36	40	43.5	EST	
BETHESDA	60	58	60	66	65	67	70	75	76	72	73	75	72	66	63	68	61	60	65	65	74	59	51	57	62	71	65	56	57	64	70	65.1	2400	
SCAFIDE	48	38	33	44	41	43	44	51	54	54	56	50	49	50	45	40	45	41	41	39	52	42	35	30	36	56	42	35	41	36	44	43.7	EDT	
GAITHERSBURG 2WNW	60	55	58	64	60	64	68	73	74	73	71	73	69	65	61	67	59	58	65	65	71	56	49	54	61	68	62	53	54	61	67	63.2	2400	
SHAW	46	40	30	45	37	40	42	47	50	52	54	47	47	49	43	36	45	40	41	37	50	40	32	27	31	56	40	32	39	33	38	41.5	EDT	
FOREST GLEN	58	58	61	68	67	69	72	79	78	72	76	78	75	66	65	71	61	62	68	69	74	60	52	59	63	71	64	56	58	67	71	66.7	2400	
TERRY	46	39	34	48	41	43	44	52	54	53	57	50	49	49	43	39	46	41	42	39	56	43	34	30	35	58	42	36	40	36	44	44.0	EDT	
ROCKVILLE 1NE	59	57	60	67	63	67	72	80	80	71	75	76	74	61	M	70	57	59	65	M	M	74	49	57	63	71	65	56	57	64	73	65.8	2400	
WASH GAS LIGHT	46	41	34	46	40	48	44	48	44	55	57	51	53	57	M	44	47	40	43	M	M	M	35	32	33	57	41	34	41	35	42	44.0	EDT	
SOUTH BOWIE	60	58	59	66	63	66	70	75	76	70	74	75	70	65	63	67	60	59	64	64	72	60	49	56	62	72	64	54	56	63	69	64.5	2400	
HUDELSON	46	41	34	43	42	44	45	52	54	54	60	53	51	50	46	42	46	41	41	40	52	45	35	30	34	58	46	38	42	37	43	44.7	EDT	
OXON HILL	60	57	60	70	66	60	72	77	76	70	75	79	73	67	64	70	62	61	67	68	74	60	52	58	64	71	65	55	59	66	72	66.1	2000	
SMITH	48	44	34	49	44	47	47	54	56	54	58	54	54	51	48	44	49	43	42	42	55	46	38	32	36	60	48	39	46	40	46	46.7	EDT	
HOLLYWOOD	62	61	61	70	68	69	71	79	79	69	70	78	74	71	66	70	62	61	68	70	77	67	53	58	66	74	69	53	58	68	74	67.6	2359	
ABELL	46	38	35	47	44	47	49	55	55	56	61	56	52	53	46	44	48	41	41	43	56	46	35	31	37	63	49	48	43	40	46	46.8	EDT	
ORAVILLE																																		2400
VAN WIE																																		EDT
RIDGE	65	64	61	73	70	70	72	76	77	70	66	77	71	71	69	71	66	61	70	69	77	65	55	59	65	73	70	54	58	66	70	67.8	2400	
ZYLA	53	45	41	51	49	55	54	60	62	62	57	59	56	56	49	49	48	46	45	50	50	44	38	36	42	64	50	49	45	48	53	50.5	EDT	
HAGERSTOWN 1E	57	54	57	54	63	64	69	74	75	69	77	71	64	60	66	55	57	64	65	76	59	50	56	62	66	62	56	55	66	74	63.6	2400		
KEEFER	43	38	32	42	38	37	40	46	50	52	53	51	46	49	49	40	46	40	44	37	54	43	36	30	36	55	39	33	38	34	40	42.3	EDT	
SMITHSBURG 2 NE	60	55	56	56	61	65	69	74	81	73	69	76	71	65	59	65	55	60	64	64	77	58	48	56	61	67	64	60	55	64	77	64.0	2000	
VAUGHN	45	39	30	45	40	37	41	48	53	57	49	49	46	53	39	45	45	42	44	40	58	43	33	33	42	56	38	33	44	36	45	43.5	EDT	
SALISBURY	66	63	61	69	66	68	72	79	78	71	64	75	72	70	67	68	67	59	66	68	75	63	49	56	66	72	73	56	60	65	73	67.0	2400	
NWS WICOMICO CO APT	40	33	33	38	40	42	43	47	49	49	59	57	43	43	37	36	41	33	32	37	58	41	28	25	28	63	51	49	38	35	38	41.5	EST	
HANOVER 2 S, PA																																		2100
RICKELL																																		EDT
WASH NATIONAL	60	58	59	69	65	68	71	75	77	69	74	78	73	67	64	69	63	61	68	66	74	61	52	58	62	71	65	56	59	65	70	66.0	2400	
NWS ASOS	52	43	39	50	48	49	50	55	58	56	61	55	56	56	49	45	50	46	47	45	56	46	41	37	41	60	47	42	46	42	47	48.9	EST	
WASH DULLES	59	56	58	66	65	66	70	77	76	72	70	78	72	64	62	69	59	59	66	66	73	59	50	56	63	67	64	54	58	66	73	64.9	2400	
NWS ASOS	48	35	30	44	41	45	43	48	50	52	57	48	48	47	43	40	44	39	41	37	54	44	32	28	34	57	45	34	38	35	40	42.6	EST	
DAVIS 3 SE WV	42	40	51	44	49	54	63	68	62	62	61	61	63	64	50	56	49	45	54	62	61	51	32	46	66	63	52	48	41	63	69	54.5	1900	
LESHER	33	30	22	37	36	37	40	45	48	51	49	46	37	46	36	38	36	30	38	33	51	31	26	21	34	52	33	28	35	34	51	37.6	EST	

**ACON MD / DE / DC
OCTOBER 2003 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				0.06								0.02		1.48			0.25					0.04				0.10	2.32	0.10	1.40			5.77 0.0	2400 EDT		
BEAR 2 SW, DE GALLAHER	T			0.02							T			1.09	0.09		0.05	0.01			0.05	T				0.17	1.83	0.47	1.01			4.79 0.0	2400 EDT		
WILMINGTON , DE NWS NEW CASTLE CO APT	T			0.02								0.01		1.09	0.09	T	0.08	T			T	0.02				0.14	1.47	0.65	0.82			4.39 0.0	2400 EST		
U of D DE Climatologist Newark Pearson Hall				0.03										1.07	0.11		0.09	0.01								0.22	1.53	0.39	0.67			4.12 -	2400 EDT		
GEORGETOWN, DE NWS SUSSEX CO APT				T								0.20	0.01	0.65	0.07		0.07				T	0.10				0.13	0.42	0.31	1.50			3.46 -	2400 EST		
GEORGETOWN, DE UofD RESEARCH & ED CTR												0.12		0.57	0.18		0.07					0.04				0.10	0.36	0.26	1.27			2.97 0.0	2400 EST		
HARBESON, DE UofD WARRINGTON FARM												0.01		0.01		0.01						0.01		0.41		0.11	0.15	0.14	0.21	0.15	0.09	1.30 0.0	2400 EST		
FROSTBURG LATTA	0.11	0.03		0.06	0.06									1.12	T	0.02	0.20					0.08	0.10 T			0.21	0.26	0.06	0.06			2.37 T	0700 EDT		
LAVALE MULLINS	0.09	T		0.06										1.16	0.04		0.21					0.03	0.11			0.20	0.54	0.01	0.08	0.01			2.54 0.0	2400 EDT	
ST MARGARETS BRYANT														0.80	0.86		T					0.13				0.03	2.12	0.05	1.19			5.18 0.0	2100 EDT		
MILLERSVILLE 1SE HANSON				0.01										1.64	0.08							0.09	0.01			0.40	1.18		0.26			3.67 0.0	2400 EDT		
LOTHIAN JUG BAY	0.01	0.01	0.01					0.01		0.01		0.02		0.01	1.21		0.01				0.01	0.03		0.01		1.30	1.07	1.17	0.02			4.91 0.0	0900 EDT		
BWI NWS ASOS	T			0.01							T			1.53	T		T				0.03	0.04				1.20	1.99	0.25	0.77			5.82 0.0	2400 EST		
LAUREL 2 E STOUDT	T			0.03										1.62	T		T					0.03	0.13			1.14	2.45	0.29	0.87			6.56 0.0	2400 EST		
PARKTON 5SW KREINIK	0.01			0.26										0.03	1.65		0.16	0.08				0.25	0.06				2.65		1.04				6.19 0.0	2200 EDT	
OWINGS MILLS 2SE SHARROW	T			0.18										1.04	0.05		0.02					0.03				0.04	1.96	0.03	0.81				4.16 0.0	2400 EDT	
BALTIMORE 2SE MANFRE	T			0.04										1.70	0.05	T	0.01					0.02	0.03			1.01	2.12	0.22		0.79			5.99 0.0	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER				0.03										1.38			0.01					0.01	0.06			0.74	2.50	0.22	0.75				5.70 -	2400 EST	
MANCHESTER 1SW CLOSE	0.04			0.33										1.54	0.18		0.18	0.02				0.22	0.09	0.01		0.32	1.74	0.10	0.98				5.75 0.0	2300 EDT	
WESTMINSTER 4 SSE HARTSOCK	0.02			0.23										0.10	1.76		0.08	0.04				0.06	T T			2.08		0.91					5.28 T	2100 EDT	
WESTMINSTER 5 SSE KLEIN	0.04			0.22										1.52	0.29		0.14	0.02				0.08					2.07	0.04	0.95					5.37 0.0	2200 EDT
MILLERS 4NE MILLER	0.03			0.34	T									0.08	1.57		0.14	0.10				0.33	0.01				1.90	T	1.03					5.53 0.0	1800 EDT
FREDERICK 4 N FARFAN	0.08			0.38										1.26	0.02		0.20					0.09	0.05				0.22	1.16	0.47	0.59				4.52 0.0	2400 EDT
EAGLE ROCK HARVEY	0.22 T			0.15	0.09										1.02		T	0.35				0.03	0.23 1.0	T T			0.20	0.32	0.11	0.07			2.79 1.0	800 EDT	

**ACON MD / DE / DC
OCTOBER 2003 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	
FALLSTON 2 NW ALBRIGHT	0.04			0.18										1.86	0.10		0.04	0.02			0.01	T				0.51	2.65	0.20	0.83			6.44 0.0	2400 EDT	
LAUREL JHU / APL GIANNOLA				0.06										1.23	0.03		T				0.02	0.06				0.41	1.53	0.21	0.78			4.33 0.0	2400 EDT	
POTOMAC 4N COHEN				0.13										0.61	0.65		0.02					0.04				0.10	2.27	0.01	0.91			4.74 0.0	2100 EDT	
OLNEY 1 S GIANNOLA	T			0.12										>	1.33		2.00				>	0.10				>	1.93	>	0.98			6.46 0.0	2400 EDT	
MONTGOMERY VILLAGE ROTH 1SW	0.02			0.22										1.05	0.04		0.02	0.01			0.06	0.08				0.91	1.88	0.07	0.76			5.12 0.0	2400 EDT	
GLENMONT 1NNE ROSSEN				0.06										1.16			0.01				0.03	0.03			T	0.44	1.88	0.18	0.83			4.62 0.0	2400 EST	
BETHESDA SCAFIDE				0.07			0.01			0.01				1.13	0.01		0.01									0.15	1.40					2.79 0.0	2400 EDT	
GAITHERSBURG 2WNW SHAW	T			0.22										1.27			0.01				0.05	0.04				1.14	1.78	0.12	0.72			5.35 0.0	2400 EDT	
FOREST GLEN TERRY	T			0.03										1.39	0.01		0.01	T			0.03	0.05				0.68	1.60	0.23	0.84			4.87 0.0	2400 EDT	
ROCKVILLE 1NE WASH GAS LIGHT				0.12										1.03	M		0.01				0.01	0.05				0.51	1.57	0.13	0.66			4.09 0.0	2400 EDT	
SOUTH BOWIE HUDELSON				T							T			0.93	0.09		0.01					0.07				0.66	1.46	0.30	0.98			4.50 0.0	2400 EDT	
OXON HILL SMITH				T										0.83	0.01		0.01				T	0.03				0.42	1.16	0.23	0.84			3.53 0.0	2000 EDT	
HOLLYWOOD ABELL				0.01						T	0.11			0.91	0.09		T					T				0.04	1.42	0.57	0.85			4.00 0.0	2359 EDT	
ORAVILLE VAN WIE																																		2400 EDT
RIDGE ZYLA											0.48			0.44	0.13		0.02									0.03	0.21	0.58	1.08			2.97 0.0	2400 EDT	
HAGERSTOWN 1E KEEFER	0.12			0.44										1.11			0.18				T	0.08				0.15	1.02	0.03	0.48			3.61 0.0	2400 EDT	
SMITHSBURG 2 NE VAUGHN	0.16			0.46	0.01					0.01		0.04		1.42			0.27	0.02			T	0.02				0.23	1.14	0.21	0.48			4.47 T	2000 EDT	
SALISBURY NWS WICOMICO CO APT				T						0.01	0.27	0.02		0.67	0.08		0.11					0.04		0.01		0.13	0.68	0.40	1.73			4.15 0.0	2400 EST	
HANOVER 2 S, PA RICKELL																																		2100 EDT
WASH NATIONAL NWS ASOS				T							T			1.21			T				T	0.05				0.45	1.27	0.24	0.71			3.93 0.0	2400 EST	
WASH DULLES NWS ASOS	T			0.06										1.52			0.01				T	T				0.43	1.89	0.10	0.62			4.63 0.0	2400 EST	
DAVIS 3 SE WV LESHER	0.25 T	T T		0.48					T	T		T		0.81	0.35 T		0.20	0.02				0.33 0.6	0.09 1.2			0.13	0.64		0.18 T			3.48 1.8	1900 EST	