



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

QUITE HUMID WITH NUMEROUS THUNDER- STORMS, SOME SEVERE

August 2003 will be most remembered by its numerous thunderstorms. Some of these storms brought heavy rains and damaging winds. A side effect of these storms was the high humidity.

Precipitation this month averaged close to normal to above normal despite the unusual high number of days that precipitation occurred. Counting all stations (including NWS) in this report there were 672 observation days where measurable rain fell. 1" or more fell on 38 observation days.

The high humidity was a major reason that the 2003's average minimum temperature of 67.6 was higher than 2002's 67.0. **Jeff Stoudt** of **Laurel 2 E** comment summed the temperatures this month: "A persistence of low heat and a lack of both extreme heat and cool."

August began on a wet note. Measurable rain fell on every one of the first 19 days at some station throughout the two state region. Most daily amounts from the scattered showers and thunderstorms were less than 0.50". There were isolated heavy downpours. Over an inch fell on the 1st, 3rd, 5th, 9th, 11th, 13th, 16th, and the 17th. **Jim Canavan** of **Wilmington 4 NNE** reported the heaviest daily amount of 3.07" on the afternoon of the 11th. Flash flooding occurred in Northwest Wilmington and its nearby Western Suburbs. Also on the 11th **Jim Vaughn** of **Smithsburg 2 NE** observed 2.57". 2.18" fell at the **University of Delaware Research and Education Center** southwest of **Georgetown DE** on the 16th. Other daily amounts of nearly two inches were reported by the following **ACON Observers**: **Herb Close** of **Manchester 1 SW** 1.93" on the 11th, **John Zyla** of **Ridge** 1.92" on the 16th, **Dave Bryant** of **St. Margarets** 1.91" on

the 9th, and **Lynn Albright** of **Fallston 2 NW** 1.90" on the 16th.

90 degree temperatures during the first half of the month were almost non-existent. The maximum temperatures were generally in the 80's while the minimum temperatures were in the 60's and 70's. Temperatures in the lower 90's occurred on the 14th, 15th, and 16th. Dew points were very high. **Manuel Farfan** of **Frederick 4 N** and **Greg Keefe** of **Hagerstown 1 E** both reported dew points in the mid 70's and a heat index of 101 degrees on the 14th. 90 degree temperatures returned on the 21st and lasted for two days. The warmest day of the month was the 22nd.

A cold front accompanied by showers and thundershowers on the 23rd replaced a hot, humid air mass with cool dry Canadian air. Maximum temperatures on the 24th were in the 70's to lower 80's after a morning where the minimum temperatures fell to the low to mid 50's.

This cool pleasant air mass was short lived. Late in the afternoon of the 26th severe thunderstorms moved through the region causing many power outages. **Dan Hanson's** station at **Millersville 1 SE** was damaged by a power surge. 1/2" hail was reported by **Jim Vaughn** of **Smithsburg 2 NE**. **Joe Terry** of **Forest Glen** reported a very impressive rapidly moving arc cloud at the leading edge of the storm.

Strong thunderstorms moved through on the 27th brought more power outages. **Joe Terry** of **Forest Glen** reported that the sky was the darkest he has seen in years.

90 degree temperatures made their final appearance this month on the 26th in southern Maryland and then spread

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	95
Baltimore 2 SE	95
Fallston 2 NW	95
Mont. Village 1 SW	95
Ridge	95
Smithsburg 2 NE	95

MINIMUM TEMPERATURE

Eagle Rock	48
Frostburg	49

WARMEST AVG. TEMP.

Baltimore 2 SE	80.1
Ridge	78.5

COLDEST AVG. TEMP.

Frostburg	69.1
Eagle Rock	70.0

MAXIMUM PRECIPITATION

Wilmington 4 NNE DE	8.76
UofD Res Ctr G'town DE	8.42
South Bowie	8.50

MINIMUM PRECIPITATION

Baltimore 2 SE	2.89
Olney 1 S	3.06

northwards into Central and Eastern Maryland and Delaware by the 28th. A cold front accompanied by showers and thunderstorms, some with brief heavy rains, moved across the region the afternoon of the 30th. It brought an end to the very muggy conditions and ushered in much cooler temperatures. Maximum temperatures on the 31st were in the mid to upper 70's.

HERB CLOSE OF MANCHESTER 1 SW MARYLAND IS HOLDING HIS ANNUAL CHRISTMAS PARTY ON SATURDAY, DECEMBER 6, 2003 BEGINNING AT 2PM. RSVP TO HERB BEFORE THANKSGIVING. ALL ACON MEMBERS ARE WELCOME.

OBSERVER COMMENTS FOR AUGUST 2003

Jim Canavan of Wilmington 4 NNE

11th - 3.07" rain.

Gary Gallaher of Bear 2 SW, DE

Humid month with numerous thundershowers. Average minimum temperatures tied for August's 2nd warmest in 37 years.

Summer 2003: Was the 3rd wettest of 35 summers. Measurable precipitation fell on a record number of days (49) breaking the old record of 45 days set in 2000. Temperature rose to 90 or above on 14 days, average is 22 days. Avg Max 82.8 (-1.5), Avg Min 64.7 (+0.8), Avg Temp 73.8 (-0.4), Precip 16.77 (+5.47)

Greg Latta of Frostburg

28th - Hail reported during the previous 24 hours ending at obs time (7 AM).

Nate Mullins of LaVale

5th - Some strong thunderstorms between 5-7 PM. Intense lightning and quick heavy downpours. The brunt of the storms were to the east with minor street flooding reported in the Cumberland area.

26th & 27th - Strong, severe storms in area. Damaging winds reported in the Frostburg area on the 26th and hail reported in the southwestern portion of LaVale on the 27th.

Dave Bryant of St Margarets

Very humid month. The mid-day dew point averaged 73.3 degrees during the first three weeks and 71.0 the last week.

Summer 2003: Nine (9) 90 degree days. Last year 47 days.

Dan Hanson of Millersville 1 SE

August brought several intense storms. The severe storm that hit on the 26th did a number on the station including damaging both the Heathkit ID-5001 and the PC logging the data. The heaviest winds were just a few miles south of the station in Crofton and Bowie. A gust of 39 MPH was recorded before the lethal power surge hit.

Jeff Stoudt of Laurel 2 E

Temperatures: A persistence of low heat. A lack of both extreme heat and cool. **Precipitation:** Still a large number of days with some rain like recent months, but generally "nickel and dime" amounts. No calendar day nor floating 24 hour amount reached or exceeded an inch.

Al Kreinik of Parkton 5 SW

10 days of thunder, no severe storms but some with brief heavy rains.

28th - Clear morning gives excellent view of Mars.

Summer 2003: Avg Max 82.2 (+0.3), Avg Min 62.7 (+2.2), Avg Temp 72.5 (+1.2), Precip 15.59 (+3.72)

Joe Manfre of Baltimore 2SE

17 days of rain this month but the total was below normal.

22nd - Hot, humid with strong PM thunderstorms.

Marty Sharrow of Owings Mills

21st - Hazy sunshine, hot, and humid.

24th - Sunny, breezy, and beautiful.

31st - Much cooler and drier; AM clouds & PM sun.

Herb Close of Manchester 1 SW

Mild and wet with above normal temperatures and Precip.

Ralph Hartsock of Westminster 4 SSE

1st - Showers, very humid.

12th - PM thunderstorms - 2 hits back to back.

26th - Afternoon severe line of storms - lots of damage.

Greg Klein of Westminster 5 SSE

After 10 months of below normal temperatures August averaged above normal. The month featured frequent thunderstorms with tropical downpours.

Bobby Miller of Millers 4 NE

Record 13 days with thunder for August but only a few had heavy rain. Tied August 1992 record of 9 days with precipitation in the 0.01" to 0.09" range.

Summer 2003: Avg Max 81.3 (-0.5), Avg Min 63.4 (+1.3), Avg Temp 72.4 (+0.4), Precip 16.69 (+5.79)

Manuel Farfan of Frederick 4 N

14th - Hot and humid with mostly sunny conditions all day long. Heat index reached 101.6F. Dew point reach 77.6F.

16th - Very strong thunder between 11PM & 12 AM. One thunder came so close to my house and was so loud that my ADT alarm was triggered!

21st - Hazy, hot, and humid. Very uncomfortable.

24th - Nice day and dry. Cold morning low of 53.

Rich Giannola of JHU/APL OF Laurel

26th - Severe T'storm. Temps dropped from 84 to 65 in between 4:30-4:45 PM. PWG 50 MPH NNW at 4:47 PM.

27th - T'storm with peak wind gust of 40 mph from NW at 6:52 PM.

Rob Cohen of Potomac 4 N

26th - Severe storm 4:30 - 5:30 PM - power out for 15 minutes - minor tree damage in neighborhood.

Rich Giannola of Olney 1 S

26th - TSRA+ with gusty winds began ~4:30 PM. Lost power at 4:40 PM. RA ended at 5:45 PM. Power restored 7:25 PM. Many small branches and leaves down.

Kevin Shaw of Gaithersburg 2 WNW

26th - Thunderstorm with damaging winds. Power out for nearly 24 hours.

Joe Terry of Forest Glen

17th - Moderate early AM T'storm. Power out 1AM-5AM.

26th - Moderate late afternoon T'storm. Power out for ~5 hours. Very impressive, rapidly moving arc cloud at the leading edge of the storm.

27th - Strong T'storm (sky was the darkest I've seen in years). Minor tree damage. Power out for 10 hours.

Bill Hudelson of South Bowie

16th - T'storm 1530 with 0.95" in 25 minutes, gust W22, frequent lightning. T'storms again at 1620 & 2345.

26th - T'storm with heavy rain and frequent lightning, power out for 4 hours.

Brian Smith of Oxon Hill

27th - Lots of lightning but not that much rain.

Floyd Abell of Hollywood

16th - AM t-shower (.09"), PM t'shower (1.23")

John Zyla of Ridge

30th - Hit 95 degrees for the first time this year.

Greg Keefer of Hagerstown 1 E

1st - Heavy overnight downpours 1:30-3:00AM 1.09" fell.

Jim Vaughn of Smithsburg 2 NE

Second greatest August rainfall behind 7.59" in 1994.

16th - 1/8" hail.

26th - 1/2" hail.

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
AUGUST 2003 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
<i>New Castle, Delaware</i>																								
Canavan, Jim	Wilmington 4 NNE	84.0	67.7	75.9	91	22+	55	24	2	0	0				8.76	3.07	11	<u>35.85</u>	15	3	0.0	0.0	0.0	2400
Gallaher, Gary	Bear 2 SW	85.3	68.2	76.8	92	22	51	24	4	0	0	38	WSW	22	5.10	0.82	11	37.75	15	0	0.0	0.0	0.0	2400
NWS Wilmington	New Castle Co. Apt.	84.5	68.4	76.5	92	14	53	24	3	0	0	35	SE	3	4.16	0.91	11	35.25	16	0	0.0	0.0	0.0	2400
U of D DE Climatologist	Newark Pearson Hall	84.3	69.0	76.7	91	14+	58	24	2	0	0	29		3	5.02	1.23	9	<u>26.90</u>	17	2				2400
<i>Sussex, Delaware</i>																								
NWS Georgetown	Sussex Co. Airport	84.7	68.2	76.5	91	29+	55	24+	5	0	0	38	WNW	26	2.55	0.63	16	32.80	19	0				2400
U of D Research & Ed Ct	Georgetown	84.8	68.2	76.5	91	22	54	25	3	0	0				8.42	2.18	16	<u>38.11</u>	17	3				2400
U of D Warrington Farm	Harbeson	84.7	67.1	75.9	92	29	53	24+	3	0	0				3.75	0.72	16	<u>31.24</u>	15	0				2400
<i>Allegany, Maryland</i>																								
Latta, Greg	Frostburg	78.8	59.4	69.1	85	22	49	24+	0	0	0				4.10	0.94	28	36.31	15	0	0.0	0.0	0.0	0700
Mullins, Nate	LaVale	82.3	64.2	73.3	93	22	51	24	3	0	0				3.85	0.69	27	34.99	18	0	0.0	0.0	0.0	2400
<i>Anne Arundel, Maryland</i>																								
Bryant, Dave	St. Margarets	84.6	69.9	77.3	91	22	60	24	2	0	0				5.09	1.91	9	41.97	16	1	0.0	0.0	0.0	2100-P 2400-T
Hanson, Dan	Millersville 1 SE	<u>85.6</u>	<u>66.8</u>	<u>76.2</u>	93	22	53	24	4	0	0	39	WNW	26	<u>5.36</u>	1.07	3	46.23	14	1	0.0	0.0	0.0	2400
Jug Bay Wetlands	Lothian	<u>86.7</u>	<u>68.3</u>	<u>77.5</u>	95	23	56	25	8	0	0				5.76	1.22	17	43.55	22	1	0.0	0.0	0.0	0900
NWS Baltimore	BWI Airport	84.7	68.1	76.4	92	22	53	24	5	0	0	49	WNW	26	4.61	0.83	3	39.80	17	0	0.0	0.0	0.0	2400
Stoudt, Jeff	Laurel 2 E	84.9	68.9	76.9	93	22	57	24	5	0	0				4.17	0.69	2	45.37	14	0	0.0	0.0	0.0	2359
<i>Baltimore, Maryland</i>																								
Kreinek, Al	Parkton 5 SW	84.6	65.9	75.3	92	22	54	25	2	0	0	23	WSW	4	3.41	0.73	11	38.24	16	0	0.0	0.0	0.0	2200
Sharrow, Marty	Owings Mills 2 SE	84.2	66.3	75.3	93	22	54	24	5	0	0				4.95	1.41	11	36.65	17	2	0.0	0.0	0.0	2400
<i>Baltimore City, Maryland</i>																								
Manfre, Joe	Baltimore 2 SE	87.2	73.0	80.1	95	22+	66	24	10	0	0				2.89	0.67	22	41.65	17	0	0.0	0.0	0.0	1800
Maryland Science Ctr	Baltimore Inner Harbor	86.4	71.9	79.2	94	22+	65	24	7	0	0				3.45	0.77	22	38.05	16	0				2400
<i>Carroll, Maryland</i>																								
Close Jr, Herb	Manchester 1 SW	83.4	66.7	75.1	90	14+	53	24	2	0	0	29		26	5.46	1.93	11	38.72	17	2	0.0	0.0	0.0	2300
Hartsock, Ralph	Westminster 4 SSE	85.1	65.8	75.5	91	14+	52	24	5	0	0	45		26	4.99	1.50	11	36.16	15	1	0.0	0.0	0.0	2100
Klein, Greg	Westminster 5 SSE	82.3	64.9	73.6	90	22	54	24	1	0	0				5.15	1.49	11	35.93	16	1	0.0	0.0	0.0	2200
Miller, Bobby	Millers 4 NE	83.7	66.3	75.0	90	14	55	25	1	0	0	29	NNW	16	4.80	1.63	11	37.50	17	1	0.0	0.0	0.0	1800
<i>Frederick, Maryland</i>																								
Farfan, Manuel	Frederick 4 N	86.2	67.4	76.8	93	14+	53	24	5	0	0				4.92	0.94	12	38.09	14	0	0.0	0.0	0.0	2400
<i>Garrett, Maryland</i>																								
Harvey, Rebecca	Eagle Rock	79.5	60.5	70.0	86	14	48	24+	0	0	0				4.97	1.05	27	47.15	17	1	0.0	0.0	0.0	0800
<i>Harford, Maryland</i>																								
Albright, Lynn	Fallston 2 NW	87.0	65.7	76.4	95	22	52	24+	9	0	0				4.39	1.90	16	42.26	16	1	0.0	0.0	0.0	2400
<i>Howard, Maryland</i>																								
Giannola, Rich	Laurel JHU / APL	83.7	66.9	75.3	91	22	56	24	1	0	0	50	NNW	26	3.41	0.81	5	40.69	15	0	0.0	0.0	0.0	2400

ACON MD / DE / DC
AUGUST 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
<i>Montgomery, Maryland</i>																								
Cohen, Rob	Potomac 4 N	83.8	69.6	76.7	91	22	58	24	2	0	0				4.30	1.05	17	41.95	11	2	0.0	0.0	0.0	2100
Giannola, Rich	Oiney 1 S	83.8	68.6	76.2	92	22	56	24	3	0	0				3.06	0.82	17	39.66	16	0	0.0	0.0	0.0	2400
Roth, David	Montgomery Village 1SW	86.6	69.3	78.0	95	22	57	24	7	0	0	45		26	3.75	0.81	17	41.66	16	0	0.0	0.0	0.0	2400
Rossen, Stan	Glenmont 1 NNE	84.9	68.1	76.5	92	22	55	24	6	0	0	31	N	26	3.42	0.74	26	42.10	14	0	0.0	0.0	0.0	2400
Scafide, Tony	Bethesda	83.6	67.5	75.6	91	22	56	24	2	0	0	23		26	4.42	1.06	26	<u>36.56</u>	16	1				2400
Shaw, Kevin	Gaithersburg 2 WNW	84.8	67.4	76.1	92	22	55	24	5	0	0				3.78	1.06	26	39.64	13	2	0.0	0.0	0.0	2400
Terry, Joe	Forest Glen	87.1	68.6	77.9	94	22	55	24	9	0	0	34		27	4.37	0.83	26	46.38	14	0	0.0	0.0	0.0	2400
Wash Gas Light	Rockville 1 NE	85.8	68.2	77.0	92	22	58	24	4	0	0				<u>1.95</u>	0.65	17	<u>33.77</u>	10	0	0.0	0.0	0.0	2400
<i>Prince Georges, Maryland</i>																								
Hudelson, Bill	South Bowie	86.2	69.1	77.7	94	22	58	24	7	0	0	30	NW	26	5.38	1.05	16	49.06	15	1	0.0	0.0	0.0	2400
Smith, Brian	Oxon Hill	87.0	69.5	78.3	93	14+	61	24+	9	0	0				4.82	1.03	10	45.07	17	2	0.0	0.0	0.0	2400
<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	86.3	70.2	78.3	93	14	59	24+	7	0	0	28		27	5.39	1.32	16	40.07	15	1	0.0	0.0	0.0	2400
Van Wie, Michael	Oraville																							2400
Zyla, John	Ridge	85.9	71.1	78.5	95	30	63	25	7	0	0	27	W	26	5.82	1.92	16	39.68	17	1	0.0	0.0	0.0	2400
<i>Washington, Maryland</i>																								
Keefer, Greg	Hagerstown 1 E	84.2	66.6	75.4	91	14	54	24	3	0	0	35	NW	26	5.05	1.31	17	39.63	11	2	0.0	0.0	0.0	2400
Vaughn, Jim	Smithsburg 2 NE	86.8	66.2	76.5	95	22	52	24	6	0	0	50	N	26	7.34	2.37	11	45.23	15	3	0.0	0.0	0.0	2000
<i>Wicomico, Maryland</i>																								
NWS Salisbury	Wicomico Co. Apt	84.7	66.1	75.4	91	15+	50	25	5	0	0	52	W	26	5.72	1.03	17	37.38	17	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 Nationz	National Airport	85.9	71.6	78.8	94	22	64	24	8	0	0	47	NNW	27	4.65	0.96	26	39.95	14	0	0.0	0.0	0.0	2400
<i>Loudon, Virginia</i>																								
NWS Washington Dulles	Dulles Airport	85.3	67.1	76.2	92	22	56	24	5	0	0	46	N	26	5.57	1.48	13	42.96	18	2	0.0	0.0	0.0	2400
SECTION AVERAGE		84.8	67.6	76.2											4.70						0.0			

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 10/24/03

ACON MD / DE / DC
AUGUST 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	84 68	86 71	86 73	81 72	79 73	79 64	77 67	83 67	83 72	81 71	79 71	84 70	84 73	88 72	88 69	86 71	83 68	83 62	84 66	86 70	88 74	91 64	81 55	76 58	87 66	89 66	86 65	86 68	89 72	91 59	77 59	84.0 67.7	2400 EDT
BEAR 2 SW, DE GALLAHER	84 71	87 73	88 75	86 74	81 73	85 65	79 66	79 67	82 74	84 73	83 73	87 73	82 72	81 72	90 68	85 70	86 69	83 65	85 63	86 64	88 69	82 72	82 68	78 51	86 56	86 66	84 66	86 66	87 69	90 62	79 62	85.3 68.2	2400 EDT
WILMINGTON, DE NWS NEW CASTLE CO APT	84 69	87 73	86 74	84 74	79 69	82 65	78 69	84 69	81 74	83 73	81 72	85 74	86 72	92 70	89 70	86 70	86 70	83 65	83 63	86 66	88 70	91 72	84 62	77 53	85 61	85 68	86 68	87 67	90 68	75 62	84.5 68.4	2400 EST	
U of D DE Climatologist Newark Pearson Hall	83 70	85 73	86 74	84 73	79 72	83 66	79 68	86 68	78 73	83 82	82 M	84 72	84 74	90 91	90 87	86 M	86 69	83 65	86 64	85 67	87 72	91 93	82 68	78 58	85 61	84 70	84 68	86 68	85 69	89 67	76 62	84.3 69.0	2400 EDT
GEORGETOWN, DE NWS SUSSEX CO APT	88 70	87 73	87 72	84 73	81 69	83 65	79 68	84 69	82 73	84 71	82 70	84 71	84 72	90 71	90 71	83 67	85 68	81 67	82 66	85 63	88 68	90 70	83 67	78 55	85 55	89 68	86 68	85 69	91 71	91 65	75 65	84.7 68.2	2400 EST
GEORGETOWN, DE UofD RESEARCH & ED CTR	89 73	89 73	87 73	86 72	82 64	85 67	76 68	84 77	86 74	83 70	82 71	85 71	85 71	90 75	89 70	86 68	85 66	80 68	86 62	88 69	91 71	82 65	77 56	85 54	89 68	87 68	83 57	90 70	90 71	74 66	84.8 68.2	2400 EST	
HARBESON, DE UofD WARRINGTON FARM	89 70	89 72	88 73	86 72	82 70	85 64	77 69	86 69	82 73	86 70	81 70	84 71	84 71	89 69	89 69	82 66	85 66	79 65	81 64	86 61	88 68	91 69	82 64	77 53	84 53	89 66	87 66	83 68	92 70	91 65	73 65	84.7 67.1	2400 EST
FROSTBURG LATTA	70 61	77 60	84 61	78 61	79 60	76 58	76 60	76 60	79 62	76 58	75 59	74 61	79 62	82 62	83 63	83 65	80 63	79 58	76 58	78 59	83 62	85 57	84 49	75 49	77 58	82 58	81 59	79 59	82 59	82 59	73 59	78.8 59.4	0700 EDT
LAVALE MULLINS	79 67	85 68	82 70	80 63	81 60	80 61	80 61	83 68	81 68	82 65	76 67	83 64	83 67	90 68	85 64	85 68	83 65	84 62	85 62	90 64	87 63	87 64	82 62	77 51	85 57	80 67	79 63	80 59	85 68	79 64	69 64	82.3 64.2	2400 EDT
ST MARGARETS BRYANT	81 72	84 72	85 73	83 73	83 73	83 68	78 70	84 69	80 72	82 71	84 72	87 70	85 74	90 74	89 73	87 71	84 68	84 69	83 69	86 69	88 71	91 70	83 67	82 60	86 63	86 68	84 69	88 67	87 72	88 67	78 67	84.6 69.9	2400 EDT
MILLERSVILLE 1SE HANSON	83 72	85 71	86 71	85 72	85 68	84 67	79 68	84 67	81 68	83 70	84 69	88 66	86 71	90 70	91 69	87 66	84 65	83 63	86 64	89 68	93 68	83 62	80 53	88 56	88 66	STATION KNOCKED OFFLINE AT 1700 ON 8/26 DUE TO POWER SURGE.				85.6 66.8	2400 EDT		
LOTHIAN JUG BAY	83 71	86 72	85 74	87 72	86 72	85 64	85 64	80 67	86 71	81 69	84 70	86 68	87 71	88 71	94 70	82 71	73 68	84 67	85 65	87 69	90 72	95 70	87 57	84 56	90 66	93 67	87 65	M M	93 79	93 66	86.7 68.3	0900 EDT	
BALTIMORE NWS BWI APT	80 73	85 73	86 74	83 73	83 68	83 65	78 68	84 70	81 71	83 70	82 70	85 68	86 73	90 70	91 72	88 67	85 68	83 68	84 64	85 66	90 69	92 70	83 63	79 53	86 58	86 67	84 68	85 71	89 70	91 65	76 65	84.7 68.1	2400 EST
LAUREL 2 E STOUDT	80 74	85 74	88 72	82 68	84 65	84 71	79 65	80 71	82 72	82 70	85 68	87 73	92 74	91 74	88 68	82 67	82 68	82 65	85 66	89 70	93 73	83 68	79 57	87 58	86 67	84 68	87 65	91 73	90 64	76 64	84.9 68.9	2359 EST	
PARKTON 5SW KREINIK	80 70	87 72	85 74	82 72	82 69	82 62	84 65	84 66	79 70	82 71	83 70	88 69	88 71	91 68	89 66	86 68	83 65	81 62	84 57	87 61	89 64	92 70	80 61	78 57	86 54	85 65	85 66	87 62	87 68	89 68	77 60	84.6 65.9	2200 EDT
OWINGS MILLS 2SE SHARROW	79 70	88 71	85 71	82 72	79 71	83 62	78 65	85 66	79 69	82 69	79 69	85 67	86 70	91 69	90 68	87 72	83 64	81 63	85 60	88 64	90 67	93 69	82 65	79 54	87 58	83 67	80 64	85 62	91 68	75 61	84.2 66.3	2400 EDT	
BALTIMORE 2SE MANFRE	82 75	88 75	88 75	86 74	85 75	80 69	86 75	84 72	86 72	83 72	88 74	88 75	90 77	93 76	95 77	83 79	86 70	83 72	86 72	89 73	92 77	94 74	84 66	81 67	89 67	87 72	73 71	85 71	91 76	94 75	79 67	86.4 73.0	2400 EDT
BALT INNER HARBOR MD SCIENCE CENTER	82 74	89 75	88 75	85 74	85 70	80 69	86 74	84 72	85 72	84 74	89 73	89 77	92 76	92 77	91 70	86 69	83 70	86 72	89 73	92 72	94 72	84 65	81 67	89 67	87 70	87 71	73 71	85 75	91 72	94 66	79 66	86.4 71.9	2400 EST
MANCHESTER 1SW CLOSE	78 69	85 70	84 72	81 71	81 62	80 65	82 66	85 66	82 70	82 67	78 69	85 70	86 71	90 71	90 71	86 65	82 63	80 60	84 66	85 68	87 71	89 64	81 53	77 64	84 66	82 66	86 63	88 70	88 59	73 66	83.4 66.7	2300 EDT	
WESTMINSTER 4 SSE HARTSOCK	82 70	89 72	86 72	84 72	85 68	86 63	84 63	90 66	88 69	87 70	81 69	86 68	89 67	91 67	90 68	88 70	83 65	79 63	83 57	85 61	88 66	91 71	80 66	73 52	83 55	87 67	83 65	83 61	90 68	88 61	76 65	85.1 65.8	2100 EDT
WESTMINSTER 5 SSE KLEIN	83 68	84 70	83 71	83 69	83 67	83 61	83 64	86 65	82 67	83 68	76 67	85 67	84 67	86 69	87 69	85 63	79 61	79 57	80 62	84 65	85 70	90 64	77 54	81 58	83 64	77 64	82 61	86 67	87 58	73 66	82.3 64.9	2200 EDT	
MILLERS 4NE MILLER	79 69	86 69	83 73	82 72	82 69	83 62	83 64	80 65	82 70	80 71	82 68	86 69	86 68	90 70	89 67	86 70	82 65	81 63	84 56	85 63	87 66	88 72	84 65	78 56	85 55	83 69	82 65	86 71	88 59	76 59	83.7 66.3	1800 EDT	
FREDERICK 4 N FARFAN	82 72	88 74	86 73	87 72	88 68	85 65	83 66	86 68	84 71	88 71	85 69	87 66	89 69	93 69	93 69	86 68	83 67	81 65	83 60	89 65	91 70	93 72	84 68	80 53	90 58	87 68	85 68	86 63	89 71	89 71	73 63	86.2 67.4	2400 EDT
EAGLE ROCK HARVEY	72 62	78 62	84 60	81 60	80 60	79 60	79 60	72 60	80 62	80 60	79 60	78 60	80 60	86 60	84 62	82 62	80 62	80 62	76 62	80 64	84 68	84 62	80 48	74 48	78 48	80 60	82 60	79 60	82 64	79 60	72 60	79.5 60.5	0800 EDT

ACON MD / DE / DC
AUGUST 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	86	89	89	86	82	87	79	90	84	87	83	91	88	92	91	90	86	84	86	89	92	95	83	78	87	88	86	89	91	91	78	87.0	2400	
ALBRIGHT	70	72	70	71	69	62	65	65	71	70	69	69	71	69	67	69	66	62	59	62	66	70	59	52	52	66	66	64	68	65	61	65.7	EDT	
LAUREL JHU / APL	79	84	84	83	84	84	78	84	79	83	79	87	86	89	89	86	82	80	83	86	89	91	78	77	85	84	83	86	89	88	75	83.7	2400	
GIANNOLA	71	73	73	71	66	63	66	68	70	68	70	66	70	70	69	70	65	64	63	65	69	70	65	56	57	65	66	65	70	69	61	66.9	EDT	
POTOMAC 4N	80	84	86	82	83	84	80	85	80	82	78	85	86	90	89	87	82	80	82	86	88	91	82	79	87	84	81	84	88	87	76	83.8	2100	
COHEN	74	74	76	74	74	65	69	70	74	72	71	69	73	72	73	70	69	69	66	68	70	74	64	58	62	68	68	65	70	70	66	69.6	EDT	
OLNEY 1 S	78	83	84	83	85	84	78	83	>	82	78	83	85	90	90	86	83	81	82	87	88	92	83	80	88	84	81	85	89	88	72	83.8	2400	
GIANNOLA	72	73	74	72	70	64	68	69	>	70	71	68	71	71	71	73	67	66	65	68	71	74	67	56	61	68	67	65	72	70	64	68.6	EDT	
MONTGOMERY VILLAGE	82	88	87	85	86	87	81	85	82	86	81	87	87	93	93	91	87	84	86	89	92	95	85	80	89	87	85	86	92	93	76	86.6	2400	
ROTH 1SW	72	75	76	73	71	67	68	69	71	71	72	68	72	72	73	74	68	64	66	70	72	71	66	57	62	68	67	65	73	72	66	69.3	EDT	
GLENMONT 1NNE	80	85	86	85	85	86	78	81	80	84	79	85	87	91	90	88	83	82	82	88	91	92	81	81	89	86	82	87	91	90	76	84.9	2400	
ROSSEN	73	74	74	72	68	65	67	69	72	70	71	69	71	71	71	69	68	66	64	66	68	72	63	55	59	67	68	65	71	70	64	68.1	EST	
BETHESDA	81	85	84	83	83	85	79	84	80	83	79	86	85	90	90	87	83	82	82	85	88	91	81	77	86	84	74	84	88	88	75	83.6	2400	
SCAFIDE	72	72	72	70	66	63	67	67	70	68	71	68	70	70	71	68	66	67	65	66	68	72	65	56	60	67	67	69	69	68	63	67.5	EDT	
GAITHERSBURG 2WNW	80	86	86	83	85	86	81	85	80	84	80	85	88	90	90	88	82	80	84	87	90	92	83	79	87	84	85	85	89	90	75	84.8	2400	
SHAW	72	73	73	70	69	63	66	67	71	70	70	66	70	69	69	71	67	66	62	67	69	72	64	55	59	66	66	63	72	69	64	67.4	EDT	
FOREST GLEN	82	86	86	85	86	87	81	85	82	85	83	90	89	93	93	90	87	86	85	89	92	94	86	82	89	89	86	90	91	92	78	87.1	2400	
TERRY	73	74	74	72	67	64	68	69	72	70	72	69	72	71	72	72	68	67	65	67	71	74	65	55	59	68	68	64	72	70	64	68.6	EDT	
ROCKVILLE 1NE	82	87	87	85	86	86	80	85	81	85	84	87	87	91	91	83	85	83	86	89	91	92	83	80	88	M	86	87	86	M	M	85.8	2400	
WASH GAS LIGHT	73	75	73	73	67	63	63	63	71	70	70	67	70	70	70	71	66	66	63	66	70	73	68	58	59	M	68	65	76	71	M	68.2	EDT	
SOUTH BOWIE	83	86	88	84	86	86	79	87	80	82	85	88	87	90	92	90	86	84	84	86	90	94	85	82	88	88	85	86	90	91	79	86.2	2400	
HUDELSON	74	73	74	72	68	66	70	70	72	70	72	69	73	72	71	72	69	69	66	68	70	73	66	58	59	60	68	67	74	72	66	69.1	EDT	
OXON HILL	81	87	87	86	86	86	81	85	86	85	85	88	88	93	93	90	88	84	86	87	90	93	85	83	90	90	88	86	91	92	76	87.0	2400	
SMITH	74	73	74	72	66	66	69	71	72	69	72	70	73	73	73	69	68	68	66	67	71	73	66	61	61	69	69	67	73	72	66	69.5	EDT	
HOLLYWOOD	85	86	87	85	84	87	78	85	80	83	84	87	88	93	92	88	87	84	84	86	89	92	85	81	87	90	91	88	92	92	76	86.3	2359	
ABELL	73	73	74	72	68	68	70	67	74	72	71	70	73	73	72	70	69	70	67	65	72	75	75	59	59	69	71	69	73	73	69	70.2	EDT	
ORAVILLE																																		2400
VAN WIE																																		EDT
RIDGE	88	87	86	86	86	84	76	83	79	84	83	86	86	90	92	87	84	82	84	86	89	92	82	81	89	91	92	85	93	95	75	85.9	2400	
ZYLA	73	73	74	75	71	69	70	69	73	73	74	72	71	69	75	70	70	70	68	68	74	76	69	64	63	70	72	70	77	74	68	71.1	EDT	
HAGERSTOWN 1E	79	86	83	84	83	82	83	84	83	84	80	87	87	91	90	85	84	82	84	86	89	90	82	79	89	81	81	86	89	86	71	84.2	2400	
KEEFER	71	68	71	68	67	63	65	66	70	69	69	65	69	70	69	66	65	60	64	67	71	67	54	60	67	67	61	71	71	63	66.6	EDT		
SMITHSBURG 2 NE	80	89	84	86	86	86	87	89	87	87	84	89	92	94	92	89	85	84	89	88	91	95	82	79	88	83	81	89	91	88	78	86.8	2000	
VAUGHN	71	67	72	69	68	63	65	67	70	70	66	65	69	68	68	68	66	61	59	65	69	71	65	52	60	66	68	61	73	68	62	66.2	EDT	
SALISBURY	87	86	86	85	81	83	76	85	81	84	80	84	85	89	91	86	85	81	82	85	88	90	83	78	84	89	90	86	91	91	75	84.7	2400	
NWS WICOMICO CO APT	70	70	73	72	69	64	66	67	72	70	69	69	70	67	67	67	66	65	62	59	64	71	59	51	50	65	68	66	68	68	66	66.1	EST	
HANOVER 2 S, PA																																		2100
RICKELL																																		EDT
WASH NATIONAL	81	84	85	84	84	84	80	84	80	82	83	88	86	92	93	90	87	85	84	86	89	94	85	81	90	90	86	87	90	92	77	85.9	2400	
NWS ASOS	75	75	75	73	68	68	73	72	73	71	73	73	75	76	76	73	69	71	71	71	73	76	69	64	65	69	70	69	74	73	67	71.6	EST	
WASH DULLES	82	85	86	83	85	85	80	83	81	84	83	89	87	90	89	87	84	83	84	87	89	92	82	79	87	90	87	87	90	90	74	85.3	2400	
NWS ASOS	73	74	72	69	65	63	65	66	69	69	71	67	69	68	70	68	68	66	63	66	70	71	62	56	58	66	67	64	71	69	65	67.1	EST	

ACON MD / DE / DC
AUGUST 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	0.37	0.05	0.15	0.63	0.56	0.17	0.83		1.30	0.20	3.07					0.25	0.05					0.02				0.08				1.03		8.76	2400
BEAR 2 SW, DE GALLAHER	0.19		0.02		0.49	0.07	0.79	T	0.63	0.41	0.82					0.34	0.22					0.30				0.08	0.01		0.02	0.71		5.10	2400
WILMINGTON, DE NWS NEW CASTLE CO APT	0.18	T	0.39	0.01	0.62	0.01	0.60	0.02	0.14	0.07	0.91					0.07	0.13					0.16			T	0.03	T		0.02	0.80		4.16	2400
U of D DE Climatologist Newark Pearson Hall	0.34	0.34	0.02	0.03	0.39	0.02	0.46		1.23	0.20	0.11	0.01				0.29	0.20					0.28				0.08	0.01			1.01		5.02	2400
GEORGETOWN, DE NWS SUSSEX CO APT	0.05	0.10	T	0.05	0.08	0.29	0.34			0.03	0.02	0.17	0.01			0.63	0.04		0.01			0.02				0.15	0.06		0.22	0.26	0.02	2.55	2400
GEORGETOWN, DE UofD RESEARCH & ED CTR			0.09	0.01	1.68	0.18	1.77		0.12	0.02		0.26	0.01			2.18	0.02					0.07				0.13	0.80		0.34	0.73	0.01	8.42	2400
HARBESON, DE UofD WARRINGTON FARM	0.04	0.02		0.04	0.52	0.58	0.34			0.56		0.02				0.72	0.07									0.10	0.06		0.22	0.45	0.01	3.75	2400
FROSTBURG LATTA	0.14		0.07	0.39	0.05	0.29			0.02	0.04	0.47	0.53	T				0.33						0.01				0.40	0.94		0.07	0.35	4.10	0700
LAVALE MULLINS	0.09	0.31	0.43	0.16	0.50	0.11	0.20		0.46	0.16	0.03	0.02				0.03	0.03									0.54	0.69		0.03	0.04	0.02	3.85	2400
ST MARGARETS BRYANT	0.44		0.12		0.01	0.15	0.15		1.91	0.17	0.56		T			0.06	0.34					0.64	0.03			0.31	0.03	T	0.10	0.07		5.09	2100
MILLERSVILLE 1SE HANSON	0.11		1.07	0.01	0.09	0.01	0.03		0.82	0.22	0.61			0.21		0.07	0.72					0.98				0.41	STATION KNOCKED OFFLINE AT 1700 ON 8/26 DUE TO POWER SURGE.					5.36	2400
LOTHIAN JUG BAY	0.01	0.26	0.01	0.41	0.07	0.45	0.01	0.03	0.35	0.19	0.02	0.71	0.02	T			1.22	0.01			0.01		0.01	0.01			0.87	0.51	M	0.33	0.25	5.76	0900
BWI NWS ASOS	0.12	T	0.83	0.13	0.08	T	0.05	T	0.28	0.08	0.58	0.06	0.07			0.42	0.27					0.65				0.30	0.30		0.34	0.05		4.61	2400
LAUREL 2 E STOUDT	0.12	T	0.69	0.23	0.10		0.06		0.45		0.62					0.11	0.52					0.52				0.33	0.18		0.14	0.10		4.17	2359
PARKTON 5SW KREINIK	0.15	0.04	0.23		0.02	0.37	0.02	0.13	0.06	0.37	0.73		0.02			0.48	0.49						T			0.14	0.02		T	0.14	T	3.41	2200
OWINGS MILLS 2SE SHARROW	0.03	T	0.30	0.04	0.16	0.05	0.01	0.04	0.24	0.11	1.41		0.09			0.01	0.72					1.03				0.34	0.36		0.01	T		4.95	2400
BALTIMORE 2SE MANFRE	0.13	0.01	0.27	0.02	0.13	0.19	0.01		0.25	0.03	0.32		0.02			0.32	0.31					0.67				0.10	0.09			0.02		2.89	1800
BALT INNER HARBOR MD SCIENCE CENTER	0.09		0.41	0.20	0.09	0.20	0.01		0.20	0.05	0.21		0.39			0.30	0.33	0.01				0.77				0.16				0.03		3.45	2400
MANCHESTER 1SW CLOSE	0.23	0.24	0.01	0.05	0.05	0.19		0.03	0.03	0.05	1.93	0.27				T	1.49					0.39				0.21	0.08		0.03	0.18	T	5.46	2300
WESTMINSTER 4 SSE HARTSOCK	0.22	0.15	0.07	0.04	T	0.06	T	T	0.03	0.08	1.50	0.76					0.90					0.06				0.36	0.32		0.05	0.39		4.99	2100
WESTMINSTER 5 SSE KLEIN	0.27	0.14	0.06	0.04		0.06	0.01		0.03	0.09	1.49	0.69				0.91						0.09				0.52	0.28		0.05	0.42		5.15	2200
MILLERS 4NE MILLER	0.28	0.28	0.08	0.02	0.08	0.42	T		0.02	0.07	1.63	T	0.03			0.58	0.93					T	0.02			0.17	0.03	0.02	T	0.14	T	4.80	1800
FREDERICK 4 N FARFAN	0.76	T	0.02	0.02	0.10		0.38		0.26	T	0.52	0.94				0.43	0.63					0.03				0.41	0.32			0.10		4.92	2400
EAGLE ROCK HARVEY	0.11	T	0.27	0.06	0.13	T		0.02	0.04	0.40	0.37	0.26	0.15	0.05		0.35		T					0.10				1.05	0.86		0.16	0.59	4.97	800

**ACON MD / DE / DC
AUGUST 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	0.06	0.01	0.03	0.55	0.35	0.01		T	0.17	0.16	0.04	0.24				1.90	0.34					0.28				0.08	0.10		T	0.07		4.39	2400	
LAUREL JHU / APL GIANNOLA	0.05	0.02	0.01	0.21	0.81		0.02		0.22	0.12	0.59	0.02					0.50					0.28				0.39	0.15		0.02			3.41	2400	
POTOMAC 4N COHEN	0.09	T	T	0.10	0.08	T	T			0.15	1.03	T				0.15	1.05					T				0.96	0.30		0.19	0.20		4.30	2100	
OLNEY 1 S GIANNOLA	0.07	0.02	0.08	0.08	0.11		0.02	0.16	>	0.11	0.62	0.02	0.01			T	0.82					0.03				0.68	0.06		0.17			3.06	2400	
MONTGOMERY VILLAGE ROSS	0.16		0.04	0.04	0.12		0.02	0.09		0.12	0.71	0.02	0.24			0.32	0.81					0.20				0.79	0.05		0.02			3.75	2400	
GLENMONT 1NNE ROSSEN	0.04	0.05	0.15	0.05	0.59		T	T	T	0.07	0.43	T	0.01			0.51	0.43					T				0.74	0.13	T	0.07	0.15		3.42	2400	
BETHESDA SCAFIDE	0.01		0.23	0.16	0.12	0.01		0.05		0.07	0.47					0.45	0.97					0.02	0.01			1.06		0.01	0.52	0.26		4.42	2400	
GAITHERSBURG 2WNW SHAW	0.17	T	0.08	0.07	0.13			0.24	T	0.12	0.69	0.08				0.08	1.01					0.01				1.06	0.04		T	T		3.78	2400	
FOREST GLEN TERRY	T	0.18	0.20	0.07	0.40			T	T	0.08	0.13					0.11	0.46					0.02				0.83	0.79		0.40	0.69	0.01	4.37	2400	
ROCKVILLE 1NE WASH GAS LIGHT	0.08	T	T	T	0.15	T	T	0.17			0.59	0.02				0.05	0.65					0.01				M	0.09		0.14	T		1.95	2400	
SOUTH BOWIE HUDELSON	0.27		0.09	T	0.68	0.01	0.01	T	0.10	0.21				0.08		1.05	0.22	T				0.01				0.67	0.65		0.84	0.49		5.38	2400	
OXON HILL SMITH	0.42	0.06	0.05	T	0.38		0.02	0.02	T	1.03	0.06	T		T		0.55	0.02	0.16	T			0.05				1.02	0.38		0.48	0.11	0.01	4.82	2400	
HOLLYWOOD ABELL	0.36	0.48	0.45	0.02	0.23	0.37	0.30		0.41	0.01	0.36	0.03				1.32										0.75	0.21			0.09		5.39	2359	
ORAVILLE VAN WIE																																		2400
RIDGE ZYLA	0.19	0.38	0.34		0.37	0.06	0.47	0.01	0.12		0.02	0.01				1.92	0.02	T								0.49	0.20	0.04		0.85	0.33	5.82	2400	
HAGERSTOWN 1E KEEFER	1.11		T	0.02	0.12	0.28	T	0.01			0.77	T				0.13	1.31									0.82	0.28			0.20	T	5.05	2400	
SMITHSBURG 2 NE VAUGHN	1.19			T	0.02	0.23	0.08	0.15		0.06	2.37	0.02			0.02	0.94	1.11	0.02								0.87	0.15			0.11		7.34	2000	
SALISBURY NWS WICOMICO CO APT	0.07	0.37	T	0.03	0.35	0.39	0.36		T	0.18	0.05	0.03	0.26			0.58	1.03									0.21	0.42		0.65	0.62	0.12	5.72	2400	
HANOVER 2 S, PA RICKELL																																		2100
WASH NATIONAL NWS ASOS	0.89	0.01	0.23	0.01	0.39		T	T	0.44	0.01	0.04					0.62	0.20					T				0.96	0.56	T	0.06	0.23	T	4.65	2400	
WASH DULLES NWS ASOS	0.23	T	0.06	0.01	0.04	0.01	T	0.11	0.02	T	0.01	0.01	1.48			1.45	0.10					0.27				0.96	0.65	0.01	0.03	0.12	T	5.57	2400	