



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

COOL MONTH WITH A COUPLE OF WARM SPELLS — BELOW NORMAL PRECIPITATION

The April 2003 highlight was the storm of the 7th which brought glaze to Western Maryland, and higher locations of Central Maryland, along with wet snow and sleet to the northern portion of the region and then cold maximum temperatures after the storm passed.

The month began on a very cold note. Generally temperatures fell into the mid to upper 20's the morning of the 1st. The coldest of 17 degrees was observed at **Frostburg** by **Greg Latta**. Only two ACON stations failed to report a freezing temperature: **Joe Manfre** of **Baltimore 2 SE** 33 degrees and **John Zyla** of **Ridge** 34 degrees. Temperatures rose to the 70's and 80's on the 2nd and 3rd ahead of a back door cold front which moved into the region on the 3rd. **Brian Smith** of **Oxon Hill** summed it up - "...ruined another early season hot spell."

A storm on the 7th brought snow, sleet, and a cold rain. Liquid amounts generally ranged for 1/2" to 7/8". The heaviest fell in Allegany County where **Nate Mullins** of **LaVale** reported 1.33" and **Greg Latta** of **Frostburg** 1.26" (7th & 8th) and St Marys County where **John Zyla** of **Ridge** reported 1.24" and **Floyd Abell** 1.22". Glaze occurred in Western and higher elevations of Central Maryland. **Rebecca Harvey** of **Eagle Rock** reported damage to timber worse than the October 2002 Ice Storm. **Herb Close** of **Manchester 1 SW** reported that this is the first time that he has ever had glaze in April in 24 years of observing including the last 14 at Manchester 1 SW. Measurable snow and sleet fell in the northern portions of the region. One inch or more were reported by the following ACON Observers: **Greg Latta** of **Frostburg**, **Nate Mullins** of **LaVale**, **Herb Close** of **Manchester 1 SW**,

Bobby Miller of **Millers 4 NNE**, and **Jim Vaughn** of **Smithsburg 2 NE**. Trace amounts fell as far south as Washington.

Maximum temperatures on the 8th were very cold for April. Several observers reported that they set an April minimum maximum temperature for their location. Some reported were: **Herb Close** of **Manchester 1 SW** 33 degrees - old record 39 set 4/2/92, **Rob Cohen** of **Potomac 4 N** 38 degrees, **Stan Rossen** of **Glenmont 1 NNE** 39 degrees - old record 41 set 4/7/82, **Kevin Shaw** of **Gaithersburg 2 WNW** 39 degrees - old record 40 set on 4/6/82, **Jim Vaughn** of **Smithsburg 2 NE** 39 degrees - old record 42 last tied on 4/9/96.

Two more storms moved through the region the next few days. The first one was on the 9th/10th where generally 1/3" to 5/8" fell. Amounts around 1" fell in Southern Delaware, Lower Maryland Eastern Shore and portions of St Marys County. Another storm on the 11th/12th brought 1/5" to 1"+ with the heavier amounts east of the Chesapeake Bay.

Much warmer temperature and sunny skies finally moved back into the region on the 15th. Temperatures rose into the 80's at some locations on the 15th and again on the 16th at many more locations. Temperatures peaked at 89 degrees at **Jug Bay Wetlands**. The 16th was the warmest day of the month at a majority of ACON stations.

The 17th was windy and much colder. **Gary Gallaher** of **Bear 2 SW DE** reported afternoon temperatures in the lower 40's, over 40 degrees colder than the previous day.

Precipitation during the last half of the month was much lighter than the first half. Four events occurred. The first the 17th - 19th, the second on the 21st & 22nd, and the third and heaviest one on the 25th &

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	89
Millersville 1 SE	88
Baltimore 2 SE	88

MINIMUM TEMPERATURE

Frostburg	17
Eagle Rock	18

WARMEST AVG. TEMP.

Ridge	55.9
Oxon Hill	55.4

COLDEST AVG. TEMP.

Eagle Rock	46.4
Frostburg	47.3

MAXIMUM PRECIPITATION

UofD Warrington Farm	4.26
Eagle Rock	3.81
Laurel JHU/ALP	3.65

MINIMUM PRECIPITATION

UofD Pearson Hall Newark	1.97
Westminster 5 SSE	2.06
Frederick 4 N	2.40

MAXIMUM SNOW

Eagle Rock	2.0
Frostburg	1.7

26th, and the final and lightest one 29th & 30th. Rainfall amounts were around an inch.

Temperatures the final 10 days of the month were in the 60's and 70's during the day with a few 80's on the 28th and the 30's, 40's and 50's at night. Some freezing temperatures were observed on the morning of the 24th.

PLEASE FORWARD DATA BY THE 15TH OF THE FOLLOWING MONTH. LATE DATA SLOWS THE REPORT DOWN FOR EVERYONE. THE MORE COMPLETE THE REPORT, THE BETTER THE REPORT.

OBSERVER COMMENTS FOR APRIL 2003

Gary Gallaher of Bear 2 SW, DE

Seven (7) days with maximum temperature less than 50 degrees set a record. Old record was six (6) days set in 1964. Monthly peak wind gust of 37 MPH a new record minimum for April. Old record was 39 set in 1998 and tied in 2001.

7th - 0.8" of wet snow which changed to rain by mid day. Heaviest April snow since 2.3" fell on 4/9/2000.

Greg Latta of Frostburg

5th - Thunder

7th / 8th / 9th - Glaze each day. Max temperature on the 8th only 31 degrees. (note obs. time 7AM)

Nate Mullins of LaVale

3rd - First 80 degree day of the year.

7th - Ice storm. Rain overnight changed to snow and sleet mixed with freezing rain, heavy at times. Total solid Precip by 7 AM about 1" before changing back to a cold rain that continued to freeze on grass and trees. An icy, slushy mess.

18th - Much colder today after being in the 80's on the 14th to 16th with light rains by evening. High only 38 degrees.

Dave Bryant of St Margarets

Bay temperature at months end 58 degrees, a little below normal.

Jeff Stoudt of Laurel 2 E

7th - Rain mixed with sleet AM then drizzle PM.

30th - Very late thundershower.

Greg Klein of Westminster 5 SSE

1st - Winter type morning low of 21.

7th - I had an eight hour period of April snow and sleet. Due to warm surfaces, only a half inch managed to accumulate.

Marty Sharrow of Owings Mills

1st - Overcast AM with showers.

17th - Early morning thunderstorm, then rather cloudy and colder.

Joe Manfre of Baltimore 2SE

2nd - Breezy and warm.

4th - Cloudy and cool.

15th & 16th - Sunny and warm each day.

30th - Partly cloudy, mild, late day light rain.

Herb Close of Manchester 1 SW

7th - 1.5" of snow and mostly sleet fell along with up to 1/8" of glaze from freezing rain. This is the first April glaze observed here in 14 years of observing.

8th - Max temperature of 33 set a record for lowest maximum temperature for April. Old record was 39 set 4/2/92.

Ralph Hartsock of Westminster 4 SSE

1st - Early rain / snow / sleet brief showers

Bobby Miller of Millers 4 NE

2nd - First 40 degree temp range since 5/21/92.

8th - Second lowest maximum temp for April.

Manuel Farfan of Frederick 4 N

1st - Trace of snow during the morning, then much warmer with a high of 64.

22nd - Rain overnight and dense for this morning. Mostly cloudy with periods of sun. Windy at night.

Rebecca Harvey of Eagle Rock

7th-9th - Ice storm. 1.5" on lines and 2" of ice on the ground. Electric and phone off Monday—Wednesday. More damage to timber than ice storm in October.

Rich Giannola of JHU/APL OF Laurel

7th -- Rainy day mixed with sleet in AM.

25th -- Solar halo at 1:30 PM.

Rob Cohen of Potomac 4 N

7th - Sleet 5 - 7 AM. Afternoon temps in mid 30's.

8th - 38 degree max—record low April max temperature.

Rich Giannola of Olney 1 S

9th -- AM rain tapering to of drizzle in the afternoon and evening.

18th -- Light rain and drizzle during the day. Some fog in the evening.

Stan Rossen of Glenmont 1 NNE

8th - Record low maximum temperature of 39 for April. Previous record low maximum temperature was 41 set on 4/7/82.

15th - Minimum relative humidity 18%.

Kevin Shaw of Gaithersburg 2 WNW

8th - Record low maximum temperature of 39 for April. Previous record low maximum temperature was 40 set on 4/6/82.

Joe Terry of Forest Glen

Several wild temperature swings, typical for April. Warm periods were brief; many very cool days. Precipitation total and distribution were beneficial to the start of the growing season. Very windy for April.

Bill Hudelson of South Bowie

15th - Lunar corona 2100 hours.

21st - Dense early morning fog.

30th - Thunderstorm 2315 hours.

Brian Smith of Oxon Hill

3rd - Back door evening cold frontal passage ruined another early season hot spell!

Floyd Abell of Hollywood

26th - Cloudy, spotty rain.

John Zyla of Ridge

21st - Very thick morning fog.

Greg Keefer of Hagerstown 1 E

2nd - Great Day! Sunny and warm 81 degrees.

4th - Showers and thundershowers 9-11 PM.

7th - Rain began this morning around 3:30 AM, mixed with sleet by 6 AM, snow / sleet all morning through early afternoon, then mostly rain. Temps remained in the mid 30's all day.

15th - Mostly sunny and warm. Max of 84 one degree shy of record of 85 set in 1960.

Jim Vaughn of Smithsburg 2 NE

Two 20+ acre brush fires within 1.5 miles of my home-stand. Five (5) days with peak wind gusts of 50+ mph, a new record for any month.

7th - 1.2" of snow, sleet. Glaze 1/4" deep.

ACON MD /DE / DC
APRIL 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
<u>New Castle, Delaware</u>																									
Canavan, Jim	Wilmington 4 NNE																11.52						51.2	2400	
Gallaher, Gary	Bear 2 SW	61.4	40.4	50.9	86	16	24	1	0	0	2	37	NNE	17	2.94	0.86	11	16.48	9	0	0.8	0.8	7	57.3	2400
NWS Wilmington	New Castle Co. Apt.	60.8	41.2	51.0	86	16	28	1	0	0	2	38	WNW	23	2.62	0.75	11	14.41	9	0	T	T	7	46.0	2400
U of D DE Climatologist	Newark Pearson Hall	61.9	42.5	52.2	86	16	29	1	0	0	2	35		17	1.97	0.61	11	12.03	9	0					2400
<u>Sussex, Delaware</u>																									
NWS Georgetown	Sussex Co. Airport	61.8	43.0	52.4	85	16	28	1	0	0	1	41	ENE	10	3.71	1.01	9	13.42	10	1					2400
U of D Research & Ed Ctr	Georgetown	62.1	42.8	52.5	83	16	28	1	0	0	1				3.27	0.94	9	12.94	11	0				26.3	2400
U of D Warrington Farm	Harbeson	60.9	42.3	51.6	85	16	27	1	0	0	1				4.26	1.09	9	13.27	11	2				2.4	2400
<u>Allegany, Maryland</u>																									
Latta, Greg	Frostburg	58.1	36.5	47.3	81	16	17	1	0	1	10				3.29	0.70	8	14.23	16	0	1.7	1.0	7	92.0	0700
Mullins, Nate	LaVale	63.2	40.0	51.6	86	15	28	1	0	0	4				3.55	1.33	7	14.14	12	1	1.0	1.0	7	66.3	2400
<u>Anne Arundel, Maryland</u>																									
Bryant, Dave	St. Margarets	62.2	42.9	52.6	86	16	28	1	0	0	1				2.89	0.76	26	16.52	10	0	0.0	0.0		47.7	2100-P 2400-T
Hanson, Dan	Millersville 1 SE	63.9	40.5	52.2	88	16	25	1	0	0	1	34	NW	23	3.20	0.82	7	18.25	9	0	0.0	0.0		52.8	2400
Jug Bay Wetlands	Lothian	64.4	41.6	53.0	89	17	25	1	0	0	1				3.17	0.65	8	16.31	12	0	0.0	0.0		28.2	0900
NWS Baltimore	BWI Airport	63.5	41.8	52.7	85	16	27	1	0	0	2	39	E	17	2.40	0.66	7	15.86	10	0	T	T	7	58.2	2400
Stoudt, Jeff	Laurel 2 E	-	-	-	-	-	-	-	-	-	-				3.27	0.80	7	18.11	12	0	T	T	7	53.1	2400
<u>Baltimore, Maryland</u>																									
Kreinik, Al	Parkton 5 SW	63.7	39.7	51.7	84	16	23	1	0	0	3	39	WNW	6	2.97	0.66	26	16.23	10	0	0.5	0.5	7	63.1	2200
Sharrow, Marty	Owings Mills 2 SE	62.2	39.7	51.0	84	15+	24	1	0	0	4	34		23	3.67	1.44	26	14.49	14	1	0.1	0.1	7	63.0	2400
<u>Baltimore City, Maryland</u>																									
Manfre, Joe	Baltimore 2 SE	63.5	46.6	55.1	88	16	34	1+	0	0	0				3.14	0.86	7	18.44	12	0	0.0	T	7	56.3	1800
Maryland Science Ctr	Baltimore Inner Harbor	63.7	46.0	54.9	87	16	33	1	0	0	0				2.73	0.75	7	17.35	12	0					2400
<u>Carroll, Maryland</u>																									
Close Jr, Herb	Manchester 1 SW	61.3	41.8	51.6	83	16	27	1	0	0	4	41		11	2.41	0.63	7	14.05	13	0	1.5	1.5	7	70.0	2300
Hartsock, Ralph	Westminster 4 SSE	61.9	40.6	51.3	84	16	24	1	0	0	3				2.45	0.79	7	14.29	11	0	0.5	0.5	7	63.1	2100
Klein, Greg	Westminster 5 SSE	59.1	39.5	49.3	80	16	21	1	0	0	5				2.06	0.65	7	13.85	10	0	0.5	0.5	7	68.0	2200
Miller, Bobby	Millers 4 NE	63.4	40.8	52.1	82	16	25	1	0	0	3	38	SW	16	2.62	0.73	26	14.56	13	0	1.5	1.5	7	67.4	1800
<u>Frederick, Maryland</u>																									
Farfan, Manuel	Frederick 4 N	63.8	40.9	52.4	86	16	26	1	0	0	1				2.40	0.75	7	15.35	14	0	0.4	0.4	7	57.4	2400
<u>Garrett, Maryland</u>																									
Harvey, Rebecca	Eagle Rock	57.3	35.4	46.4	78	15+	18	1	0	1	19				3.81	0.77	7	19.66	15	0	2.0	2.0	1	190.9	0800
<u>Harford, Maryland</u>																									
Albright, Lynn	Fallston 2 NW	63.4	39.0	51.2	86	16	22	1	0	0	2				3.23	0.81	7	16.55	11	0	0.5	0.5	7	54.8	2400

ACON MD /DE / DC
APRIL 2003 SUMMARY

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		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY		DATE	SEA- SON
	<u>Howard, Maryland</u>																								
Giannola, Rich	Laurel JHU / APL	64.2	42.6	53.4	87	16	28	1	0	0	1	35	NW	5	3.65	1.01	7	19.35	12	1	T	T	7	58.7	2400
	<u>Montgomery, Maryland</u>																								
Cohen, Rob	Potomac 4 N	64.9	43.2	54.1	84	15+	28	1	0	0	1				2.66	0.74	7	16.70	10	0	T	T	1+	52.0	2100
Giannola, Rich	Olney 1 S	65.3	42.1	53.7	87	16	26	1	0	0	1				2.98	0.85	25-26	16.86	10	0	0.0	0.0		58.9	2400
Roth, David	Montgomery Village 1SW	65.0	43.6	54.3	87	16	29	1	0	0	1	21		5	2.97	0.79	7	16.61	13	0	0.0	0.0		52.5	2400
Rossen, Stan	Glenmont 1 NNE	66.2	41.9	54.1	88	1	27	1	0	0	1	21		10	2.74	0.75	7	17.63	13	0	T	T	7	58.0	2400
Scafide, Tony	Bethesda	66.1	42.9	54.5	87	15	28	1	0	0	1	19		23	3.23	0.84	7	<u>14.97</u>	14	0					2400
Shaw, Kevin	Gaithersburg 2 WNW	65.5	40.0	52.8	87	16	25	1	0	0	3				2.78	0.71	7	16.39	12	0	T	T	7	59.0	2400
Terry, Joe	Forest Glen	66.5	43.4	55.0	87	16	29	1	0	0	1	29	ENE+	17+	3.24	0.82	7	18.58	13	0	0.0	0.0		50.9	2400
Wash Gas Light	Rockville 1 NE	63.4	43.4	53.4	85	15	34	7+	0	0	0				2.55	0.76	7	<u>13.76</u>	10	0	T	T	7	57.8	2400
	<u>Prince Georges, Maryland</u>																								
Hudelson, Bill	South Bowie	64.2	43.1	53.7	87	16	28	1	0	0	1	29	NE+	10+	3.53	0.84	7	19.24	12	0	0.0	0.0		41.0	2400
Smith, Brian	Oxon Hill	66.7	44.1	55.4	87	15+	29	1	0	0	1				2.42	0.81	7	17.34	13	0	0.0	0.0		42.5	2000
	<u>St. Marys, Maryland</u>																								
Abell, Floyd	Hollywood	64.8	45.1	55.0	86	16	29	1	0	0	1	35		10	3.10	1.22	7	15.71	11	1	0.0	0.0		32.9	2400
Zyla, John	Ridge	64.4	47.4	55.9	86	16	34	1	0	0	0	31	NW	1	3.32	1.24		14.86	11	2	0.0	0.0		28.8	2400
	<u>Washington, Maryland</u>																								
Keefer, Greg	Hagerstown 1 E	63.7	40.2	52.0	84	15+	25	1	0	0	1	36	NW	5	3.59	0.80	7	14.58	13	0	0.4	0.4	7	59.3	2400
Vaughn, Jim	Smithsburg 2 NE	63.4	41.5	52.5	85	16	26	1	0	0	4	55	E	11	3.63	0.61	7	16.04	16	0	1.4	1.2	7	68.4	2000
	<u>Wicomico, Maryland</u>																								
NWS Salisbury	Wicomico Co. Apt	62.9	40.9	51.9	83	16	25	1	0	0	3	41	E	10	3.94	1.09	9	16.45	10	2	0.0	0.0		19.1	2400
	<u>York, Pennsylvania</u>																								
Rickell, Robert	Hanover 2 S, PA																	<u>13.31</u>						<u>67.6</u>	2100
	<u>Arlington, Virginia</u>																								
NWS Washington Nationa	National Airport	64.8	45.4	55.1	85	16	32	1	0	0	1	41	NE	10	2.55	0.68	7	14.61	10	0	0.0	0.0		40.4	2400
	<u>Loudon, Virginia</u>																								
NWS Washington Dulles	Dulles Airport	65.1	41.8	53.5	85	16	27	1	0	0	1	39	ENE	10	2.71	0.68	7	14.24	14	0	T	T	7	50.1	2400
SECTION AVERAGE		63.3	41.9	52.6											3.04						0.4				

NOTES:

M or UNDERLINE = MISSING DATA
 > = INCLUDED IN NEXT DAYS DATA

GARY GALLAHER 5/31/03

ACON MD / DE / DC
APRIL 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																																		2400 EDT																												
BEAR 2 SW, DE GALLAHER	57 24	77 36	64 44	47 41	50 40	53 37	41 33	37 35	42 36	49 38	45 39	68 44	60 36	65 32	78 41	86 60	71 38	47 38	64 44	68 35	62 41	68 47	58 39	64 39	67 40	58 53	69 47	77 39	77 46	73 49		61.4 40.4	2400 EST																													
WILMINGTON, DE NWS NEW CASTLE CO APT	56 28	76 37	63 42	48 40	49 40	52 36	41 32	38 35	42 36	50 38	47 39	68 45	61 40	62 35	77 46	86 59	60 38	48 37	65 43	67 37	57 44	69 45	59 41	64 38	68 41	59 53	69 49	76 43	78 49	70 51		60.8 41.2	2400 EST																													
U of D DE Climatologist Newark Pearson Hall	M 29	77 40	63 44	47 40	50 40	54 37	43 32	37 34	42 35	50 38	46 39	69 45	61 44	66 39	78 46	86 58	73 38	48 38	64 43	67 40	61 45	69 48	59 43	64 41	68 44	59 54	70 53	77 45	77 52	73 53		61.9 42.5	2400 EST																													
GEORGETOWN, DE NWS SUSSEX CO APT	58 28	77 45	64 43	49 43	60 43	54 39	43 39	40 38	42 39	43 38	47 41	67 44	62 41	65 37	77 46	85 59	66 39	45 40	58 42	61 43	66 41	71 51	60 44	63 35	72 46	61 53	72 48	77 42	83 54	67 50		61.8 43.0	2400 EST																													
GEORGETOWN, DE UofD RESEARCH & ED CTR	58 28	77 46	62 44	49 43	64 43	55 38	43 39	40 38	43 38	43 39	47 41	67 44	63 42	66 35	75 46	83 59	70 39	46 40	58 42	62 38	68 40	71 53	61 43	64 35	71 45	61 54	71 48	76 41	83 55	67 50		62.1 42.8	2400 EST																													
HARBESON, DE UofD WARRINGTON FARM	58 27	78 42	62 43	48 42	56 42	52 39	43 39	40 38	42 38	42 38	46 41	67 44	59 41	63 34	78 45	85 58	66 38	45 39	55 41	59 43	62 39	70 53	60 42	64 35	72 45	61 52	71 48	78 41	84 54	64 49		60.9 42.3	2400 EST																													
FROSTBURG LATTA	33 17	62 33	76 54	77 56	71 44	66 28	47 28	31 28	36 28	35 29	48 33	42 33	61 33	62 33	73 37	81 50	78 46	50 32	38 32	46 36	64 44	64 46	53 33	55 30	61 31	66 42	54 36	66 39	66 42	79 42	68 42		58.1 36.5	0700 EST																												
LAVALLE MULLINS	68 28	77 54	80 42	70 50	65 46	48 30	34 32	38 34	42 36	50 44	44 38	64 42	64 37	80 33	86 40	82 44	62 46	38 35	50 39	65 47	66 48	64 44	63 38	68 35	68 40	58 50	68 38	80 46	75 40	80 40		63.2 40.0	2400 EST																													
ST MARGARETS BRYANT	62 28	74 40	74 48	51 45	57 41	55 37	45 37	40 37	44 36	54 39	46 39	68 44	64 41	65 38	73 44	86 54	61 39	47 39	59 45	65 40	60 45	68 49	65 43	67 36	68 47	59 53	69 50	73 45	76 53	70 55		62.2 42.9	2400 EST																													
MILLERSVILLE 1SE HANSON	64 25	83 37	76 46	49 42	58 41	54 37	45 34	39 31	44 34	53 35	46 39	71 45	66 38	81 33	88 41	87 56	46 37	61 43	65 34	60 39	69 49	63 43	67 35	70 43	62 52	74 46	78 39	77 49	74 49		63.9 40.5	2400 EST																														
LOTHIAN JUG BAY	47 25	67 40	83 46	85 46	51 43	59 38	54 39	42 38	44 38	53 38	50 40	72 41	69 37	70 34	86 45	89 58	M 49	47 39	60 46	M 36	47 40	61 44	73 33	66 41	70 55	74 49	63 M	74 40	63 48	M 48	81 48	80 48		64.4 41.6	0900 EST																											
BALTIMORE NWS BWI APT	62 27	80 38	74 46	49 43	56 42	54 38	47 35	39 35	45 36	53 40	47 40	70 46	65 38	69 35	83 41	85 57	70 39	46 39	59 45	65 36	60 41	69 48	62 44	65 32	71 46	62 54	71 47	79 41	75 50	73 55		63.5 41.8	2400 EST																													
LAUREL 2 E STOUDT		***PRECIPITATION ONLY STATION***																																																												
PARKTON 5SW KREINIK	60 23	80 35	79 45	56 43	51 40	52 35	52 32	37 32	43 33	51 38	52 37	68 43	68 41	69 33	83 40	84 52	66 38	42 36	63 41	67 34	64 41	66 51	62 41	64 35	70 41	60 53	64 47	59 39	64 81	71 73	59 75		63.7 39.7	2200 EST																												
OWINGS MILLS 2SE SHARROW	59 24	79 36	80 46	46 41	52 39	51 34	43 31	37 31	42 32	51 35	44 36	68 42	61 39	70 35	84 41	84 53	66 40	42 34	62 36	70 43	60 50	64 40	59 35	64 42	71 50	59 47	69 40	81 50	73 49	75 49		62.2 39.7	2400 EST																													
BALTIMORE 2SE MANFRE	63 34	82 47	74 50	49 45	51 43	54 40	47 34	40 36	46 37	49 41	47 41	71 48	65 48	68 48	84 50	88 64	65 46	44 39	60 45	67 47	60 50	61 46	66 42	70 54	63 54	73 55	80 55	77 57	77 47	73 47		63.5 46.6	1800 EST																													
BALT INNER HARBOR MD SCIENCE CENTER	62 33	81 45	73 47	49 44	54 43	54 40	47 34	40 36	46 37	54 40	48 41	70 48	64 50	67 48	80 49	87 62	71 39	48 45	60 47	65 50	62 46	69 50	62 46	67 42	68 52	63 54	72 55	79 51	76 56	72 57		63.7 46.0	2400 EST																													
MANCHESTER 1SW CLOSE	59 27	78 46	78 47	47 40	51 38	51 33	40 30	33 30	40 32	49 37	44 36	68 42	62 43	69 48	82 81	83 61	66 35	42 33	61 41	66 42	61 45	65 44	59 39	65 34	70 47	69 51	77 48	77 52	74 59	73 51		61.3 41.8	2300 EST																													
WESTMINSTER 4 SSE HARTSOCK	59 24	75 39	78 49	58 43	54 40	53 33	43 32	37 32	43 33	50 37	48 37	65 41	60 43	67 35	78 43	84 54	63 40	41 34	60 39	68 38	61 45	62 51	58 41	63 33	72 43	61 52	68 47	75 43	76 49	77 49		61.9 40.6	2100 EST																													
WESTMINSTER 5 SSE KLEIN	55 21	72 40	75 48	51 41	51 38	50 31	40 30	36 30	40 31	47 35	42 35	63 42	57 37	64 37	75 41	80 55	67 37	40 33	58 41	65 38	62 45	65 39	55 33	60 44	67 50	58 46	64 45	71 52	71 47	71 47		59.1 39.5	2200 EST																													
MILLERS 4NE MILLER	59 25	77 37	76 46	67 43	51 39	51 33	48 32	35 31	41 33	52 37	50 36	67 43	67 41	69 38	81 45	82 56	80 43	46 34	62 40	67 38	64 42	58 50	64 40	69 36	69 45	68 52	77 48	76 42	72 48		63.4 40.8	1800 EST																														
FREDERICK 4 N FARFAN	64 26	80 36	81 45	54 46	58 43	52 44	44 33	38 33	42 35	51 39	48 38	66 46	65 36	74 36	85 46	86 54	66 39	42 36	60 42	66 37	64 42	65 48	61 42	66 37	72 44	60 52	72 43	81 38	77 47	75 45		63.8 40.9	2400 EST																													

ACON MD / DE / DC
APRIL 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				
EAGLE ROCK HARVEY	34	60	72	74	69	62	52	32	34	36	42	40	59	60	78	78	74	56	36	49	68	69	46	52	60	69	58	66	74	61		57.3	0800				
FALLSTON 2 NW ALBRIGHT	18	32	52	62	50	22	22	22	30	30	30	30	30	32	34	60	50	30	30	62	42	44	30	28	28	42	32	32	44	42		35.4	EST				
FALLSTON 2 NW ALBRIGHT	60	80	74	49	54	55	42	39	44	54	44	69	62	69	79	86	66	45	64	69	66	72	60	68	73	61	70	78	75	76		63.4	2400				
LAUREL JHU / APL GIANNOLA	22	34	43	41	40	35	33	33	34	37	38	44	38	31	39	50	37	36	39	34	40	47	42	36	41	53	42	38	46	46		39.0	EST				
LAUREL JHU / APL GIANNOLA	63	82	83	48	58	57	45	38	43	55	45	69	65	73	85	87	68	44	61	68	63	67	61	65	72	61	71	80	74	76		64.2	2400				
POTOMAC 4N COHEN	28	47	45	42	41	37	33	33	34	38	38	45	45	38	48	60	37	36	43	39	47	47	42	38	44	53	51	45	52	51		42.6	EST				
POTOMAC 4N COHEN	67	81	82	60	61	56	49	38	42	55	47	70	68	72	84	84	66	43	60	69	66	66	65	66	72	60	70	80	72	75		64.9	2100				
OLNEY 1 S GIANNOLA	28	42	48	47	44	38	35	35	36	39	39	46	39	38	47	56	40	38	43	40	47	52	44	38	46	56	47	43	54	50		43.2	EST				
OLNEY 1 S GIANNOLA	64	81	82	54	60	56	44	38	43	55	45	70	67	73	86	87	66	43	>	>	70	71	63	68	74	61	73	83	75	76		65.3	2400				
MONTGOMERY VILLAGE ROTH 1SW	26	42	51	42	42	36	34	34	35	38	38	44	38	38	49	56	38	37	>	>	39	48	43	37	46	54	47	44	52	51		42.1	EST				
MONTGOMERY VILLAGE ROTH 1SW	65	81	82	53	59	56	47	41	45	55	48	69	65	73	85	87	69	45	62	68	67	67	62	66	71	63	71	80	75	75		65.0	2400				
GLENMONT 1NNE ROSSEN	29	41	48	45	44	39	35	35	36	41	40	48	39	39	50	56	39	38	45	40	48	50	45	41	47	56	48	44	53	52		43.6	EST				
GLENMONT 1NNE ROSSEN	65	84	86	51	62	59	46	39	44	55	47	72	67	75	88	87	69	45	63	71	68	69	65	68	73	61	73	83	76	76		66.2	2400				
BETHESDA SCAFIDE	27	40	45	44	43	37	35	35	36	40	39	46	38	36	47	52	39	38	44	37	45	49	44	38	43	55	46	41	49	48		41.9	EST				
BETHESDA SCAFIDE	68	83	86	56	64	58	47	41	45	56	47	72	69	74	87	86	70	46	63	69	67	69	63	66	71	62	71	79	74	74		66.1	2400				
GAITHERSBURG 2WNW SHAW	28	45	51	45	42	37	34	33	34	39	37	45	40	40	49	57	38	38	42	40	46	48	43	39	47	53	48	43	53	52		42.9	EST				
GAITHERSBURG 2WNW SHAW	64	82	84	54	60	59	46	39	42	57	47	71	67	75	85	87	70	44	60	70	65	66	64	69	71	60	72	82	77	76		65.5	2400				
FOREST GLEN TERRY	25	35	42	44	40	35	32	32	34	37	37	44	39	34	44	57	36	35	44	36	42	46	44	34	44	53	41	38	49	46		40.0	EST				
FOREST GLEN TERRY	65	83	84	52	63	58	46	40	44	56	46	72	68	74	87	87	70	45	64	70	70	71	65	68	72	64	74	82	78	76		66.5	2400				
ROCKVILLE 1NE WASH GAS LIGHT	29	44	50	44	43	38	36	35	36	40	40	46	41	39	51	55	39	38	45	40	47	49	44	38	47	55	48	41	51	52		43.4	EST				
ROCKVILLE 1NE WASH GAS LIGHT	M	M	83	51	60	54	38	38	44	55	46	68	63	72	85	84	71	44	62	68	67	64	61	66	71	61	70	81	75	74		63.4	2400				
SOUTH BOWIE HUDELSON	M	M	49	43	43	36	34	34	35	39	37	46	43	36	50	60	38	37	43	37	56	49	42	38	43	54	50	41	50	53		43.4	EST				
SOUTH BOWIE HUDELSON	62	80	82	53	55	57	46	39	42	51	44	69	66	69	84	87	67	46	60	66	66	70	62	65	72	60	74	81	76	75		64.2	2400				
OXON HILL SMITH	28	42	48	45	44	38	36	35	36	41	38	44	39	36	47	59	40	38	44	38	43	50	45	40	45	54	51	40	55	53		43.1	EST				
OXON HILL SMITH	65	83	86	57	63	58	47	41	45	53	47	72	68	76	87	87	70	46	63	70	72	68	65	68	72	64	73	82	77	77		66.7	2000				
HOLLYWOOD ABELL	29	48	51	46	43	39	36	35	36	41	39	46	41	38	50	59	39	38	45	40	45	53	44	43	46	55	48	42	54	53		44.1	EST				
HOLLYWOOD ABELL	60	81	83	55	66	53	46	42	43	52	46	70	64	68	83	86	70	47	60	66	64	69	64	67	68	63	73	79	81	74		64.8	2359				
RIDGE ZYLA	29	55	49	46	46	42	39	39	38	41	41	46	42	38	52	62	40	45	40	45	40	45	53	46	37	47	55	47	43	58	53		45.1	EST			
RIDGE ZYLA	62	81	78	56	61	54	46	44	43	50	46	72	71	66	78	86	70	50	60	65	64	71	64	67	67	61	72	74	79	73		64.4	2400				
HAGERSTOWN 1E KEEFER	34	57	48	46	48	42	39	38	38	40	44	50	44	41	53	61	42	43	47	45	51	54	46	41	52	56	53	51	60	57		47.4	EST				
HAGERSTOWN 1E KEEFER	65	81	81	64	65	52	44	39	42	52	46	67	66	72	84	84	65	42	57	64	63	62	60	66	70	62	71	79	74	73		63.7	2400				
SMITHSBURG 2 NE VAUGHN	25	36	43	45	43	36	33	33	34	38	38	44	38	34	44	49	40	36	40	38	49	46	41	36	44	52	44	37	47	44		40.2	EST				
SMITHSBURG 2 NE VAUGHN	63	79	79	67	62	52	44	39	41	49	45	67	63	71	83	85	67	42	60	67	63	64	58	64	71	60	69	78	74	75		63.4	2000				
SALISBURY NWS WICOMICO CO APT	26	39	55	45	41	34	31	31	32	39	37	43	40	38	49	58	39	33	39	44	51	45	39	34	44	53	46	43	51	47		41.5	EST				
SALISBURY NWS WICOMICO CO APT	60	78	74	50	68	54	43	41	43	43	47	66	63	67	76	83	69	49	58	62	66	72	61	63	70	61	71	77	82	69		62.9	2400				
HANOVER 2 S, PA RICKELL	25	50	44	43	44	38	38	38	39	39	39	43	39	33	31	44	58	39	41	42	38	39	51	44	27	38	53	38	35	50	45		40.9	EST			
HANOVER 2 S, PA RICKELL																																			2100	EDT	
WASH NATIONAL NWS ASOS																																				2100	EDT
WASH NATIONAL NWS ASOS	63	80	83	54	59	56	48	41	46	52	48	70	66	69	83	85	71	47	62	67	68	67	63	66	69	63	71	76	76	74		64.8	2400				
WASH DULLES NWS ASOS	32	45	51	46	45	40	37	37	38	42	40	48	44	43	50	57	40	39	46	44	49	48	45	43	49	56	51	47	57	54		45.4	EST				
WASH DULLES NWS ASOS	65	81	81	60	63	55	47	40	43	55	47	70	65	73	84	85	70	43	61	70	68	66	63	65	70	62	71	79	75	75		65.1	2400				
WASH DULLES NWS ASOS	27	38	44	46	43	38	35	35	36	41	39	47	36	36	50	57	39	38	42	37	44	52	45	37	41	55	44	37	48	47		41.8	EST				

ACON MD / DE / DC
APRIL 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																																	2400 EDT		
BEAR 2 SW, DE GALLAHER				T	T		0.54 0.8	T	0.43		0.86	0.16					0.06	0.07			T	0.09			0.23	0.50			T			2.94 0.8	2400 EDT		
WILMINGTON, DE NWS NEW CASTLE CO APT	T		T	T	0.01		0.39 T		0.45	T	0.75	0.15					T	0.18				0.03			0.28	0.38			T			2.62 T	2400 EST		
U of D DE Climatologist Newark Pearson Hall							0.27		0.26		0.61	0.09						0.14				0.10			0.16	0.33			0.01			1.97	2400 EDT		
GEORGETOWN, DE NWS SUSSEX CO APT	T		T	T	0.05		0.53	0.04	1.01	0.48	0.69	0.33					T	0.24			T	T			0.28	0.06			T			3.71	2400 EST		
GEORGETOWN, DE UofD RESEARCH & ED CTR					0.01		0.58	0.01	0.94	0.25	0.73	0.35						0.09							0.21	0.07	0.03					3.27 0.0	2400 EST		
HARBESON, DE UofD WARRINGTON FARM					0.03		0.55	0.02	1.09	0.28	1.04	0.58						0.25				0.01			0.30	0.11						4.26 0.0	2400 EST		
FROSTBURG LATTA	0.02 0.2				0.52	0.05	0.56 1.0	0.70 0.5	0.16	0.18	0.45	0.09					0.01	T	0.13	0.01		0.19	0.03			0.13	0.06					3.29 1.7	0700 EDT		
LAVALE MULLINS	T			0.15	0.44		1.33 1.0	T	0.36	T	0.56							0.08	0.02		0.25	0.02			0.07	0.21			T	0.06		3.55 1.0	2400 EDT		
ST MARGARETS BRYANT					0.01		0.57	0.05	0.60	0.03	0.42	0.04						0.26				T			0.15	0.76							2.89 0.0	2100 EDT	
MILLERSVILLE 1SE HANSON							0.82	0.03	0.59		0.52	0.05						0.08	0.02						0.40	0.69							3.20 0.0	2400 EDT	
LOTHIAN JUG BAY	0.01	T			0.02	T	0.21	0.65	0.51	0.27	0.64	0.09	T					0.21	0.07							0.41	0.08			T			3.17 0.0	0900 EDT	
BWI NWS ASOS	T			T	T		0.66 T	T	0.40	0.04	0.28	0.02					T	0.14	T		0.01	T			0.42	0.37			T	0.06			2.40 T	2400 EST	
LAUREL 2 E STOUDT	T				0.03		0.80 T	0.02	0.53	0.05	0.62							0.15	T			0.05			0.48	0.39			0.02	0.13			3.27 T	2400 EST	
PARKTON 5SW KREINK					0.01		0.60 0.5	0.05	0.42	T	0.52						T	0.24			T	0.01				0.66	0.44		0.02					2.97 0.5	2200 EDT
OWINGS MILLS 2SE SHARROW	0.01			T	0.03		0.62 0.1	0.06	0.47		0.43	0.04					0.07	0.25	0.01		T	0.01			0.20	1.44			0.03				3.67 0.1	2400 EDT	
BALTIMORE 2SE MANFRE	T				0.02		0.86 T	0.01	0.46		0.42	0.02					T	0.12	0.03		0.01	T			0.36	0.75			T	0.08			3.14 0.0	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER					0.01		0.75		0.43	0.05	0.33	0.02						0.14	0.01		0.01				0.40	0.49				0.09				2.73 -	2400 EST
MANCHESTER 1SW CLOSE	T			T	0.02		0.63 1.5	0.01	0.35		0.26	T					0.05	0.21	0.03		0.07	0.11			0.19	0.46 0.0	0.0		0.02				2.41 1.5	2300 EDT	
WESTMINSTER 4 SSE HARTSOCK	T				0.04		0.79 0.5	T	0.42		0.25	T					0.03	0.13	0.01			0.12			0.09	0.54			0.03				2.45 0.5	2100 EDT	
WESTMINSTER 5 SSE KLEIN					0.02		0.65 0.5	0.03	0.43									0.03	0.13	0.03			0.12			0.13	0.49							2.06 0.5	2200 EDT
MILLERS 4NE MILLER	T				0.05		0.65 1.5	0.05 T	0.33	T	0.37	0.03					T	0.20	0.05		0.01	0.12				0.73	0.01		0.02					2.62 1.5	1800 EDT
FREDERICK 4 N FARFAN	T T			0.01	0.03		0.75 0.4	0.01	0.52		0.40						0.03	0.21	0.04		0.04	0.09		0.01	0.18	0.08								2.40 0.4	2400 EDT

ACON MD / DE / DC
APRIL 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	
EAGLE ROCK HARVEY	0.15				0.64		0.77	0.25	0.50	0.10	0.62	0.22					0.07	T	0.13	0.03	0.12	0.08	0.04							T		3.81	800 EDT	
FALLSTON 2 NW ALBRIGHT					0.03		0.81	0.02 0.5	0.44		0.49	0.03					0.04	0.41			0.03				0.34	0.59			T			3.23	2400 EDT	
LAUREL JHU / APL GIANNOLA	T				0.03		1.01 T	0.02	0.64		0.62							0.10	0.03		0.01	0.01			0.42	0.62			T	0.14		3.65	2400 EDT	
POTOMAC 4N COHEN	T T				0.02		0.74 T	0.03	0.54		0.35						T	0.14	0.16		0.02	T			0.18	0.48			T			2.66	2100 EDT	
OLNEY 1 S GIANNOLA					0.04		0.79 T	0.02	0.49		0.49						T	>	0.16		0.03	0.03			>	0.85			T	0.08		2.98	2400 EDT	
MONTOGMERY VILLAGE ROSS					0.04		0.79	0.01	0.51		0.43							0.36	0.05		0.04	0.24			0.24	0.20			0.02	0.04		2.97	2400 EDT	
GLENMONT 1NNE ROSSEN	T				0.03		0.75 T	0.01	0.51	0.02	0.35					T	T	0.10	0.02		0.01	T			0.36	0.43			0.01	0.14		2.74	2400 EST	
BETHESDA SCAFIDE					0.02		0.84	0.01	0.56		0.42						0.01	0.19	0.14		0.02				0.25	0.54	0.01		0.02	0.20		3.23	2400 EDT	
GAITHERSBURG 2WNW SHAW	T			T			0.71 T	0.04	0.58	0.17	0.23	0.02					T	0.34	0.04		0.05	0.20			0.25	0.15			T			2.78	2400 EDT	
FOREST GLEN TERRY					0.02		0.82	0.02	0.54	T	0.36						T	0.08	0.02		0.01	0.01			0.28	0.52			0.01	0.55		3.24	2400 EDT	
ROCKVILLE 1NE WASH GAS LIGHT	M	M		T	T		0.76 T	0.01	0.47	T	0.28						T	0.27	0.01			0.06			0.23	0.38				0.08		2.55	2400 EDT	
SOUTH BOWIE HUDELSON					0.02		0.84	0.03	0.75	0.03	0.77	0.03						0.26	0.02			T			0.43	0.25			T	0.10		3.53	2400 EDT	
OXON HILL SMITH	0.01				0.01		0.81 T	0.02	0.63	0.05	0.27	T					T	0.16	0.03			0.03			0.21	0.09			T	0.10		2.42	2000 EDT	
HOLLYWOOD ABELL	0.03				0.04		1.22	0.01	0.81	0.10	0.32	T					T	0.21	T			0.03			0.16	0.17			T			3.10	2359 EDT	
RIDGE ZYLA	0.02				0.04		1.24	0.01	1.01	0.20	0.21							0.09				T				0.26	0.11	0.13				3.32	2400 EDT	
HAGERSTOWN 1E KEEFER	T T			0.13	0.04		0.80 0.4		0.58 T		0.42						0.12	0.29	0.38		0.26	0.28			0.10	0.14			0.05	T		3.59	2400 EDT	
SMITHSBURG 2 NE VAUGHN	0.02 0.2			0.05	0.21		0.61 1.2	0.09 T	0.57 T		0.39						0.05	0.28	0.32		0.48	0.17			0.13	0.16	0.02		0.08	T		3.63	2000 EDT	
SALISBURY NWS WICOMICO CO APT	T				0.02		1.03	0.11	1.09	0.58	0.36	0.40					T	0.02				T			0.26	0.07						3.94	2400 EST	
HANOVER 2 S, PA RICKELL																																		2100 EDT
WASH NATIONAL NWS ASOS	T				T		0.68	T	0.51	0.07	0.18							0.12	0.01		T	0.15			0.37	0.33			T	0.13		2.55	2400 EST	
WASH DULLES NWS ASOS	T				0.03		0.68 T	0.04	0.51	0.06	0.28						T	0.44	0.20		0.02	0.03			0.16	0.15			0.01	0.10		2.71	2400 EST	