



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

MID MONTH HEAT DEADLY TORNADO HITS LAPLATA

April 2002 will be remembered for the deadly F4 tornado which in a matter of minutes left its marks on portions of Charles, Calvert, and Dorchester counties in southern Maryland. Temperatures again averaged above normal, much to the thanks of an early season mid-month heat wave. Precipitation this month ranged from below normal in the northern regions to normal or above in the southern areas.

DEADLY TORNADO

The region was under a tornado watch on the afternoon and evening of the 28th when a super cell severe thunderstorm, which produced a small tornado as it crossed I-81 in Virginia, unleashed a deadly tornado on southern Maryland around 5:30 PM. According to NWS reports it touched down between Risen and Marbury in Charles County and intensified into a F4 tornado as it moved east through La Plata. The tornado weakened and continued its eastward movement into Calvert County and over the Chesapeake Bay. Its path was about 400 yards wide and did over 100 million dollars worth of damage while killing five (5) people. The tornado crossed the Chesapeake Bay into Dorchester County and dissipated after traveling 68 miles.

PRECIPITATION

Dry conditions continued this month across the northern portions of the region. Totals from New Castle County Delaware westward to Washington county Maryland failed to reach the three (3) inch mark while the central and southern regions precipitation totals were in the three to five (5) inch range.

Precipitation fell on 1/3rd of the days this month and was scattered fairly evenly throughout the month. Daily amounts were generally 1/3rd of an inch or less.

There was one day which the entire region saw at least 1 inch of rain,

that was the 28th, the day of the La Plata Tornado. All ACON observers except for **Greg Keefer of Hagerstown 1 E**, **Jim Vaughn of Smithsburg 2 NE**, and **Robert Rickell of Hanover 2 S PA** reported over an inch. **Rebecca Harvey of Eagle Rock** reported 2", the greatest amount.

A stationary thunderstorm dumped heavy flash flooding rains on Anne Arundel County late in the afternoon of the 18th. According to NWS radar upwards of 5 inches fell in spots. The heaviest amount reported by our ACON observers was 2.83" by **Dan Hanson of Millersville 1 SE**. **Jeff Stoudt of Laurel 2 E** reported 1.68" and NWS at BWI reported 1.23".

Hail was reported by the following observers: **Rob Cohen of Potomac 4 N** on the 2nd, **Rich Giannola of Olney 1 S** on the 28th, BWI NWS on the 28th, and **John Zyla of Ridge** on the 3rd. See Observer Notes for details.

Snow Flurries were reported by many observers on the 5th and on the 6th.

TEMPERATURE

Temperatures this month again averaged above normal. This was mainly due to the summer-like weather from the 14th to the 20th. Maximum temperature were in the 80's and 90's while the minimum temperatures were in the 50's and 60's. Many ACON observers reported station record temperatures (see Observer Comments). **Rebecca Harvey of Eagle Rock**, **Jim Vaughn of Smithsburg 2 NE**, and **Robert Rickell of Hanover 2 S PA** were the only ACON observers not to record a 90 degree reading. This warm period was sandwiched between two cold spells. Temperatures on the morning of the 7th fell into the low to mid 20's. The morning of the 24th saw temperatures fall into the upper 20's and low 30's at stations that radiate well. Salisbury NWS on the Eastern Shore fell to 30 degrees.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	97
Bethesda	97

MINIMUM TEMPERATURE

Eagle Rock	16
Hanover 2 S	20

WARMEST AVG. TEMP.

Baltimore 2 SE	60.0
Ridge	59.9

COLDEST AVG. TEMP.

Eagle Rock	49.1
Hanover 2 S	53.3

MAXIMUM PRECIPITATION

Eagle Rock	6.36
Millersville 1 SE	5.98

MINIMUM PRECIPITATION

Bear 2 SW DE	2.27
Millers 4 NE	2.57

MAXIMUM SNOWFALL

Eagle Rock	4.3
Millers 4 NE	0.1

Member Notes

Floyd Abell

Floyd is recovering nicely. He is back on his weather line. Many thanks to **John Zyla** who assisted Floyd with his April report.

Lynn Albright

Lynn's husband has undergone colon cancer surgery. Lets keep them both in our prayers.

Brian Smith

Brian is our latest new member. He publishes the Washington-Baltimore Climate Review. His station is located at Oxon Hill. Welcome Brian!

OBSERVER COMMENTS FOR APRIL 2002

Jim Canavan of Wilmington 4 NNE DE

6th—1/2" of snow on grass.

Gary Gallaher of Bear 2 SW, DE

Another month with above normal temperatures and below normal precipitation. The minimum temperatures set an April record by not falling below 60 degrees for four (4) days breaking the record of two (2) set in 1973 and tied in 1984.

7th—22 degrees—Asparagus froze in the garden.

16th—Earliest 90 degree temperature on record.

17th—94 degrees—tied the April maximum temperature set on April 22, 1985.

Dan Hanson of Millersville 1 SE

7th — 24 degrees tied station April record low.

18th—Storms dropped 2.83" of rain in only a couple of hours in the late afternoon . Flooded basements and roadways resulted from the sudden inundation. Intense lightning knocked my weather observing computer offline.

Jeff Stoudt of Laurel 2 E

18th—During the late afternoon this location was on the edge of a nearly stationary thunderstorm complex and collected 1.68". Some neighborhoods only a mile or so away got little or no rain while others a short distance the opposite direction probably got even more.

Al Kreinik of Parkton 5 SW

3rd—Temperature drops from 72 degrees at 11 AM to 44 degrees at 3 PM.

5th—Snow flurries at 10:30 AM, 9 PM and at 9:30 PM.

17th—Record heat 93 degrees broke the April record of 92 set on 4/18/76.

Marty Sharrow of Owings Mills

22nd—Predawn rain then slow clearing and windy.

Joe Manfre of Baltimore 2SE

Finally a month with above normal precipitation.

Herb Close of Manchester 1 S

Ralph Hartsock of Westminster 4 SSE

5th — Scattered snow showers and cold.

24th —Frosty start—Sunny and mild.

Bobby Miller of Millers 4 NE

13th—1/8 mile visibility in heavy fog at 6 AM.

17th—90 degrees – The first 90 degree reading in the month of April in station history (since 1982). Old monthly record was 89 degrees set on 4/27/90.

18th—66 degrees—highest minimum temperature on record. Old was 65 set on 4/9/91.

Lynn Albright of Fallston 2 NW

18th—Temperature dropped 21 degrees between 2:15PM and 4:45 PM.

Rich Giannola of Olney 1 S

17th—Earliest date the temperature reached 90 degrees in 16 years of records.

28th—Hail (0.25" to 0.50" dia.) from 6:56PM to 6:58 PM.

Rob Cohen of Potomac 4 N

2nd—Hailstorm at place of employment near Shady Grove Road and Gaither Road. Marble sized to golf ball sized hail fell along with brief gusty winds and near zero visibility. No hail was observed at my station.

14th to 18th — Record maximum temperature each day. 94 degrees on the 17th set an April record.

28th—1.89" of rain, the most rain since 8/1/01.

Stan Rossen of Glenmont

16th—94 degrees breaks the April record of 93 set on April 22, 1985 and tied on April 27, 1994.

17th—96 degrees set a record for the maximum temperature in April.

18th—65 degrees minimum temperature tied April maximum minimum record set on April 30, 1983 and tied on April 9, 1991.

Kevin Shaw of Gaithersburg 2 WNW

Spectacular record smashing heat wave in the middle of the month (average maximum 88 degrees, average minimum 59.4 degrees for the period from the 14th to the 20th.)

17th—94 degrees set an April maximum temperature. Old was 92 set on 4/27/92.

Joe Terry of Forest Glen

21st—Falling temperatures all day. This afternoon was 45 to 50 degrees cooler than the afternoon of the 19th.

25th—Dramatic drying: 30 degree dew point drop in 6 hours (1300—1900).

28th—Beneficial rain all night. Rain continued unabated even well after warm frontal passage @ 0630. Highest daily rainfall since last July 4th.

Bill Hudelson of South Bowie

18th—Severe thunderstorm at 1700 hours with frequent lightning. 1" of rain fell in 20 minutes and 1.40" fell in 30 minutes.

John Zyla of Ridge

3rd—Temperature dropped 48 degrees in 16 hours—from 84 to 36 degrees, a station record.

6th—Snow flurries 7:45 AM to 8:05 AM.

Greg Keefer of Hagerstown 1 E

16th—90 degrees—the earliest 90 degree day on record. The previous 1st 90 degree reading was April 17, 1976.

17th—93 degrees a record high. Old record was 90 set on April 17, 1976.

Jim Vaughn of Smithsburg 2 NE

This was the thirteenth consecutive month with below normal precipitation. Snowfall this season of 7.0" broke the record minimum total of 12.3" set in the 1994-95 season.

5th—Freezing rain

17th— 89 degrees—third warmest April temperature.

Rob Rickell of Hanover 1 S, PA

5th & 6th—Snow flurries and windy.

14th,15th,16th, 18th,19th, & 28th—Thunder

ACON MD /DE / DC
APRIL 2002 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 CAL	DATE	DAYS >=.01"	DAYS >=1"	YEAR	TOTAL	MAX CAL		DATE	SEA-SON
<i><u>New Castle, Delaware</u></i>																									
Canavan, Jim	Wilmington 4 NNE	65.2	45.2	55.2	93	17	23	7	4	0	3				2.80	1.07	28	13	1	11.85	0.5	0.5	6	5.5	2400
Gallaher, Gary	Bear 2 SW	67.1	44.1	55.6	94	17	22	7	2	0	5	46	NW	3	2.27	1.27	28	12	1	9.66	T	T	6	5.0	2400
Wilmington NWS ASOS	NCC Airport	66.4	44.9	55.7	92	17	26	7	1	0	3	47	WNW	3	2.26	0.97	28	12	0	9.46	T	T	6	2.4	2400
<i><u>Sussex, Delaware</u></i>																									
Georgetown NWS ASOS	Sussex Co. Airport	68.4	46.7	57.6	94	17	28	7	1	0	4	37	SW	9	3.08	1.38	28	12	1	11.92	0.0	0.0			2400
U of D Research & Ed Ct	Georgetown	68.3	46.0	57.2	93	17	25	7	1	0	3				2.60	1.33	28	12	1	10.70					2400
<i><u>Anne Arundel, Maryland</u></i>																									
Baltimore NWS ASOS	BWI Airport	68.1	45.3	56.7	93	17	26	7	2	0	2	52	SSE	18	4.08	1.43	28	10	2	10.38	0.0	0.0		2.3	2400
Hanson, Dan	Millersville 1 SE	70.3	45.2	57.8	94	17	24	7	3	0	4	37	WNW	29	5.98	2.83	18	13	2	12.22	0.0	0.0		2.5	2400
Jug Bay Wetlands	Lothian	70.3	45.9	58.1	97	18	23	7	3	0	7				3.71	1.08	28	13	1	10.45					0900
Stoudt, Jeff	Laurel 2 E														5.02	1.68	18	11	2	11.79	0.0	0.0		2.6	2400
<i><u>Baltimore, Maryland</u></i>																									
Kreinik, Al	Parkton 5 SW	66.8	42.5	54.7	93	17	23	7	1	0	5	46	NW	3	3.05	1.25	28	14	1	9.44	T	T	5+	6.2	2200
Sharrow, Marty	Owings Mills 2 SE	67.9	43.3	55.6	92	17	22	7	3	0	4	38		22	3.24	1.34	28	11	1	10.50	T	T	5	6.7	2400
<i><u>Baltimore City, Maryland</u></i>																									
Manfre, Joe	Baltimore 2 SE	69.6	50.4	60.0	95	17	33	6	3	0	0				3.75	1.53	28	11	1	11.22	0.0	0.0		2.8	1800
Maryland Science Ctr	Baltimore Inner Harbor	68.6	49.8	59.2	95	17	34	6	2	0	0				3.09	1.33	28	12	1	9.55					2400
<i><u>Carroll, Maryland</u></i>																									
Close Jr, Herb	Manchester 1 SW	66.5	44.0	55.3	93	17	26	6	1	0	4	43		22	2.67	1.06	28	15	1	9.20	T	T	5+	8.9	2300
Hartsock, Ralph	Westminster 4 SSE	66.3	43.2	54.8	89	18	22	7	0	0	5				2.85	1.32	28	13	1	9.79	T	T	5	6.6	2200
Miller, Bobby	Millers 4 NE	66.3	44.0	55.2	90	17	24	7	1	0	5	38	SSW	30	2.57	1.13		14	1	9.87	0.1	0.1	5	8.2	1800
<i><u>Charles, Maryland</u></i>																									
Brumback, Marty	Bryans Head 2 ESE																			5.87M				3.7M	2400
<i><u>Garrett, Maryland</u></i>																									
Harvey, Rebecca	Eagle Rock	60.2	38.0	49.1	84	17	16	7	0	0	14				6.36	2.00	28	17	2	16.07	4.3	2.0	1+	60.8	0800
<i><u>Harford, Maryland</u></i>																									
Albright, Lynn	Fallston 2 NW	68.3	41.3	54.8	93	17	21	7	3	0	7				3.40	1.36	28	14	1	11.91	0.0	0.0		5.8	2400
<i><u>Howard, Maryland</u></i>																									
Giannola, Rich	Laurel JHU / APL	68.6	45.3	57.0	94	17	27	7	4	0	4	39	SE	28	3.92	1.97	28	10	1	11.72	0.0	0.0		4.0	2400
<i><u>Montgomery, Maryland</u></i>																									
Cohen, Rob	Potomac 4 N	70.0	47.3	58.7	94	17	26	7	2	0	2				3.41	1.89	28	8	1	10.24	0.0	0.0		2.7	2100
Giannola, Rich	Olney 1 S	69.4	45.9	57.7	92	17	24	7	2	0	4				3.02	1.76	27-28	8	1	9.39	0.0	0.0		4.0	2400
Rossen, Stan	Glenmont 1 NNE				96	17									3.18	1.58	28	8	1	9.42	0.0	0.0			2400

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APRIL 2002 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 CAL	DATE	DAYS >=.01"	DAYS >=1"	YEAR	TOTAL	MAX CAL		DATE	SEA- SON
Scafide, Tony	Bethesda	71.6	48.1	59.9	97	17	29	7	3	0	1	29		19	3.41	1.96	28	9	1	7.89M	0.0	0.0		3.0M	2400
Shaw, Kevin	Gaithersburg 2 WNW	70.4	43.8	57.1	94	17	22	7	4	0	5				3.23	1.67	28	11	1	9.54	0.0	0.0		5.5	2400
Terry, Joe	Forest Glen	70.8	46.6	58.7	95	17	27	7	4	0	3	34	SW	19	3.62	2.01	28	10	1	9.78	0.0	0.0		4.1	2400
Wash Gas Light	Rockville 1 NE	68.8	46.5	57.7	91	17	27	7	2	0	3				3.06	1.62	28	8	1	8.32	0.0	0.0		2.6	2400
	<i>Prince Georges, Maryland</i>																								
Hudelson, Bill	South Bowie	70.2	47.1	58.7	94	17	32	6	3	0	1	36	NW	3	4.90	1.72	18	11	2	11.34	0.0	0.0		2.8	2400
Smith, Brian	Oxon Hill	69.2	45.8	57.5	95	16	28	7	3	0	1				3.23	1.52	28	8	1	8.83	0.0	0.0			2200
	<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	70.8	48.8	59.8	93	17	28	7	1	0	2	33		9	3.06	1.15	28	13	1	10.61	0.0	0.0		8.3	2400
Van Wie, Michael	Oraville														0.00	0.00		0	0	7.48M	0.0	0.0		8.0	2400
Zyla, John	Ridge	69.5	50.3	59.9	88	18+	33	7	0	0	0	34	NE	3	3.73	1.64	28	9	1	12.37	0.0	0.0		7.4	2400
	<i>Washington, Maryland</i>																								
Keefer, Greg	Hagerstown 1 E	67.5	43.2	55.4	93	17	22	7	3	0	5	40	NW	22	2.74	0.89	28	12	0	9.57	0.0	0.0		7.0	2400
Vaughn, Jim	Smithsburg 2 NE	66.6	43.4	55.0	89	17	23	7	0	0	6	45	NW	28+	2.75	0.78	28	9	0	8.87	T	T	3+	6.9	2000
	<i>Wicomico, Maryland</i>																								
Salisbury NWS ASOS	Wicomico Co. Apt	68.7	43.7	56.2	92	17	26	6+	1	0	9	48	NW	3	4.39	1.23	28	12	1	14.52	0.0	0.0		6.1	2400
	<i>York, Pennsylvania</i>																								
Rickell, Robert	Hanover 2 S, PA	65.0	41.6	53.3	89	17	20	7	0	0	6				3.59	0.95	28	16	0	10.17	T	T	5+	9.6	2100
	<i>Arlington, Virginia</i>																								
Wash National NWS	National Airport	70.3	49.6	60.0	95	17	32	7	3	0	1	47	WSW	18	3.47	1.37	28	11	1	8.63	0.0	0.0		3.2	2400
	<i>Loudon, Virginia</i>																								
Wash Dulles NWS ASOS	Dulles Airport	69.5	44.1	56.8	93	17	22	7	3	0	5	44	W	19	3.45	1.68	28	12	1	8.62	0.0	0.0		2.6	2400
SECTION AVERAGE		68.3	45.3	56.8											3.38										

NOTES:

M = MISSING DATA

> = INCLUDED IN NEXT DAYS DATA

Glenmont 1 NNE data preliminary. Final data to be published in a later edition.

GARY GALLAHER 5/25/02

ACON MD / DE / DC
APRIL 2002 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	57	64	77	53	49	49	49	68	75	67	66	55	66	78	84	91	93	90	90	75	54	56	38	34	55	65	66	67	57	67		65.2	2400		
CANAVAN	43	35	54	37	26	29	23	35	53	52	33	41	48	58	59	63	62	67	59	61	49	47	38	35	40	35	38	47	53	35		45.2	EDT		
BEAR 2 SW, DE	59	60	76	50	46	46	49	67	76	65	65	56	74	78	82	90	94	89	85	80	58	62	56	61	59	63	64	72	66	64		67.1	2400		
GALLAHER	38	35	42	35	27	32	22	32	58	48	35	43	53	60	63	63	59	63	57	58	45	45	37	29	38	33	39	51	47	37		44.1	EDT		
WILMINGTON, DE	59	61	76	51	46	47	48	66	76	66	65	55	72	75	81	89	92	87	85	78	57	63	56	59	59	63	61	70	64	64		66.4	2400		
NWS N. CASTLE CO APT	39	37	39	34	30	32	26	39	53	48	40	43	53	59	62	63	60	65	59	55	45	43	40	34	42	36	41	49	45	37		44.9	EST		
GEORGETOWN, DE	61	65	80	52	48	46	51	69	79	65	61	65	76	82	81	89	94	87	85	82	61	66	56	61	59	62	60	75	70	64		68.4	2400		
NWS SUSSEX CO APT	42	34	45	36	32	32	28	32	58	42	36	49	57	60	65	65	62	66	65	60	50	48	37	35	41	41	39	55	49	40		46.7	EST		
GEORGETOWN, DE	61	66	79	52	49	47	52	68	77	64	60	67	76	81	81	89	93	86	84	81	61	66	56	62	60	61	60	75	70	64		68.3	2400		
U OF D RES & ED CTR	39	33	45	35	32	29	25	35	59	42	35	48	57	61	64	65	62	64	64	60	49	48	37	34	41	39	38	53	49	39		46.0	EST		
BALTIMORE	58	66	75	52	49	47	50	69	76	67	65	59	74	78	83	90	93	89	86	80	60	67	57	62	62	64	62	73	62	69		68.1	2400		
NWS BWI APT	36	34	40	34	35	31	26	38	59	45	38	47	55	57	60	62	60	63	57	65	45	44	38	38	40	36	37	51	47	42		45.3	EST		
MILLERSVILLE 1SE	61	68	78	55	52	49	53	69	78	69	67	62	74	80	88	90	94	90	85	82	62	69	59	64	65	68	64	76	67	72		70.3	2400		
HANSON	37	32	42	32	34	30	24	39	56	44	36	47	54	58	61	62	59	62	59	62	47	46	39	34	42	37	39	52	48	43		45.2	EDT		
LOTHIAN	55	63	73	82	56	53	50	53	72	78	68	67	66	77	75	88	93	97	91	85	84	58	70	60	62	64	66	66	76	62		70.3	0900		
JUG BAY	43	31	56	31	30	34	23	36	50	50	31	44	50	61	65	61	61	66	61	62	55	47	38	33	46	31	31	52	55	43		45.9	EDT		
LAUREL 2 E																																			
STOUDT																																			
PARKTON 5SW	57	64	72	51	48	44	51	66	72	64	64	61	73	76	80	88	93	88	89	77	58	65	55	62	58	63	62	72	63	67		66.8	2200		
KREINIK	35	33	39	31	25	29	23	39	56	43	34	42	54	53	59	58	57	61	57	58	42	41	34	30	43	35	34	48	45	37		42.5	EDT		
OWINGS MILLS 2SE	56	67	72	51	46	44	55	69	74	64	68	62	74	79	81	91	92	91	89	79	56	64	55	67	59	64	67	69	63	70		67.9	2400		
SHARROW	41	36	39	30	26	28	22	36	53	43	35	42	54	57	57	60	60	63	58	56	43	40	35	34	45	35	37	48	45	40		43.3	EDT		
BALTIMORE 2SE	59	65	76	52	55	49	47	66	74	69	66	59	73	79	86	92	95	90	86	82	64	69	58	63	68	65	64	74	68	74		69.6	1800		
MANFRE	47	45	43	38	36	33	34	44	57	50	48	47	57	62	65	66	65	69	65	70	49	46	42	45	51	46	47	52	48	46		50.4	EDT		
BALT INNER HARBOR	59	65	76	52	49	47	50	67	76	67	65	58	74	78	85	91	95	89	86	82	61	68	58	61	62	65	62	74	66	70		68.6	2400		
MD SCIENCE CENTER	47	45	43	38	36	34	35	43	58	50	48	47	57	61	65	65	65	68	65	61	44	44	41	45	50	45	46	52	49	46		49.8	EST		
MANCHESTER 1SW	56	67	71	51	47	46	50	67	69	62	65	63	70	78	80	89	93	89	89	77	56	62	55	61	59	64	61	70	64	65		66.5	2300		
CLOSE	38	38	35	28	28	26	27	37	55	42	42	41	53	57	59	66	67	64	61	56	40	38	33	36	44	40	40	48	42	38		44.0	EDT		
WESTMINSTER 4SSE	53	67	70	51	48	45	49	66	71	61	62	66	72	80	80	85	87	89	87	80	59	62	62	59	63	60	63	72	54	66		66.3	2200		
HARTSOCK	42	34	39	30	26	27	22	37	53	43	38	43	53	54	53	59	60	67	60	59	41	40	34	32	44	38	36	48	44	39		43.2	EDT		
MILLERS 4NE	54	65	68	50	45	44	51	66	70	63	66	63	71	77	79	86	90	88	87	78	63	61	54	61	60	63	63	72	68	64		66.3	1800		
MILLER	43	35	42	31	26	28	24	39	55	43	37	40	53	53	59	62	63	66	61	63	41	40	34	31	44	38	37	48	45	39		44.0	EDT		
BRYANS ROAD 2 ESE																																			
BRUMBACK																																			
EAGLE ROCK	48	44	52	46	38	40	34	60	74	64	66	70	72	60	70	82	84	82	81	82	62	54	54	40	66	54	58	60	70	40		60.2	0800		
HARVEY	32	32	42	20	22	19	16	30	50	32	32	34	38	50	50	53	62	60	60	59	50	38	28	27	28	32	30	42	38	34		38.0	EDT		
FALLSTON 2 NW	58	66	76	52	48	48	51	66	77	65	66	62	76	80	84	91	93	91	87	82	54	63	57	64	59	65	67	73	59	70		68.3	2400		
ALBRIGHT	33	32	36	31	24	28	21	36	53	38	33	37	56	56	58	59	58	59	57	57	43	40	35	30	35	32	35	50	43	35		41.3	EDT		
LAUREL JHU / APL	57	70	74	51	49	44	53	70	73	67	66	62	73	80	84	91	94	92	90	80	58	65	55	64	61	65	64	73	63	69		68.6	2400		
GIANNOLA	39	36	38	32	32	30	27	38	56	46	38	45	55	58	61	63	61	65	60	58	43	42	36	37	45	39	39	50	46	43		45.3	EDT		
POTOMAC 4N	60	72	74	52	51	48	58	74	74	68	70	61	74	83	86	93	94	89	88	79	66	65	57	65	63	66	64	71	64	70		70.0	2100		
COHEN	43	36	45	34	33	32	26	42	62	47	39	48	56	57	62	64	64	64	62	66	45	43	40	35	51	38	40	54	48	44		47.3	EDT		
OLNEY 1 S	>	73	75	53	51	47	56	70	72	66	67	63	73	79	83	89	92	91	89	80	60	65	58	65	62	66	64	71	63	70		69.4	2400		
GIANNOLA	>	36	39	30	31	30	24	39	56	45	38	47	55	57	60	61	61	66	62	60	45	44	37	36	48	40	41	52	47	44		45.9	EDT		

**ACON MD / DE / DC
APRIL 2002 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		
GLENMONT 1NNE ROSSEN																94	96		93																2400 EST
BETHESDA SCAFIDE	61 43	75 39	74 41	54 34	53 36	50 32	59 29	74 42	73 61	71 48	71 42	64 48	75 59	83 60	87 61	95 64	97 65	94 66	86 64	78 60	61 46	66 46	61 40	73 39	65 45	70 42	64 45	79 53	58 48	77 45		71.6 48.1	2400 EDT		
GAITHERSBURG 2WNW SHAW	60 40	73 33	75 40	56 30	51 29	47 29	58 22	73 40	71 60	69 43	70 34	65 46	75 58	82 55	85 58	92 60	94 60	91 64	90 61	81 58	58 43	67 39	59 35	68 30	64 39	68 35	66 36	74 52	60 45	71 39		70.4 43.8	2400 EDT		
FOREST GLEN TERRY	61 41	73 37	76 40	54 32	52 35	48 32	55 27	72 42	74 58	68 47	69 40	64 47	75 58	82 59	85 61	93 62	95 62	92 66	92 63	82 62	62 45	70 44	59 38	66 35	65 43	65 39	66 41	76 53	63 48	71 42		70.8 46.6	2400 EDT		
ROCKVILLE 1NE WASH GAS LIGHT	57 40	74 34	73 40	52 31	48 33	45 32	53 27	72 39	73 61	67 46	66 37	64 47	73 57	82 57	83 62	90 62	91 62	88 69	89 64	79 60	61 44	67 43	56 41	65 36	63 46	63 42	63 39	74 52	63 47	68 45		68.8 46.5	2400 EDT		
SOUTH BOWIE HUDELSON	59 39	68 34	78 41	54 36	49 36	46 32	64 36	70 38	76 56	67 46	67 38	64 48	77 54	84 89	85 64	92 62	92 62	87 66	80 62	60 48	60 51	68 40	58 34	64 67	63 45	65 39	66 38	75 52	64 50	70 45		70.2 47.1	2400 EDT		
OXON HILL SMITH	62 45	74 36	79 44	55 36	53 36	49 35	57 28	74 40	75 61	69 50	69 40	67 47	79 56	84 60	88 63	95 62	M M	M M	M M	M M	M 47	70 46	58 40	67 40	66 49	67 43	66 40	76 54	60 51	72 43		69.2 45.8	2200 EDT		
HOLLYWOOD ABELL	64 45	68 37	83 45	54 38	52 38	48 31	53 28	72 42	77 60	64 53	67 38	70 49	80 56	83 60	86 68	89 65	93 65	89 66	81 62	84 65	65 49	70 48	57 41	63 36	66 49	63 41	66 40	78 56	68 49	70 45		70.8 48.8	2359 EDT		
ORAVILLE VAN WIE																																			2400 EDT
RIDGE ZYLA	66 44	65 47	84 44	54 36	51 39	49 33	51 33	68 45	77 58	65 45	66 45	66 50	76 60	79 61	84 64	87 66	88 67	88 67	81 63	83 58	60 50	63 51	59 42	62 41	70 53	65 49	66 47	77 59	67 45	69 46		69.5 50.3	2400 EDT		
HAGERSTOWN 1E KEEFER	56 37	71 38	64 37	51 28	49 26	45 28	54 22	70 43	68 56	66 44	68 34	64 46	68 57	77 50	81 49	90 58	93 57	88 60	90 58	75 63	63 41	61 41	56 35	63 30	62 46	66 41	63 35	74 51	61 46	68 39		67.5 43.2	2400 EDT		
SMITHSBURG 2 NE VAUGHN	52 38	67 37	69 38	50 28	48 25	44 25	51 23	68 43	68 52	62 42	66 40	69 43	69 57	80 50	80 59	86 59	89 61	88 62	87 59	77 63	63 41	62 38	54 32	62 31	59 45	63 41	65 37	71 51	64 43	66 40		66.6 43.4	2000 EDT		
SALISBURY NWS WICOMICO CO APT	62 32	67 30	81 43	53 33	50 29	48 26	52 26	67 28	78 58	65 37	61 33	68 49	75 53	80 60	81 64	87 60	92 64	87 64	83 62	82 60	61 50	65 48	56 32	63 30	62 35	62 32	65 33	75 55	68 46	64 39		68.7 43.7	2400 EST		
HANOVER 2 S, PA RICKELL	51 34	66 33	69 37	49 26	45 23	43 27	50 20	65 39	71 57	61 42	64 33	62 41	71 55	76 49	79 59	86 59	89 59	87 59	87 59	73 56	56 40	59 38	54 35	61 30	59 39	63 38	62 32	70 48	60 42	63 39		65.0 41.6	2100 EDT		
WASH NATIONAL NWS ASOS	61 46	71 42	76 42	53 36	51 38	48 35	54 32	71 43	76 60	67 50	67 46	65 49	76 58	83 62	86 63	92 65	95 65	91 67	83 64	81 62	63 47	69 47	58 41	64 41	65 49	65 46	65 44	75 54	66 50	71 45		70.3 49.6	2400 EST		
WASH DULLES NWS ASOS	58 35	73 31	73 41	53 34	50 29	48 32	56 22	73 39	73 60	66 41	69 34	63 48	74 56	82 54	84 58	91 57	93 56	89 62	91 61	80 56	59 44	69 45	56 38	64 31	63 40	66 39	64 36	74 54	63 49	69 40		69.5 44.1	2400 EST		

ACON MD / DE / DC
APRIL 2002 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	TOTAL	OBS TIME
WILMINGTON 4NNE CANAVAN			0.02		T	0.01 0.5			0.11			0.23	0.01		0.03	0.02			0.19	T	0.20	0.40			0.28			1.07	0.23	2.80 0.5	2400 EDT	
BEAR 2 SW, DE GALLAHER	0.04		T		T	T			0.13	0.01		0.13	T			0.06			0.01	T	0.04	0.15			0.29	0.04	1.27	0.10	2.27 T	2400 EDT		
WILMINGTON, DE NWS ASOS	0.03		T			T			0.08	0.01		0.17	T	T	T	0.02			0.19		0.07	0.19			0.29	0.14	0.97	0.10	2.26 T	2400 EST		
GEORGETOWN, DE NWS SUSSEX CO APT	0.16		0.07	T		T			T	0.39		0.26	0.01		0.04	0.04		T			0.09	0.24			0.29	0.11	1.38		3.08 0.0	2400 EST		
GEORGETOWN, DE U OF D RES & ED CTR	0.14		0.01						0.01	0.29		0.07			0.04			0.14			0.05	0.21			0.27	0.04	1.33		2.60 0.0	2400 EST		
BWI NWS ASOS	T		T		T				0.46	T		T	T		0.05	0.04	1.23	0.02	T	0.19	0.36			0.17	0.13	1.43		T	4.08 0.0	2400 EST		
MILLERSVILLE 1SE HANSON	0.14		0.01						0.50	0.01				0.01	0.04	0.02	2.83	0.20		0.09	0.53				0.16		1.44		5.98 0.0	2400 EDT		
LOTHIAN JUG BAY	0.34	T		0.03	T					0.58	0.01				0.01				0.63	0.10	T	0.45	0.01		0.19	0.03	T	1.08	0.25	T	3.71 0.0	0900 EDT
LAUREL 2 E STOUDT	T		0.01						0.63			T			0.03			1.68	0.02		0.10	0.60			0.18	0.15	1.61	T	0.01	5.02 0.0	2400 EDT	
PARKTON 5SW KREINK	0.02		0.09		T	T			0.27				0.04	0.55	0.21	0.01	0.01		T	0.08	0.22				0.13	0.16	1.25	T	0.01	3.05 T	2200 EDT	
OWINGS MILLS 2SE SHARROW	0.01				T				0.19	0.02		T	T	0.10	0.21	T		0.73	T	T	0.10	0.33			0.15	0.06	1.34		T	3.24 T	2400 EDT	
BALTIMORE 2SE MANFRE			0.02						0.31	0.01			T		0.05		0.47	0.56	T	0.09	0.39				0.21	0.11	1.53		T	3.75 0.0	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER			0.02						0.24	0.01					0.05	0.03	0.52	0.10		0.25	0.22				0.17	0.15	1.33			3.09 -	2400 EST	
MANCHESTER 1SW CLOSE			0.10		T	T			0.23	0.01		0.02	0.12	0.28	0.18	0.03	0.17		T	0.07	0.18				0.13	0.08 0.0	1.06	0.01	2.67 T	2300 EDT		
WESTMINSTER 4SSE HARTSOCK			0.08		T				0.30	0.01		T	0.05	0.23	0.22	0.02			0.07		0.07	0.34			0.09	0.05	1.32			2.85 T	2200 EDT	
MILLERS 4NE MILLER	0.08		0.13		T	T			0.13	0.08		T	0.02	0.28	0.24	0.02			T	T	0.10	0.18			0.13		1.13	0.03	0.02	2.57 0.1	1800 EDT	
BRYANS ROAD 2 ESE BRUMBACK																															2400 EDT	
EAGLE ROCK HARVEY	0.83 2.0			0.03 0.3		0.06 2.0	T T		0.25			0.07	0.36	1.39	0.07		0.03		0.05	0.35	0.65	0.13 T			0.03		2.00	0.03	0.03 T	6.36 4.3	800 EDT	
FALLSTON 2 NW ALBRIGHT	0.02	0.56	0.06		T				0.14	0.02		T	T	T	0.04		0.18	0.40	T	0.13	0.17				0.14	0.16	1.36		0.02	3.40 0.0	2400 EDT	
LAUREL JHU / APL GIANNOLA	0.01		T						0.57						0.01		0.46	0.04		0.10	0.53				0.16	0.07	1.97			3.92 0.0	2400 EDT	
POTOMAC 4N COHEN				T					0.52			T	T	0.01	0.04					0.06	0.15	0.60			0.14	T	1.89		T	3.41 0.0	2100 EDT	
OLNEY 1 S GIANNOLA					T				0.45			T	0.03	T	0.04	T			T	0.01	0.09	0.53			0.11	>	1.76		T	3.02 0.0	2400 EDT	
GLENMONT 1NNE ROSSEN			T		T				0.52	T		T	T		0.05	T		T	T	0.02	0.33	0.34			0.15	0.19	1.58		T	3.18 0.0	2400 EST	

**ACON MD / DE / DC
APRIL 2002 DAILY PRECIPITATION**

BETHESDA SCAFIDE									0.41						0.02				0.01	0.05	0.30	0.37					0.12		0.17	1.96				3.41	2359 EDT	
GAITHERSBURG 2WNW SHAW			T		T				0.30	T		0.02	0.06	0.14	0.05					0.02	0.15	0.57					0.12		0.13	1.67		T		3.23 0.0	2400 EDT	
FOREST GLEN TERRY									0.61	T			0.01		0.03		0.07		0.01	T	0.13	0.57					0.13		0.05	2.01		T		3.62 0.0	2400 EDT	
ROCKVILLE 1NE WASH GAS LIGHT				T					0.51			T	0.02	T	T	T				0.02	0.08	0.61					0.09		0.11	1.62	T	T		3.06 0.0	2400 EDT	
SOUTH BOWIE HUDELSON									0.54	0.10					0.03			1.72	0.20	0.01	0.12	0.40					0.16		0.01	1.61				4.90 0.0	2400 EDT	
OXON HILL SMITH				0.01					0.53	T			T		0.02					0.51	0.44							0.18		0.02	1.52				3.23 0.0	2200 EDT
HOLLYWOOD ABELL	0.01			T					0.15	0.06		0.12	0.12					0.15	0.10	0.01	0.20	0.48					0.45		0.06	1.15				3.06 0.0	2359 EDT	
ORAVILLE VAN WIE																																			0.00 0.0	2400 EDT
RIDGE ZYLA				0.11					T	0.05		0.37			0.16				0.09	T	0.16	0.83					0.32			1.64				3.73 0.0	2400 EDT	
HAGERSTOWN 1E KEEFER				0.02					0.38	0.01			0.38	0.41	0.02			T	0.03	T	0.29	0.09						0.07		0.15	0.89				2.74 0.0	2400 EDT
SMITHSBURG 2 NE VAUGHN				T		T			0.34	T			0.34	0.59	T	T		T	0.15	T	0.24	0.06					0.06		0.19	0.78	T	T		2.75 T	2000 EDT	
SALISBURY NWS WICOMICO CO APT	0.11			0.29	T		0.01		T	0.54		0.59			0.13	T		0.10			0.13	0.81					0.33		0.12	1.23				4.39 0.0	2400 EST	
HANOVER 2 S, PA RICKELL	0.01			0.17		T		T	0.20	T		0.01	0.17	0.18	0.63	0.05		0.63	0.18	0.02	0.15	0.18							0.05	0.95	T	0.01		3.59 T	2100 EDT	
WASH NATIONAL NWS ASOS				T					0.27	T		T	0.01		0.05			0.31	0.51	0.03	0.24	0.36					0.13		0.19	1.37				3.47 0.0	2400 EST	
WASH DULLES NWS ASOS				T					0.48			0.01	0.03	0.01	0.11			T	0.02	0.04	0.63	0.23					0.09		0.12	1.68	T			3.45 0.0	2400 EST	