



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

SCATTERED DAMAGING THUNDERSTORMS SUMMER HEAT ARRIVES

The first month of the Summer of 2002 continued this year's trend of scattered thunderstorms, above normal temperatures, and below normal precipitation. Most of this month's rain fell from thunderstorms, some of them severe.

TEMPERATURES

The following quote on **Joe Terry's** of **Forest Glen** monthly summary form sums up the month: "A mix of mild, comfortable days and hot days." The month's minimum temperature at 31 of the 35 ACON and non-ACON stations reporting did not fall below 50 degrees. The region's minimum temperature of 40 degrees occurred at Salisbury's Wicomico County Airport on the 9th.

Herb Close of **Manchester 1 S** set a station record for the warmest minimum temperature and for the most 90 degree days in June. **Bobby Miller** of **Millers 4 NE** reported his first three consecutive 90 degree days for June in 5 years. **Stan Rossen** of **Glenmont 1 NNE** reported tying his June maximum temperature. **Jim Vaughn** of **Smithsburg 2 NE** tied his second warmest June.

PRECIPITATION

The drought this month intensified during the last half of the month. **Dan Hanson** of **Millersville 1 SE** and **Gary Gallaher** of **Bear 2 SW** both reported the lack of rain, stressing plants. Rainfall this month varied across the region. There were no outstanding heavy monthly amounts. Only two stations reported over 4 inches: Wilmington NWS ASOS, DE and **Al Kreinik** of **Parkton 5 SW**.

Jeff Stoudt of **Laurel 2 E** made an interesting note: Thursday has been a stormy wet day the past three months. This month 73% of total rainfall fell on a Thursday. During the past three months 47% of the precipitation also fell on a Thursday.

SEVERE THUNDERSTORMS

June 2002 had its share of damaging severe thunderstorms.

On the 5th lightning struck the dome of the Maryland State House in Annapolis. On the 6th another severe thunderstorm blew down the Wye Mills (Maryland) Oak, the largest white oak tree in the United States. Its height was higher than a 10 story building, its spread was 165 feet, and its trunk measured over 21 feet around. Due to decay over the years there was enough room inside the trunk for four men to set up a table and play cards. It was estimated to be over 450 years old. The State quickly removed the wood for future use. Also on the 6th a small tornado hit the Braddock Heights area of Frederick County.

Washington County was hit the hardest by severe weather. Each of the two ACON observers there reported severe weather at their station.

The first storm occurred on the 5th. It hit Hagerstown. After a hot day where the heat index peaked out at 100 a damaging storm hit between 5 and 5:45 PM. It brought severe frequent lightning, heavy rain and hail. Hail, which averaged 0.75" and as large as 1 1/2", fell for 10 minutes covering the ground to a depth of 1/2". Lots of tree, power line and structural damage was reported throughout the city.

Around 5:30 of the afternoon of the 27th a damaging severe storm hit **Jim Vaughn's** home at **Smithsburg 2 NE**. His anemometer recorded a wind gust of 81 MPH before it was ripped off the house. Some siding was blown off two sides of the house, and several small sections of shingles were blown off the roof along with a new solar powered weather station which he was going to turn on the next day. His basement and master bedroom received water damage. A 800 pound children play

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Smithsburg 2 NE	100
Baltimore 2 SE	99

MINIMUM TEMPERATURE

Eagle Rock	46
Bear 2 SW DE	49

WARMEST AVG. TEMP.

Baltimore 2 SE	77.4
Ridge	76.2

COLDEST AVG. TEMP.

Eagle Rock	67.2
Hanover 2 S	70.0

MAXIMUM PRECIPITATION

Parkton 5 SW	4.04
Oxon Hill	3.86

MINIMUM PRECIPITATION

Millersville 1 SE	1.24
Hollywood	1.81

set was destroyed. The NWS determined that the storm damage which occurred in eastern Washington County was caused by a microburst. Rows of trees were knocked down in the same direction. Jim thinks that a F0 tornado may have been part of the storm due to what his wife said and from damage around his property. "I was looking out the window and all of a sudden the play set lifted straight up into the air, spun around, then broke into four pieces and hit the ground." It left a 30-40 feet wide damage path. Jim lost a 30 foot section of his 280 foot fence next to where his neighbor's 1200 pound fishing boat that was picked up and placed in another part of the yard facing the opposite direction.

OBSERVER COMMENTS FOR JUNE 2002

Gary Gallaher of Bear 2 SW, DE

Numerous thunderstorms this month with the heavier ones passing to the north and east. Drought continued this month. Precipitation below normal for 18 out of the past 21 months.

13th—Much cooler, late afternoon and evening showers.

27th—AM minimum 77 degrees.

Dan Hanson of Millersville 1 SE

June was warm and very dry. There were 11 days of 90 or higher. Only 1.24" (about 30% of average) of rain fell during the month.

Jeff Stoudt of Laurel 2 E

Thursdays have been bad for outings in western Anne Arundel County! Of the June total of 2.67", 1.94" or nearly 73% fell on Thursdays. During the last three months 5.08" or 47% of the 10.80" fell on Thursdays. Also, the greatest daily amounts of each month fell on Thursdays.

Al Kreinik of Parkton 5 SW

6th—1 PM thunderstorm with 56 MPH wind gust, very dark, temp dropped 10 degrees in several minutes.

28th—Shower at 3:45 PM becoming very dark in NW a thunder and light rain @ 3:55 PM.

Joe Manfre of Baltimore 2SE

30th—Sunny, hot, low humidity.

Herb Close of Manchester 1 S

Six (6) 90 degree days this month broke the June record of five (5) set in 1991 and tied in 1997 & 1999. Another record broken was for the warmest minimum temperature. The min of 54 this month broke the old record of 53 set in 1989.

24th—94 degrees ties the June maximum temperature set in 1991 and tied in 1994, 1995, 1997, & 1999.

Ralph Hartsock of Westminster 4 SSE

6th—Severe storm and tornado warning here.

Bobby Miller of Millers 4 NE

12 month precipitation 27.77", which is 15.56" below normal making it the lowest on record.

20th—Record high June barometric pressure reading of 30.50" at 10:54 AM. Zero visibility fog at 6 AM.

24th to 26th—3 days in a row with maximum temperature 90 degrees or higher, the first time in June since June 24-26 1977.

Rich Giannola of JHU/APL of Laurel

20th—AM fog lifting by 9 AM.

Rob Cohen of Potomac 4 N

13th—1.3" of rain fell between noon and 1 PM.

Stan Rossen of Glenmont 1 NNE

6th—1/2" hail 1502-1504 hours.

26th—25th anniversary of taking temperature observations. 97 degrees tied the June maximum temp set on 6/8/84 and tied on 6/22/88. 84.5 degrees daily aver-

age temp broke the June record of 84.0 set on 6/26/98.

Kevin Shaw of Gaithersburg 2 WNW

After a bit of a reprieve the past few months, back to the usual, heat and lack of rain. No real cool spells, plenty of heat though. Significant rain only fell on 3 days (Mid-month— 13th to 15th) when 2.78" fell, or 90% of the total monthly amount.

Joe Terry of Forest Glen

6th—Heavy thunderstorm 1500-1530 hours with marble sized hail.

18th—Early evening TRW+ (0.70") followed by frequent lightning / thunder through 1 AM on the 19th. Most of the activity was just south, about 6 hours of near continuous rain.

Bill Hudelson of South Bowie

This month rain to the north, west, and south of DC but little to the east.

5th, 6th & 27th—Severe thunderstorm watch and warning each day but no severe storms here. Frequent lightning on the 5th.

Brian Smith of Oxon Hill

4th—Halo at 0742

26th—Rainbow at 2032

27th—AM low 74 degrees

Floyd Abell of Hollywood

6th—Fair, then gusty late day storm.

Mike Van Wie of Oraville

Not too bad in terms of rain considering the situation.

John Zyla of Ridge

My rainfall from Sept 01 to June 02 is 22.97", leaving a deficit of 14.18".

Greg Keefe of Hagerstown 1 E

5th—Severe thunderstorm between 5 and 5:45 PM with severe frequent lightning, large continuous hail for 10 minutes averaging 0.75" in diameter up to 1.5" in diameter covering the ground. High winds up to 64 MPH, heavy rain 0.65" in 15 minutes. Lots of tree, power line and structural damage reported throughout the city.

13th—Thunderstorm with very heavy downpours noon to 1:30 PM dropping an inch of rain.

27th — Severe thunderstorms in the area 5 to 6 PM just passing to the south and east. Only 0.01" here with winds of 45 MPH. Skies were very stormy and ominous looking with a lot of thunder and lightning. Severe damage reported east of town and in Smithsburg.

Jim Vaughn of Smithsburg 2 NE

15th consecutive month with below average precipitation. Tied 1987 for the second warmest June.

5th—1/8" hail in thunderstorm.

6th—1/8" hail in thunderstorm. First back to back days with hail since June 19 & 20, 1996.

27th—Possible F0 tornado. 3/4" hail observed. Wind gusts of 81 MPH recorded before anemometer is ripped from the house. Moderate damage to the house and yard. Neighbor lost a boat. Neighbor 1 mile away lost roof and a car was overturned.

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
JUNE 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
<i>New Castle, Delaware</i>																								
Canavan, Jim	Wilmington 4 NNE	82.0M	62.0M	72.0M	92	26	51	9	3	0	0				2.34M	0.79	24	6	0	17.82M	0.0	0.0	5.5	2400
Gallaher, Gary	Bear 2 SW	83.0	60.9	72.0	95	26	49	8+	5	0	0	35	W	5	2.95	0.83	13	8	0	17.32	0.0	0.0	5.0	2400
Wilmington NWS ASOS	NCC Airport	81.5	62.0	71.8	93	26	52	8	3	0	0	38	NW	27	4.95	1.68	13	12	1	17.81	0.0	0.0	2.4	2400
<i>Sussex, Delaware</i>																								
Georgetown NWS ASOS	Sussex Co. Airport	83.6	62.8	73.2	96	26	49	9	9	0	0	35	WNW	6	1.96	0.69	6	12	0	16.38	0.0	0.0		2400
U of D Research & Ed Ct	Georgetown	83.6	62.7	73.2	95	24+	50	9	6	0	0				1.39	0.62	6	8	0	14.30				2400
<i>Anne Arundel, Maryland</i>																								
Baltimore NWS ASOS	BWI Airport	85.0	62.5	73.8	97	26	54	8+	8	0	0	33	E	6	2.39	1.19	6	6	1	15.76	0.0	0.0	2.3	2400
Hanson, Dan	Millersville 1 SE	86.5	61.8	74.2	97	26	53	8	11	0	0	30	NW	2	1.24	0.39	6	9	0	17.12	0.0	0.0	2.5	2400
Jug Bay Wetlands	Lothian	87.4	61.5	74.5	98	27	51	8	12	0	0				3.16	0.99	7	10	0	17.03				0900
Stoudt, Jeff	Laurel 2 E														2.67	1.13	6	7	1	17.57	0.0	0.0	2.6	2400
<i>Baltimore, Maryland</i>																								
Kreinik, Al	Parkton 5 SW	82.2	58.6	70.4	93	25	50	9+	5	0	0	56	NW	6	4.04	1.70	13	10	2	17.27	0.0	0.0	6.2	2200
Sharrow, Marty	Owings Mills 2 SE																			13.57M			6.7	2400
<i>Baltimore City, Maryland</i>																								
Manfre, Joe	Baltimore 2 SE	86.2	68.5	77.4	99	26	60	8+	11	0	0				2.55	0.99	6	8	0	18.04	0.0	0.0	2.8	1800
Maryland Science Ctr	Baltimore Inner Harbor	83.8	67.6	75.7	99	26	59	9	7	0	0				2.74	1.13	6	8	1	13.85				2400
<i>Carroll, Maryland</i>																								
Close Jr, Herb	Manchester 1 SW	82.5	62.4	72.5	94	24	54	8+	6	0	0	32		8	2.76	1.11	6	11	1	16.15	0.0	0.0	8.9	2100
Hartsock, Ralph	Westminster 4 SSE	82.7	59.7	71.2	94	26	50	17	3	0	0				2.49	1.25	6	7	1	15.49	0.0	0.0	6.6	2200
Miller, Bobby	Millers 4 NE	81.7	60.7	71.2	91	24+	51	18	3	0	0	46	NW	6	2.28	0.81	13	10	0	15.57	0.0	0.0	8.2	1800
<i>Charles, Maryland</i>																								
Brumback, Marty	Bryans Head 2 ESE																			5.87M			3.7M	2400
<i>Garrett, Maryland</i>																								
Harvey, Rebecca	Eagle Rock	77.2	57.1	67.2	90	26+	46	3	2	0	0				3.25	0.72	17	12	0	27.23	0.0	0.0	61.3	0800
<i>Harford, Maryland</i>																								
Albright, Lynn	Fallston 2 NW	86.3	59.4	72.9	97	26	51	9+	10	0	0				3.32	1.46	13	8	1	18.90	0.0	0.0	5.8	2400
<i>Howard, Maryland</i>																								
Giannola, Rich	Laurel JHU / APL	85.6	62.9	74.3	97	26	54	8	9	0	0	34	SW	6	2.18	0.82	13	7	0	18.10	0.0	0.0	4.0	2400
<i>Montgomery, Maryland</i>																								
Cohen, Rob	Potomac 4 N	83.0	64.4	73.7	93	26	56	3+	5	0	0				2.65	1.43	13	9	1	17.87	0.0	0.0	2.7	2100
Giannola, Rich	Olney 1 S	83.7	63.2	73.5	94	25+	55	3+	5	0	0				2.10	1.51	13-15	5	1	16.21	0.0	0.0	4.0	2400
Rossen, Stan	Glenmont 1 NNE*	85.9	61.8	73.9	97	26	53	8	10	0	0				2.31	0.90	13	9	0	15.99	0.0	0.0	M	2400

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JUNE 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	87.2	64.4	75.8	96	11+	56	8	10	0	0	16	WNW+	2+	3.07	0.89	18	12	0	15.19M	0.0	0.0		3.0M	2400
Shaw, Kevin	Gaithersburg 2 WNW	86.8	61.2	74.0	96	25+	52	3+	12	0	0				3.08	1.72	13	10	1	18.33	0.0	0.0		5.5	2400
Terry, Joe	Forest Glen	85.9	62.7	74.3	95	25+	53	3	11	0	0	28	WSW	27	2.79	0.75	18	9	0	16.14	0.0	0.0		4.1	2400
Wash Gas Light	Rockville 1 NE	84.7	63.5	74.1	95	25+	55	8	8	0	0				2.19	1.23	13	9	1	14.35	0.0	0.0		2.6	2400
	<i>Prince Georges, Maryland</i>																								
Hudelson, Bill	South Bowie	87.8	63.8	75.8	98	25+	55	9	13	0	0	29	NW	2	1.94	0.44	5	9	0	16.55	0.0	0.0		2.8	2400
Smith, Brian	Oxon Hill	86.4	63.7	75.1	96	25+	53	8	11	0	0				3.86	1.51	13	9	1	15.80	0.0	0.0	M	2300	
	<i>St. Marys, Maryland</i>																								
Abell, Floyd	Hollywood	85.9	64.2	75.1	96	24+	51	9	9	0	0	35		6	1.81	0.81	6	9	0	14.19	0.0	0.0		8.3	2400
Van Wie, Michael	Oraville	86.8	61.4	74.1	97	25	50	9	10	0	0	43		2	2.55	0.82	6	8	0	11.91M	0.0	0.0		8.0	2400
Zyla, John	Ridge	85.7	66.7	76.2	96	24	54	8+	9	0	0	23	NW	6	2.34	0.84	14	9	0	16.77	0.0	0.0		7.4	2400
	<i>Washington, Maryland</i>																								
Keefer, Greg	Hagerstown 1 E	83.7	61.0	72.4	95	25	52	3+	6	0	0	64	SW	5	3.32	1.01	13	10	1	16.67	0.0	0.0		7.0	2400
Vaughn, Jim	Smithsburg 2 NE	87.9	60.7	74.3	100	26	52	3+	14	0	0	81**	SSW	27	3.60	1.04	27	9	1	15.54	0.0	0.0		6.9	2000
	<i>Wicomico, Maryland</i>																								
Salisbury NWS ASOS	Wicomico Co. Apt	84.4	57.9	71.2	96	25	40	9	8	0	0	38	WNW	2	2.08	0.95	6	9	0	18.35	0.0	0.0		6.1	2400
	<i>York, Pennsylvania</i>																								
Rickell, Robert	Hanover 2 S, PA	81.2	58.8	70.0	92	26	50	3	4	0	0				2.81	0.68	6	12	0	16.74	0.0	0.0		9.6	2100
	<i>Arlington, Virginia</i>																								
Wash National NWS	National Airport	85.8	66.4	76.1	95	12	57	9	10	0	0	48	SW	6	3.81	1.92	13	9	1	14.61	0.0	0.0		3.2	2400
	<i>Loudon, Virginia</i>																								
Wash Dulles NWS ASOS	Dulles Airport	84.1	61.0	72.6	93	25	52	8	6	0	0	39	S	5	3.61	1.02	5	11	1	16.98	0.0	0.0		2.6	2400
SECTION AVERAGE		84.5	62.3	73.4											2.74										

NOTES:

M = MISSING DATA

> = INCLUDED IN NEXT DAYS DATA

** = PEAK SPEED RECORDED BEFORE THE WIND EQUIPMENT WAS BLOWN OFF HOUSE

* = SOURCE OF GLENMONT 1 NNE DATA IS THE PENN STATE WEB SITE AND IS PRELIMINARY.

GARY GALLAHER 7/29/02

ACON MD / DE / DC
JUNE 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 CANAVAN	M	M	M	M	M	M	M	M	M	83	84	90	89	67	60	67	77	80	81	81	80	82	84	86	90	88	92	89	M	M	89		82.0	2400		
BEAR 2 SW, DE GALLAHER	86	84	75	76	88	87	70	75	80	85	90	89	76	64	75	79	80	81	81	83	83	85	86	93	93	95	91	85	87	89		83.0	2400			
WILMINGTON, DE NWS N. CASTLE CO APT	85	83	75	76	85	85	70	73	79	83	88	89	74	64	73	78	79	79	79	80	80	83	85	92	89	93	90	84	87	86		81.5	2400			
GEORGETOWN, DE NWS SUSSEX CO APT	90	89	79	79	92	90	66	70	79	84	91	92	74	71	73	81	80	80	82	82	81	84	86	95	94	96	93	83	85	88		83.6	2400			
GEORGETOWN, DE U OF D RES & ED CTR	89	89	79	79	90	91	68	70	79	85	89	91	74	72	76	80	82	81	82	81	82	85	87	95	95	92	88	83	85	87		83.6	2400			
BALTIMORE NWS BWI APT	89	87	79	82	93	88	71	74	84	87	92	91	76	67	78	80	81	82	82	83	84	86	90	95	95	97	94	87	88	89		85.0	2400			
MILLERSVILLE 1SE HANSON	91	86	81	82	92	89	74	77	87	90	95	92	77	69	80	83	85	84	83	86	86	87	91	96	94	97	93	87	89	91		86.5	2400			
LOTHIAN JUG BAY	92	92	91	83	85	94	90	71	75	85	M	96	95	84	71	83	M	87	85	81	84	84	86	92	96	97	98	94	89	87		87.4	0900			
LAUREL 2 E STOUDT																																				
PARKTON 5SW KREINIK	85	81	75	78	89	85	69	74	85	87	90	87	74	65	72	77	78	79	82	81	82	84	87	92	92	93	90	83	84	85		82.2	2200			
OWINGS MILLS 2SE SHARROW																																				2400
BALTIMORE 2SE MANFRE	88	86	80	83	94	90	74	75	86	90	94	91	81	69	78	81	83	84	80	83	87	86	90	93	95	99	97	87	88	95		86.2	1800			
BALT INNER HARBOR MD SCIENCE CENTER	72	67	64	68	73	72	63	60	60	71	71	73	66	61	61	62	63	65	66	66	71	71	69	66	78	79	76	73	70	77		68.5	EDT			
MANCHESTER 1SW CLOSE	86	81	76	80	92	85	69	75	85	90	91	88	74	64	74	76	76	78	79	81	81	84	87	94	92	92	89	84	84	87		82.5	2100			
WESTMINSTER 4SSE HARTSOCK	83	84	74	81	88	88	71	75	82	87	88	88	78	66	75	78	79	82	82	82	81	84	84	91	92	94	89	83	84	87		82.7	2200			
MILLERS 4NE MILLER	83	83	76	79	87	83	71	73	84	87	89	86	78	65	74	76	76	79	77	81	82	84	86	91	91	90	87	82	85	86		81.7	1800			
BRYANS ROAD 2 ESE BRUMBACK	63	63	54	60	68	62	56	53	54	64	64	69	64	57	58	55	53	51	56	60	57	57	62	67	67	70	69	66	62	59		60.7	EDT			
EAGLE ROCK HARVEY	79	76	70	76	82	84	64	69	76	80	82	81	79	74	69	59	69	70	76	79	80	80	80	84	84	90	90	80	74	81		77.2	0800			
FALLSTON 2 NW ALBRIGHT	60	60	46	50	62	62	50	48	48	60	62	62	64	62	50	50	50	52	54	60	56	60	60	60	62	63	64	59	59	68		57.1	EDT			
LAUREL JHU / APL GIANNOLA	89	83	80	82	95	92	75	78	86	91	94	93	75	66	78	82	84	84	85	85	86	87	89	95	95	97	95	88	88	92		86.3	2400			
POTOMAC 4N COHEN	61	60	54	60	67	62	55	52	51	62	62	65	60	59	54	53	53	51	55	58	55	56	58	64	68	69	70	67	61	60		59.4	EDT			
OLNEY 1 S GIANNOLA	89	82	79	84	92	89	73	78	87	92	94	89	77	69	77	79	81	85	84	85	86	87	90	94	96	97	93	85	86	90		85.6	2400			
GLENMONT 1NNE* ROSSEN	69	65	57	64	68	61	58	54	56	68	67	71	62	60	60	60	55	55	59	61	59	58	63	67	69	75	68	69	66	63		62.9	EDT			
BETHESDA SCAFIDE	87	82	77	83	88	86	72	74	84	88	90	88	78	69	74	77	79	82	78	82	83	84	88	90	92	93	90	82	84	86		83.0	2100			
OLNEY 1 S GIANNOLA	71	64	56	67	71	66	62	56	56	62	71	72	64	63	64	57	57	58	62	64	62	60	62	67	70	74	73	71	66	64		64.4	EDT			
OLNEY 1 S GIANNOLA	87	82	79	82	87	83	72	74	86	88	92	88	75	67	>	79	78	81	79	81	82	86	89	93	94	94	92	82	85	89		83.7	2400			
GLENMONT 1NNE* ROSSEN	69	63	55	64	69	62	59	55	56	64	68	69	63	61	>	58	55	56	60	62	61	60	64	68	69	74	71	69	65	63		63.2	EDT			
GLENMONT 1NNE* ROSSEN	90	83	81	87	90	89	73	78	87	90	93	92	76	69	79	82	83	86	82	85	87	87	91	93	95	97	94	84	85	89		85.9	2400			
BETHESDA SCAFIDE	65	62	54	63	68	62	56	53	55	63	68	67	63	62	59	56	55	56	60	61	59	58	59	65	69	72	71	68	64	62		61.8	EST			
BETHESDA SCAFIDE	94	87	84	87	88	87	76	80	90	94	96	89	76	69	81	83	81	86	82	87	90	91	93	96	96	92	95	86	90	91		87.2	2400			
BETHESDA SCAFIDE	69	65	57	67	70	63	60	56	57	66	70	71	64	62	61	60	58	59	61	63	62	62	64	69	71	74	71	70	67	65		64.4	EDT			

ACON MD / DE / DC
JUNE 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
GAITHERSBURG 2WNW SHAW	91	84	81	86	91	90	75	81	88	92	95	92	77	70	77	81	83	87	84	85	88	89	91	95	96	96	95	85	88	91		86.8	2400
FOREST GLEN TERRY	90	85	80	85	91	90	74	76	86	92	94	91	77	71	79	81	83	85	81	84	85	87	90	94	95	95	93	85	88	89		85.9	2400
ROCKVILLE 1NE WASH GAS LIGHT	87	81	78	85	91	87	73	77	86	91	92	89	77	77	74	78	81	83	81	82	83	85	90	93	95	95	91	83	87	89		84.7	2400
SOUTH BOWIE HUDELSON	92	88	82	84	95	93	76	78	86	92	94	95	83	69	81	84	85	86	81	85	87	88	91	96	98	98	97	88	90	91		87.8	2400
OXON HILL SMITH	92	86	81	85	92	90	74	77	85	92	95	94	80	71	80	82	84	85	80	84	85	86	88	94	96	96	93	86	88	90		86.4	2300
HOLLYWOOD ABELL	90	89	80	82	93	93	71	75	84	89	94	92	82	76	81	80	83	83	82	84	85	85	88	96	96	95	91	83	88	88		85.9	2359
ORAVILLE VAN WIE	91	88	81	83	95	96	71	75	84	89	93	93	82	78	81	84	84	84	83	84	85	86	89	96	97	96	93	87	85	90		86.8	2400
RIDGE ZYLA	91	90	79	80	90	89	72	76	81	87	92	94	81	81	81	84	82	80	83	84	83	84	88	96	94	94	91	87	88	89		85.7	2400
HAGERSTOWN 1E KEEFER	88	81	77	83	92	80	74	77	86	89	92	88	76	69	73	78	79	81	82	83	84	86	88	91	95	91	90	85	86	88		83.7	2400
SMITHSBURG 2 NE VAUGHN	87	84	79	87	95	89	72	81	89	92	96	92	82	74	78	80	86	86	89	91	91	91	91	97	99	100	93	87	90	90		87.9	2000
SALISBURY NWS WICOMICO CO APT	89	91	79	80	90	92	68	72	79	88	90	91	73	79	79	82	82	80	82	82	82	86	87	94	96	94	89	82	87	88		84.4	2400
HANOVER 2 S, PA RICKELL	83	79	75	79	88	79	70	76	82	86	90	87	74	64	72	73	78	79	78	80	83	85	87	89	90	92	90	80	82	86		81.2	2100
WASH NATIONAL NWS ASOS	92	88	80	85	91	92	74	76	84	93	94	95	80	71	81	82	81	84	79	83	84	84	87	93	93	94	93	86	87	88		85.8	2400
WASH DULLES NWS ASOS	88	83	78	83	90	89	73	75	85	89	91	89	78	71	77	78	80	87	78	83	84	84	87	91	93	92	90	84	85	87		84.1	2400
	65	62	57	62	68	64	55	52	54	62	65	68	65	63	56	55	53	53	60	58	57	57	60	63	66	72	70	66	63	59		61.0	EST

**ACON MD / DE / DC
JUNE 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	31	TOTAL	OBS TIME	
WILMINGTON 4NNE CANAVAN						0.67							M	M			0.03	0.15	0.35						0.79			0.35				2.34 0.0	2400 EDT	
BEAR 2 SW, DE GALLAHER					0.31	0.79							0.83	0.59	0.01			0.19	T						0.11		0.12					2.95 0.0	2400 EDT	
WILMINGTON, DE NWS ASOS			T	T	0.25	0.79	0.01					0.19	1.68	0.93	0.01		0.29	0.24	0.11						0.08		0.37					4.95 0.0	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT	T		T		0.40	0.69	0.01					0.16	0.13	0.08	0.10	0.08	T		0.01		0.01						0.28		0.01			1.96 0.0	2400 EST	
GEORGETOWN, DE U OF D RES & ED CTR					0.16	0.62	0.04						0.12	0.09	0.05	0.03											0.28					1.39 0.0	2400 EST	
BWI NWS ASOS				T	0.38	1.19	T					T	0.49	0.18	0.07		T		T							T	0.08	T				2.39 0.0	2400 EST	
MILLERSVILLE 1SE HANSON					0.03	0.39						0.05	0.37	0.15	0.10				0.02								0.11	0.02				1.24 0.0	2400 EDT	
LOTHIAN JUG BAY		T			0.59	0.99	T	T		M		0.02	0.54	0.16	T	M	T	0.62	0.01	T	T	T	T				0.05	0.14	0.04	T		3.16 0.0	0900 EDT	
LAUREL 2 E STOUDT					0.21	1.13						T	0.68	0.24	0.18				0.10								0.13	T				2.67 0.0	2400 EDT	
PARKTON 5SW KREINK	0.05				0.04	1.35						T	1.70	0.58	0.07			0.03	0.01								0.06	0.15				4.04 0.0	2200 EDT	
OWINGS MILLS 2SE SHARROW																																	2400 EDT	
BALTIMORE 2SE MANFRE			0.02		T	0.99							0.72	0.60	0.10			0.02	0.02								0.08	T				2.55 0.0	1800 EDT	
BALT INNER HARBOR MD SCIENCE CENTER					0.10	1.13							0.80	0.50	0.10			0.01	0.01	M	M	M	M	M			0.09		M			2.74 -	2400 EST	
MANCHESTER 1SW CLOSE				T	0.01	1.11	0.03					0.02	0.78	0.38	0.05		T	0.18	0.01							T	0.08	0.11				2.76 0.0	2100 EDT	
WESTMINSTER 4SSE HARTSOCK			0.03	T		1.25						T	0.49	0.50	0.15			0.03									0.04	T				2.49 0.0	2200 EDT	
MILLERS 4NE MILLER	0.11			T	0.03	0.27	0.08					T	0.81	0.33	0.04		T	0.33	0.15	T							T		0.13			2.28 0.0	1800 EDT	
BRYANS ROAD 2 ESE BRUMBACK																																	2400 EDT	
EAGLE ROCK HARVEY	0.23			0.15	0.04	0.13	0.72						0.45	0.70	0.42	0.03		0.04		T								0.32	0.02				3.25 0.0	0800 EDT
FALLSTON 2 NW ALBRIGHT					0.03	0.91							1.46	0.56	0.05			0.26	0.02	T						T	0.03					3.32 0.0	2400 EDT	
LAUREL JHU / APL GIANNOLA					0.07	0.32							0.82	0.23	0.24		T										0.40	0.10					2.18 0.0	2400 EDT
POTOMAC 4N COHEN				T	0.10	0.16							1.43	0.34	0.34			T	0.04							0.04	0.10	0.10					2.65 0.0	2100 EDT
OLNEY 1 S GIANNOLA				T	0.10	0.20							>	>	1.51												T	0.11	0.18				2.10 0.0	2400 EDT
GLENMONT 1NNE* ROSSEN				T	0.05	0.58							0.90	0.18	0.14			0.01	0.05							T	0.13	0.27				2.31 0.0	2400 EST	
BETHESDA SCAFIDE					0.02	0.50						0.05	0.49	0.33	0.27			0.89	0.29	0.01							0.11	0.06	0.05			3.07 0.0	2400 EDT	

ACON MD / DE / DC
JUNE 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	31	TOTAL	OBS TIME
GAITHERSBURG 2WNW SHAW			T		0.07	0.09						0.02	1.72	0.26	0.80	T		0.01								0.01	0.09	0.01				3.08 0.0	2400 EDT
FOREST GLEN TERRY	T				0.10	0.61						T	0.38	0.20	0.16			0.75	0.33							T	0.25	0.01				2.79 0.0	2400 EDT
ROCKVILLE 1NE WASH GAS LIGHT				T	0.05	0.19						T	1.23	0.19	0.34			T	0.02							0.04	0.08	0.05				2.19 0.0	2400 EDT
SOUTH BOWIE HUDELSON					0.44	0.20							0.43	0.13	0.21			T	0.33							0.01	0.08	0.11				1.94 0.0	2400 EDT
OXON HILL SMITH					0.22	0.41							1.51	0.29	0.20	T		T	0.48							0.08	0.25	0.42				3.86 0.0	2300 EDT
HOLLYWOOD ABELL	T			T		0.81						0.07	0.21	0.15	0.03	T			0.05							0.02	0.11	0.36				1.81 0.0	2359 EDT
ORAVILLE VAN WIE	T			0.03		0.82	T					T	0.31	0.18	0.07	T			0.71							T	0.21	0.22				2.55 0.0	2400 EDT
RIDGE ZYLA	0.26			0.06		0.31						0.07	0.32	0.84				T								0.04	0.41	0.03				2.34 0.0	2400 EDT
HAGERSTOWN 1E KEEFER				T	0.67	0.74						0.04	1.01	0.49	0.05			0.15								0.01	0.02	0.14				3.32 0.0	2400 EDT
SMITHSBURG 2 NE VAUGHN					0.10	0.74						T	0.46	0.42	0.06			0.56	0.11							T	1.04	0.11				3.60 0.0	2000 EDT
SALISBURY NWS WICOMICO CO APT				T		0.95	0.01					T	0.23	0.37	0.02	0.35	0.01									T	0.06	0.08				2.08 0.0	2400 EST
HANOVER 2 S, PA RICKELL	T		0.02		0.05	0.68	0.02					0.14	0.34	0.60	0.07	T	T	0.21	0.53								0.05	0.10				2.81 0.0	2100 EDT
WASH NATIONAL NWS ASOS			T	T	T	0.38						T	1.92	0.12	0.32	T		0.35	0.28							0.04	0.20	0.20				3.81 0.0	2400 EST
WASH DULLES NWS ASOS			T	0.02	1.02	0.03							0.77	0.19	0.35			0.18	0.85							0.07	0.05	0.08				3.61 0.0	2400 EST