

http://www.jhuapl.edu/weather/education/ACONdata.html

## ATLANTIC COAST OBSERVER NETWORK, MD / DE / DC CHAPTER

WITH DATA FROM NEARBY AREAS

### WARM, WET, CLOUDY MONTH TORNADIC THUNDERSTORMS

April was an active weather month. For a good part of the month fronts generally laid in an east-west direction across the region. When the front moved northwards warm southerly winds brought summer-like temperatures in the 80's and when it moved southwards cool damp winds with an easterly component brought cool maximum temperatures in the 40's and 50's. Clouds were abundant.

Temperatures averaged well above normal mainly due to quite warm minimums. Gary Gallaher of Bear 2 SW DE and Kevin Shaw of Gaithersburg 2 WNW both reported average minimums 1.5° warmer than their previous records.

Precipitation also averaged above normal across the region except for the Delmarva Peninsula where below normal amounts fell. The heaviest rains fell from Central Maryland westwards. Thunder was reported on around seven days. A few of these storms brought small hail. It was also a windy month. Wind gusts of 40 MPH or higher were reported at over half of the stations which report wind data.

There were numerous reports of severe weather - hail, strong winds, and tornadoes. More than a dozen tornadoes occurred on four days (4th, 16th, 27th, & 28th) in Maryland and none in Delaware. Most of the tornadoes occurred on the 27th and 28th in conjunction with the tornado outbreak which hit the southeast. Wes Gleason of Hollywood 3 ENE reported that a weak tornado / funnel cloud passed over his home on the 27th. For more details see page 3.

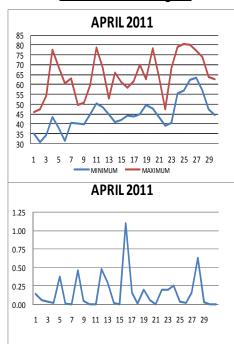
The month began cool with maximum temperatures remaining in the 40's. The coldest temperature occurred on either the 1st, 2nd, or 6th when temperatures fell to around freezing. Snow and sleet fell on the 1st and 2nd. Herb Close of Manchester 1 SW reported 3.2" of snow and Bobby Miller of Millers 4 NE 2.0" on the 1st. Dave Lesher of Davis 3 SE WV reported 19.7" of snow from the 1st to the 3rd.

The first warmth occurred on the 4th when 80's were common.

Heavy rains along with some thunderstorms occurred on the 16th. 1"+ amounts were common with the heaviest amounts falling in Washington County and the lightest amounts on the Delmarva Peninsula. Jim Vaughn of Smithsburg 3 NE reported 2.64", Max Hutto of Smithsburg 1.5 SW 1.85" and Greg Keefer of Hagerstown 1 E 1.83".

80° maximum temperatures occurred from the 24th to the 27th. Minimums on the 26th and 27th only fell to the mid to upper 60's setting records for the warmest minimum temperatures for April. Stan Rossen of Glenmont of 1 NNE re-

#### Continued on Page 3



# ACON MD/DE Network Daily average temperatures and precipitation based on observation times, not calendar days.

## EXTREMES REPORTED BY ACON OBSERVERS

# MAXIMUM TEMPERATURE Forest Glen 90 Jug Bay Wetlands 89 Baltimore 2 SE 89 Glenmont 1 NNE 89 Oxon Hill 89 MINIMUM TEMPERATURE

#### Davis 3 SE WV 23 Mont. Village 1 SW 27 Frostburg 28

# WARMEST AVG. TEMP. Baltimore 2 SE 61.3 Oxon Hill 59.9

# Ridge 59.9 COLDEST AVG. TEMP.

Davis 3 SE WV 47.1 Frostburg 49.7 Manchester 1 SW 54.2 MAXIMUM PRECIPITATION

Davis 3 SE WV 10.99 Smithsburg 1.5 SW 9.64 Smithsburg 3 NE 9.38

MINIMUM PRECIPITATION
Harbeson DEOS 8 S DE 1.62
Rehoboth Beach DEOS DE 2.06
Georgetown DEOS 5 SW DE 2.67

#### MAXIMUM SNOWFALL

Davis 3 SE WV 23.3 Manchester 1 SW 3.2 Millers 4 NE 2.0

#### **WEATHER PARTY**

SATURDAY, JULY 30, 2011 HOME OF HERB CLOSE MANCHESTER 1 SW More information to follow.

#### **OBSERVER COMMENTS FOR APRIL 2011**

#### Gary Gallaher of Bear 2 SW, DE

Cloudy month, only 2 clear days. First April without a freezing temperature in 45 years of records. Average minimum temperature 1.5° warmer than the previous record set in 1994. Seven days with max temps in the 80's broke the old record of 5 days set in 1994, tied 2010.

27th - 68° tied max minimum temp for the month set 1977.

#### **Greg Latta of Frostburg**

Seven days with thunder. 2nd wettest April. Record is 9.28" set in 1964.

#### Nate Mullins of LaVale

Wet and mild. Temps 2.5° above normal almost entirely to well above normal overnight lows, and only a handful of subfreezing lows, which is very unusual.

**22nd** - Record low max high only 48°. Some snowflakes fell on some nearby ridges.

26th - A line of severe thunderstorms to the west and north prompted a tornado warning but weakened as it approached.

**28th** - A fast moving line of severe storms passed through around 1 AM prompted a tornado warning.

#### Jeff Stoudt of Laurel 2 E

April was highlighted by frequent showers, some with thunder, but no really heavy rain resulting in a near normal rainfall. The warmth came in four brief spikes and reached summery levels on three of them.

5th - Gusty TSRA toward dawn (0.19").

16th - Periods of rain after daybreak.

#### Marty Sharrow of Owings Mills

April 2011 started off more like late winter with max/min temperatures running well below normal. The cold air did not stick around very long and temperatures warmed to near summertime values on the 4<sup>th</sup>. Overall, temperatures for the month were about 2° above normal. There was a spell of summer-like heat and humidity during the last week. Precipitation for the month was quite plentiful, namely some 1 <sup>3</sup>/<sub>4</sub>" above normal.

#### Joe Manfre of Baltimore 2SE

Seven days with thunder.

16th - Very windy, heavy rain.

#### Ralph Hartsock of Westminster 4 SSE

Daily PWG => 40MPH on the 5th (43 mph WNW), 16th (42 mph ESE) & 17th (40 mph WSW).

**5th -** Rain and thunderstorms early. Flakes mixed in at noon. **16th -** Rain, thunderstorms, flooding, tornadoes, lots of damage.

28th - Tornado warnings all night and AM hours, flooding.

#### **Bobby Miller of Millers 4 NE**

Second wettest April in 29 years of records. Only 1983 was wetter with 8.18". Winds gusted to over 50 mph on the 4th (58 mph), 16th & 17th (each 52 mph), and 20th (51 mph). A lot of carry over temperatures. Usually April has the biggest difference in 6 PM vs. midnight data.

#### **Bobby Miller of Millers 4 NE (Cont.)**

**4th & 5th -** First time with two consecutive days with a range of 40+ degrees.

28th - AM storms, heavy rain local flooding.

#### **Ray Muller of Reisterstown**

Average temperature using the Bruce Watson method (9 PM temperatures averaged) 57.1°. Hourly maximum temperature 84° on the 4th (first occurrence) and, hourly minimum temperature 33° on the 1st & 2nd.

#### **Eric Glass of Emmitsburg 2 SE**

1st - Light drizzle, calm and cold at obs time.

19th - Dew on grass, slight breeze at obs time.

#### Rich Giannola of JHU/APL

Barometric pressure extremes: 30.43" 22nd, 29.25" 5th. Winds gusted over 40 mph on 4th (42) 5th (40 mph) 16th (46 mph).

#### Ron Berger of Norbeck 1 SE

2nd - Small hail 1/8" diameter (rice size) 12:21-12:22 PM.

#### Rob Cohen of Potomac 4 N

**4th** - Record maximum temperature. Occasional thunder 9:30 - 12 PM.

11th - Record Maximum temperature.

28th - Morning minimum temperature 72°.

#### Rich Giannola of Olney 1 S

**5th** - Morning SHRA with TSRA at 4:50 AM. 0.28" fell by 6:20 AM. SHRA in morning and early afternoon with 0.06" more before clearing and turning cooler in the afternoon.

#### Richard Holden of Clarksburg 2 ENE

Winds gusted to 40+ mph on the 5th (46 mph), 16th (41 mph), 28th (48 mph).

3rd - Hail.

22nd - Moderate rain, light sleet.

#### Stan Rossen of Glenmont 1 NNE

I busted my April record for highest minimum temperature of  $65^{\circ}$  (4/30/83, 4/9/91, & 4/18/02) by 3° on 4/26 and then broke that by 1° the next day.

#### Kevin Shaw of Gaithersburg 2 WNW

Third wettest April surpassed only by 1983 (7.50") and 2008 (6.64"). My average minimum temperature of 47.4° set an all-time warmest average minimum for April breaking the old record of 45.9° set back in 2008.

22nd - Record low maximum temperature of 48°.

25th—27th - Record maximum minimum temp each day.

27th - 69° set all-time record maximum minimum temperature for April.

#### Joe Terry of Forest Glen

Warmest average minimum temperature and second warmest April in 16 years of station records.

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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.

#### APRIL 2011 MD / DE / DC ACON

#### **OBSERVER COMMENTS**

**CONTINUED FROM PAGE 2** 

#### Joe Terry of Forest Glen (Continued)

**2nd -** Two afternoon showers each with 12 degree temperature drops. The second was accompanied by 0.1" to 0.2" diameter hail from 1433 to 1436.

3rd - 0.2" diameter hail around 2140.

#### **Brian Smith of Oxon Hill**

2nd - 1/4" hail 1458 to 1500.

5th - Brief strong TSRA around 0430.

**16th -** TSRA 1602-1800 not severe. Gale force SE winds brought down a  $\sim$ 6" diameter dead branch in neighbor's yard. **27th -** +TSRA 1900-2000; tornadic thunderstorms just south, then just north of the area. GR (hail) B1931E1933, ½" diameter.

#### Wes Gleason of Hollywood 3 ENE

28th - The tornadoes in St Mary's and Calvert county went right over the house. Lucky they were not on the ground. It blew the top of my chimney cap off and downed a neighbors tree. It was amazing watching it happen. I did not see a funnel, but heard the high winds on the roof and looked at the wind gage to see less than 20 MPH but 30 to 50 feet off the ground they were moving pretty good. I looked out at the creek and it didn't seem windy. Then the power went out which was the neighbors tree falling on the power lines. Didn't realize there was a tornado until I saw the National Weather service post the Calvert storm a few days later. I had already sent in a weather report for SKYWARN about the wind and damage.

#### John Zyla of Ridge

**22nd -** Cloudy, cool, drizzle all day, most rain 6:30-9:00 PM. **28th -** Thunderstorm 12:45-1:05 PM & 7:00-9:00 PM.

#### Max Hutto of Smithsburg 1.5 SW

**16th** - Rain thoughout the day, heavy at times. Creek flooding, cool, very windy.

24th - Easter Sunday mostly sunny, warm, breezy.

**28th -** Overnight severe thunderstorms, heavy rain, pea size hail, extremely windy (46 mph)

#### Greg Keefer of Hagerstown 1 E

Four days with peak wind gusts =>40 mph: 16th (40 mph SE), 17th (51 mph W), 20th (50 mph SW), & 28th (51 mph SW).

Wettest April on record with 8.07" breaking the old record of 7.80" set in 1952.

**3rd** - Thunderstorms 8 PM to midnight with frequent lightning and thunder with some very close strikes and also some marble size hail which fell around 10:30 PM. Most storms passed N & NE of the city only 0.07" of rain fell here.

4th - Record high of 82°. The old record of 81° was set in

28th - Series of strong thunderstorms overnight between 2

AM and 7 AM with very heavy downpours, frequent lightning, and strong winds gusting up to 51 mph. 2.42" of rain fell in a very short time. Flash flooding reported on roads and in creeks and rivers. Wind gusts caused down trees and some power outages in the area.

#### Jim Vaughn of Smithsburg 3 NE

Wettest April with 9.38". Old record was 8.37" in 1952. Winds gusted over 40 mph on 11 days with four of them over 50 mph: 16th (53 mph), 17th & 27th (each 56 mph), and 28th (61 mph).

Record low daily maximum temperatures set on the 1st, 22nd, & 29th.

25th & 26th - Record high daily minimum temperature.

#### Lance Shaffer of Sterling 4 N VA

Not many days without precipitation. Nice cool finish to the month.

27th - 70° at obs time.

#### Dave Lesher of Davis 3 SE WV

**5th -** 14 inch snow depth on the 3rd melted down to a Trace.

17th - Last day with snow on the ground (1") this month.

## MONTHLY REPORT CONTINUED FROM PAGE 1

ported that he broke the old record of 65° on the 26th and on the 27th that broke the new record set the day earlier.

Severe storms associated with the storm system which brought a deadly tornado outbreak to the Southeast occurred on the 27th and 28th. Nearly a dozen tornadoes were reported in Maryland from southeast of Washington DC to west of Baltimore and in Western Maryland. Most of the storms were classified EF-0 but a couple of EF-1's were reported. Heavy rains fell in Carroll and Washington Counties Maryland resulted in some flooding. Over 2 inches were reported by the following ACON observers:

Mac Hutto of Smithsburg 1.5 SW 3.28"
Jim Vaughn of Smithsburg 3 NE 2.89"
Herb Close of Manchester 1 SW 2.44"
Greg Keefer of Hagerstown 1 E 2.42"
Bobby Miller of Millers 4 NE 2.38"

The month ended on a seasonal note with maximum temperatures generally in the 60's and minimums in the 40's.

#### APRIL 2011 MD / DE / DC ACON

#### **Tornado Reports for Maryland**

#### April 5th

#### 1 ENE Norwood, Charles County 38.65, -76.89 EF-0

A weak EF-0 tornado with peak winds of 65 MPH briefly causes some damage in North Waldorf before dissipating. Damage included a large pine tree pushed into a house roof.

#### 2 SE Crofton, Prince Georges / Anne Arundel Counties 38.97, -76.72 EF-0

Brief weak tornado produced minor tree damage near the communities of Sherwood Manor and Patuxent Preserve.

#### April 16th

#### 2 NNE New Market, Frederick County 39.41, -77.26 EF-1

Max winds 90-100 mph, numerous trees uprooted. Barns partially destroyed, Roof Damage to Residence.

#### 3 NE New Market, Frederick County 39.41, -77.24 EF-1

Small barn destroyed. Roofs partially off of warehouses, numerous tree damage.

#### 3 SE Unionville, Frederick County 39.44, -77.15 EF-0

Trees snapped and shingles removed from residence. Tornado ended in Carroll County.

#### 1 SW Deep Run, Carroll County 39.68, -77.00 EF-0

Numerous trees uprooted and snapped. Tree into house. Two barns partially unroofed.

#### April 27th

#### 1SE Friendly, Prince Georges County EF-0

A brief tornado occurred at Potomac Airfield. Six general aviation aircraft suffered minor to major damage.

#### Andrews AFB & Camp Springs 38.81, -76.90 EF-0

Numerous trees uprooted and snapped in a wooded area just SW of the intersection of Auth Road and Allentown Road onto Andrews AFB

#### April 28th

#### 2 N Town Creek, Allegany County 39.55, -78.54 EF-0

Numerous trees uprooted along the hillside. A large tree three feet in diameter partially fell on a residence.

#### 3 NW Green Ridge, Allegany County 39.60, -78.48 EF-0

Numerous trees were uprooted and / or topped in a small area of Mertens Road. Tree canopies showed evidence of convergent flow near the damage track.

#### N of Poolesville, Montgomery County 39.15, -77.42 EF-0

Spotty tree damage observed along the track on Beallsville Road, Elgin Road, and Jerusalem Road.

#### Westminster, Carroll County 39.57, -76.99 EF-0

Tracked from near Old Westminster Pike across Ralph and Center Street before lifting as it crossed Route 97. Uprooted and snapped several trees and downed large branches.

#### 2 E Hampstead, Baltimore County 39.61, -76.83 EF-0

Tracked from near the Carroll County line along Mt Carmel Road for 1.1 miles. Snapped and uprooted several trees and downed large branches. The storm tracked across Marshall Mill Road.

#### 2 WNW Hereford, Baltimore County 39.60, -76.71 EF-0

Touched down briefly just north of Evna Road in a heavily wooded area. Damage was limited to trees.

#### Breton Bay, St Marys County 38.26, -76.67 EF-1

The tornado tracked across Breton Bay. It snapped and uprooted numerous large trees and caused some home roofing and siding damage. The tornado passed over Camp Calvert

#### Lusby, Calvert County 38.37, -76.47 EF-0

Tracked briefly from near the intersection of Hilltop Road and Coster Road to the intersection of Solomons Island Road and Sweetwater Road. Six instances of damage noted along path including approximately a dozen trees uprooted.

Source of information: Sterling NWS Web Site & NOAA Severe Weather Prediction Web Site

Not all tornadoes may be listed. Detailed information can be found on the Sterling Web site for all except the tornadoes of the 16th.

#### ACON MD /DE / DC APRIL 2011 SUMMARY

					TI	EMPER	RATUF	RE				PE	AK WII	ND		Pl	RECIP	IOITATIO	N			SNOW	/FALI	L	OBS
OBSERVER	STATION	AVG	AVG	MEAN	MAY	DAV	MINI	DAV	MAX	MAX	MIN	CHST	DID	DAV	TOTAL	MAX	DATE	YEAR	DAYS	DAYS	TOTAL	MAX	DATE	SEA-	TIME
COUNTY,	STATE	MAX	MIN	MEAN	WAX	DAY	IVIIIV	DAY	>=90	<=32	<=32	GUST	DIK	DAY	IUIAL	DAY	DATE	YEAR	>=.01"	>=1"	IUIAL	DAY	DATE	SON	
New Castle,	, Delaware																								
Gallaher, Gary	Bear 2 SW	66.3	46.9	56.6	84	25	34	2	0	0	0	44	ESE	16	4.37	1.59	16	14.72	14	1	0.0	0.0		27.0	2400
Legates, David	Middletown 6 N	66.6	46.8	56.7	84	24+	32	2	0	0	1	31		12	4.54	1.55	16	13.36	17	1					2400
NWS Wilmington	New Castle Co. Apt.	65.5	46.4	56.0	82	24+	34	2	0	0	0	54	SE	16	4.71	1.65	16	14.88	14	1	0.0	0.0		27.0	2400
UofD AG FARM DEOS***	Newark	65.2	46.6	55.9	83	25	34	1+	0	0	0	34		16	4.74	1.51	16	10.17	14	1					2400
U of D REC DEOS***	Townsend 4 W	65.9	46.9	56.4	84	25	35	1+	0	0	0	34		5	4.59	1.45	16	13.40	17	1					2400
Sussex, L	<u>Delaware</u>																								
NWS Georgetown	Sussex Co. Airport	68.3	48.1	58.2	85	24+	33	6	0	0	0	53	SSE	16	2.62	0.95	16	11.45	12	0					2400
U of D REC DEOS***	Georgetown 5 SW	67.6	47.4	57.5	84	24+	31	6	0	0	1	35		28	2.67	1.11	16	11.37	11	1					2400
U of D REC DEOS***	Harbeson 8 S	66.8	47.2	57.0	85	24+	32	6	0	0	1	31		16	1.62	0.32	28	10.82	13	0					2400
U of D DEOS***	Rehoboth Beach Bwk	64.9	48.2	56.6	86	20	37	1+	0	0	0	42		16	2.06	0.94	16	10.82	13	0					2400
Allegany, I	<u>Maryland</u>																								
Latta, Greg	Frostburg	59.8	39.6	49.7	84	26	28	2+	0	1	5				8.04	1.35	17	19.86	21	2	0.6	0.3	2+	50.1	0700
Mullins, Nate**	LaVale	64.2	44.3	54.3	84	27	31	6	0	0	1				6.07	1.19	16	16.46	14	2	Т	T	1+	26.2	2400
Anne Arunde	el, Maryland																								
Hanson, Dan	Pasadena 2 N	68.3	47.0	57.7	88	20	32	6	0	0	1	36	S	16	3.46	0.93	16	13.20	18	0	0.0	0.0		12.3	2400
Jug Bay Wetlands	Lothian	70.5	47.0	58.8	89	24	30	2	0	0	2				5.58	1.31	24	16.57	16	2	0.0	0.0		6.8	2400
NWS Baltimore	BWI Airport	68.1	47.3	57.7	86	4+	32	2	0	0	1	54	SE	16	3.52	1.29	16	13.86	14	1	0.0	0.0		14.4	2400
Stoudt, Jeff	Laurel 2 E	68.3	48.1	58.2	86	20+	34	2+	0	0	0				3.41	0.86	16	12.96	14	0	0.0	0.0		13.7	2400
<u>Baltimore,</u>	<u>Maryland</u>																								
Muller, Ray	Reisterstown														5.12	1.08	16	16.69	18	1	0.1	0.1	1	5.3	2100
Sharrow, Marty	Owings Mills 2 SE	65.9	45.2	55.6	87	11	31	2+	0	0	4	42	SE	16	4.78	1.42	16	17.36	13	1	Т	T	1	28.1	2400
<u>Baltimore Cit</u>																									
Manfre, Joe	Baltimore 2 SE			61.3	89	20	39	1+	0	0	0				_	1.24	16	13.64	14	1	0.0	0.0		13.9	2400
Maryland Science Ctr	Baltimore Inner Harbor	70.2	52.0	61.1	88	11+	39	1	0	0	0				4.15	1.24	16	14.05	13	1					2400
<u>Carroll, N</u>	<del></del>																								
Close Jr, Herb	Manchester 1 SW	64.3	44.1	54.2	84	25	30	1	0	0	4				7.36	2.18	28	17.93	12	2	3.2	3.2	1	35.7	2300
Hartsock, Ralph	Westminster 4 SSE	67.6	46.8	57.2	86	25+	30	6	0	0	3	43	WNW	5	6.82	1.57	28	17.76	17	1	8.0	8.0	1	28.6	1800
Miller, Bobby	Millers 4 NE	67.4	44.7	56.1	83	11+	31	3	0	0	3	58	WSW	4	7.78	2.38	28	19.86	16	2	2.0	2.0	1	35.5	1800
<u>Charles, I</u>	<u>Maryland</u>																								
Brumback, Marty	Bryans Road 2 ESE																	<u>4.97</u>						<u>10.7</u>	2400
Frederick,	<u>Maryland</u>																								
Glass, Eric	Emmitsburg 2 SE	64.1	44.4	54.3	85	26	31	7	0	0	3				6.94	2.37	17	18.74	16	1	0.0	0.0		24.0	0700

#### ACON MD /DE / DC **APRIL 2011 SUMMARY**

					TE	EMPER	RATUF	RE				PE,	AK WII	ND		Р	RECIP	IOITATI	N			SNOW	FALL	-	OBS
OBSERVER	STATION		AVG	MEAN	MAY	DVA	MIN	DVA	MAX	MAX	MIN	CHST	DID	DVA	TOTAL	MAX	DATE	YEAR	DAYS I	DAYS	ΤΩΤΛΙ	MAX	DATE	SEA-	TIME
COUNTY,	STATE	MAX	MIN	IVICAIN	IVIAA	DAT	IVIIIV	DAT	>=90	<=32	<=32	GUST	DIK	DAT	IUIAL	DAY	DATE	TEAR	>=.01"	>=1"	IUIAL	DAY	DATE	SON	
Howard, N	Maryland																								
Giannola, Rich	Laurel JHU / APL	67.1	47.5	57.3	86	25	34	1	0	0	0	46	SE	16	3.92	1.02	16	13.72	14	1	Т	Т	1	18.7	2400
<u>Montgomery</u>	, Maryland																								
Berger, Ron	Norbeck 1 SE	68.2	47.6	57.9	85	4	32	6	0	0	1				4.34	1.24	16	14.26	16	1	0.0	0.0		15.0	2200
Cohen, Rob	Potomac 4 N	69.0	47.9	58.5	86	25	30	2	0	0	2				5.23	1.53	16	15.89	17	1	0.0	0.0		13.8	2100
Giannola, Rich	Olney 1 S	67.8	46.7	57.3	85	25	31	2	0	0	2				4.32	1.04	16	14.13	13	1	Т	Т	22	17.2	2400
Holden, Richard	Clarksburg 2 ENE	65.9	46.4	56.2	84	25	33	1+	0	0	0	48	SE	28	6.68	1.24	16	17.25	16	1	0.1	0.1	1	27.4	2400
Roth, David	Montgomery Village 1SW	69.7	45.3	57.5	88	25	27	2	0	0	3				4.41	1.02	16	12.02	13	1	Т	Т	2	1.9	2400
Rossen, Stan	Glenmont 1 NNE	69.3	47.2	58.3	89	25	32	2+	0	0	2	30	S	16	4.11	1.12	16	13.99	14	1	Т	Т	1	13.5	2400
Scafide, Tony	Bethesda	68.6	48.3	58.5	86	4+	34	2+	0	0	0	20		3+	3.66	1.00	16	12.42	17	1					2400
Shaw, Kevin	Gaithersburg 2 WNW	68.4	47.4	57.9	86	25	32	2	0	0	1	28	NE	10	5.79	1.26	16	15.66	15	1	Т	Т	1	18.0	2400
Terry, Joe	Forest Glen	70.6	47.8	59.2	90	25	32	2	1	0	1	36	wsw	4	4.48	1.18	16	15.10	15	1	0.0	0.0		15.5	2400
Prince George	es, Maryland																								
Smith, Brian	Oxon Hill	70.7	49.1	59.9	89	25	34	2	0	0	0				5.68	1.39	27	15.79	15	1	0.0	0.0		14.3	2300
St. Marys,	Maryland Paryland																								
Gleason, Wes	Hollywood 3 ENE	72.2	51.2	61.7	85	24+	35	1	0	0	0				3.55	1.16	17	11.73	16	1	0.0	0.0		5.9	0700/2400
Zyla, John	Ridge	69.4	50.3	59.9	88	25	37	6	0	0	0	41		16	3.72	1.03	12	11.26	13	1	0.0	0.0		13.9	2400
Washington,	Maryland																								
Hutto, Max	Smithsburg 1.5 SW	66.5	45.4	56.0	87	25	32	2	0	0	1	46		28	9.64	3.28	28	19.47	15	3	Т	Т	1+	26.5	2400
Keefer, Greg	Hagerstown 1 E	66.0	45.5	55.8	85	11	31	2	0	0	2	51	W+	17+	8.07	2.42	28	17.27	14	2	Т	Т	1	23.4	2400
Vaughn, Jim	Smithsburg 3 NE	64.1	44.7	54.4	83	25	32	1	0	0	1	61	W	28	9.38	2.89	28	19.66	12	3	Т	Т	22	28.7	2400
Wicomico,	Maryland																								
NWS Salisbury	Wicomico Co. Apt	69.8	48.5	59.2	85	24+	30	6	0	0	2	54	SW	5	1.70	0.47	16	9.95	11	0					2400
<u>Arlington,</u>	Virginia																								
NWS Washington Nation	a National Airport	68.6	49.0	58.8	86	20	36	2+	0	0	0	58	SE	16	3.20	0.74	24	11.97	14	0	0.0	0.0		10.1	2400
<u>Loudon,</u>	Virginia																								
NWS Washington Dulles	Dulles Airport	68.7	45.9	57.3	86	25	30	6	0	0	4	43	W	16	5.21	1.33	27	14.36	13	2	0.0	0.0		12.6	2400
Shaffer, Lance	Sterling 4 N	67.7	48.6	58.2	85	25+	33	2	0	0	0				5.06	1.17	12	14.89	13	1	0.0	0.0		13.3	2400
Tucker, We	st Virginia																								
Lesher, Dave	Davis 3 SE WV	56.9	37.3	47.1	80	26	23	1+	0	4	13				10.99	1.68	20	28.02	19	5	23.3	10.8	3	214.3	0700
SECTION A	VERAGE*	67.5	47.1	57.3											4.91			15.19			0.2			19.3	

\*SECTIONAL AVERAGE DOES NOT INCLUDE DATA FROM WEST VIRGINIA.

#### NOTES:

M OR <u>UNDERLINE</u>= MISSING DATA > = INCLUDED IN NEXT DAYS DATA ITALIC = ESTIMATED DATA + = FIRST OF SEVERAL OCCURANCES

WINTER TYPE PRECIPITATION FROM STATIONS WITH TIPPING BUCKET RAIN GAUGE MAY SHOW UNDER CATCH. ALSO AMOUNTS CAUGHT MAY BE NOTED IN THE FOLLOWING DAYS AS IT MELTS.

National Weather Service station data listed herein is preliminary and may be subject to change. The data has not been certified and cannot be used in legal actions. Only reports certified by the National Climatic Data Center in Asheville, NC may be used for these purposes. Accuracy of Data from ACON Observers not guaranteed.

GARY GALLAHER 1/27/12 Rev 2

<sup>\*\*</sup>OBSERVER FOR LAVALE IS SCOTT LOHR. DATA COMPILED BY NATE MULLINS.

<sup>\*\*\*</sup> DATA FROM DEOS (DELAWARE ENVIROMENTAL OBSERVING SYSTEM) PERMISSION GRANTED FOR USE OF DATA

<sup>\*\*\*</sup> REC= UNIVERSITY of DELAWARE RESEARCH AND EDUCATION CENTER

#### ACON MD / DE / DC APRIL 2011 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		AVG	OBS TIME
BEAR 2 SW, DE	47	52	58	80	75	59	58	45	56	63	81	71	53	69	61	58	63	62	63	83	70	51	70	83	84	83	81	78	68	65		66.3	2400
GALLAHER	36	34	39	47	40	38	44	40	41	47	46	50	46	46	44	45	50	49	49	47	49	41	43	57	59	66	68	55	46	46		46.9	EDT
MIDDLETOWN 6 N	46	53	59	81	74	60	58	45	57	63	81	70	53	70	61	60	63	64	64	83	70	50	70	84	84	83	82	77	69	66	$\Box$	66.6	2400
LEGATES	36	32	38	46	38	36	43	40	41	46	46	50	46	46	45	45	50	49	52	47	48	41	43	57	60	65	68	57	47	48		46.8	EDT
WILMINGTON , DE	47	52	59	79	71	58	58	46	56	60	81	70	51	70	60	59	62	63	60	82	64	50	69	82	82	82	79	78	68	67	$\Box$	65.5	2400
NWS NEW CASTLE CO APT	35	34	36	46	38	36	43	40	41	47	49	49	46	47	44	44	49	48	48	47	45	39	42	59	59	63	64	57	49	47		46.4	EST
NEWARK AG FARM, DE	46	51	58	79	72	58	58	45	55	62	80	70	52	68	59	57	62	63	59	82	67	50	69	82	83	82	81	77	67	65	$\Box$	65.2	2400
U OF DE DEOS	34	34	36	46	39	36	43	40	41	47	47	49	45	48	44	44	50	49	47	47	48	40	42	58	58	67	68	57	49	48		46.6	EDT
TOWNSEND 4 W, DE	46	51	56	80	72	59	57	45	56	64	80	70	53	69	59	63	62	69	66	81	67	49	70	82	84	82	81	77	65	63	$\Box$	65.9	2400
U of D REC DEOS	35	36	37	45	41	35	40	40	39	46	52	50	46	43	45	45	49	50	52	46	44	39	43	60	61	67	68	58	50	47		46.9	EDT
GEORGETOWN, DE	47	53	57	81	70	59	61	53	57	66	79	71	61	69	58	63	64	74	73	85	70	50	75	85	85	84	82	83	71	63		68.3	2400
NWS SUSSEX CO APT	37	35	40	46	43	33	42	42	42	46	54	49	49	48	42	47	52	47	51	52	44	43	46	63	61	67	66	63	49	45		48.1	EST
GEORGETOWN, DE	46	52	56	79	70	58	63	51	56	68	77	73	61	68	59	64	63	74	72	84	69	50	74	84	84	82	82	81	70	62	$\vdash$	67.6	2400
U of D REC DEOS	37	34	39	45	41	31	42	41	41	46	52	49	48	47	41	46	50	47	51	51	43	42	44	63	60	67	66	63	50	47		47.4	EDT
HARBESON 8 S. DE	46	53	56	79	70	58	58	51	53	60	78	73	59	66	55	63	63	73	74	84	69	49	74	85	85	83	80	81	70	61	$\vdash$	66.8	2400
U of D REC DEOS	37	33	39	45	41	32	39	41	42	45	53	48	48	47	40	47	51	47	51	51	41	41	45	63	60	67	66	63	49	43		47.2	EDT
REHOBOTH BEACH BWK	47	52	57	79	65	59	54	46	46	53	79	72	53	65	53	61	64	66	71	86	73	52	75	79	79	76	72	80	72	62	$\vdash$	64.9	2400
U of D DEOS	37	38	40	45	43	37	43	43	43	45	54	47	46	49	46	47	52	52	50	52	52	45	46	60	58	57	56	57	55	49		48.2	EDT
FROSTBURG	32	38	42	47	80	42	61	67	41	41	69	81	47	47	66	63	51	56	71	59	72	55	55	76	74	84	81	78	65	52	$\vdash$	59.8	0700
LATTA	29	28	32	33	38	28	30	35	35	35	39	47	43	39	38	40	34	35	39	46	38	36	35	44	56	58	55	56	47	39		39.6	EDT
LAVALE	38	46	52	82	62	62	70	51	48	70	82	62	48	70	68	52	60	68	56	72	60	48	74	76	82	83	84	68	62	70	$\vdash$	64.2	2400
MULLINS**	34	33	38	38	35	31	37	45	39	44	49	48	46	35	42	46	42	43	47	48	44	40	44	56	57	57	57	58	53	44		44.3	EDT
PASADENA 2 N	49	51	59	86	77	65	61	49	54	62	84	72	56	72	65	62	67	71	65	88	69	51	74	82	84	83	79	76	69	69	+	68.3	2400
HANSON	36	33	34	45	41	32	44	42	42	49	53	51	48	41	43	47	47	48	54	49	44	42	44	58	60	67	66	57	47	47		47.0	EDT
LOTHIAN	49	54	61	88	77	66	66	52	53	66	87	75	59	72	66	64	68	79	70	88	68	48	74	89	89	86	84	78	71	70	+	70.5	2400
JUG BAY	36	30	33	48	43	31	41	43	42	49	56	52	50	41	42	48	45	48	57	50	42	40	44	59	59	67	68	55	47	47		47.0	EDT
BALTIMORE	49	52	59	86	73	64	61	48	52	63	85	72	56	72	63	63	66	73	65	86	64	50	74	85	85	84	80	78	68	68	$\vdash$	68.1	2400
NWS BWI APT	36	32	38	43	39	34	44	42	42	50	53	51	47	42	45	48	47	48	53	50	44	42	44	58	61	68	67	55	49	48		47.3	EST
LAUREL 2 E	47	50	56	86	72	66	67	50	52	64	84	71	55	72	66	60	67	75	65	86	65	49	74	85	86	86	82	77	67	68	$\vdash$	68.3	2400
STOUDT	36	34	37	42	41	34	45	42	42	49	53	51	48	43	45	48	46	47	56	51	46	43	43	60	62	68	69	59	52	50		48.1	EST
REISTERSTOWN	- 00	01	0,	72		01	-10	72	72	-10	-00	<u> </u>	-10	10	-10	-10	-10		- 00	0.	-10	-10	-10	- 00	02	-00	- 00	- 00	02	- 00	$\vdash$	70.1	1900
MULLER																																	EDT
OWINGS MILLS 2SE	45	49	57	81	70	61	60	46	51	62	87	71	55	70	61	59	63	69	60	82	63	48	72	83	84	84	77	76	63	68	+	65.9	2400
SHARROW	32	31	32	40	40	31	38	40	38	49	58	51	45	40	44	43	43	46	50	47	47	39	39	59	58	63	65	53	49	45		45.2	EDT
BALTIMORE 2SE	52	53	60	87	75	66	64	51	56	64	88	74	60	74	66	65	69	72	67	89	69	53	77	85	84	87	82	80	72	70	+	70.4	2400
MANFRE	39	39	42	48	44	41	47	44	45	53	56	54	50	50	51	50	51	55	57	55	53	46	47	63	67	71	69	66	58	53		52.1	EDT
BALT INNER HARBOR	51	53	60	87	74	67	64	50	56	63	88	75	60	73	66	65	69	72	66	88	69	53	76	84	84	87	83	81	71	70	$\vdash$	70.2	2400
MD SCIENCE CENTER	39	40	42	48	44	41	47	44	45	53	55	54	50	50	50	50	51	55	57	53	53	46	47	63	66	71	69	66	58	53		52.0	EST
MANCHESTER 1SW	44	48	55	77	67	59	61	46	49	59	83	68	52	68	61	59	61	66	61	80	61	45	69	82	84	82	79	75	64	63	$\vdash$	64.3	2300
CLOSE	30	31	32	66	34	31	37	36	36	44	49	46	42	40	41	40	41	46	49	46	44	36	37	59	58	63	64	56	47	42		44.1	EDT
WESTMINSTER 4 SSE	48	53	59	79	70	63	66	47	57	67	84	70	60	68	59	59	65	73	61	81	64	51	71	84	86	86	85	78	68	67	$\vdash$	67.6	1800
HARTSOCK	32	31	33	41	43	30	40	44	40	47	50	54	46	43	46	46	45	47	51	50	48	40	42	60	59	64	68	66	53	46		46.8	EDT
MILLERS 4NE	45	49	53	82	80	59	60	55	51	61	83	81	52	69	67	58	61	68	67	80	78	57	71	81	83	83	79	76	70	64	+	67.4	1800
MILLER	32	32	35	41	38	31	38	39	37	45	51	51	44	43	43	42	42	45	45	47	45	36	38	57	59	65	66	63	48	44		44.7	EDT
BRYANS ROAD 2 ESE	JZ	JZ	JÜ	41	50	υı	50	აუ	υı	40	JΙ	JΙ	44	43	40	44	44	40	40	41	40	50	50	JI	Jä	υü	00	US	40	44	+-+	44.7	2400
BRUMBACK																																	EDT
EMMITSBURG 2 SE	41	48	52	56	81	59	62	60	46	49	62	82	59	55	70	64	60	63	65	57	82	63	46	70	81	85	84	82	76	63	+-	64.1	0700
	33	32	35	38	38	32	0∠ 31	41	40	49	62 47	o∠ 54	46	42	41	45	43	44	44	46	62 47	39	40	45	59	59	66	69	51	45		_	EDT
GLASS	JJ	JZ	JÜ	50	50	JZ	IJΙ	41	4∪	41	41	J <del>4</del>	40	44	41	40	40	44	44	40	41	J	4∪	40	Jä	J	UU	บฮ	JI	40	لـــــــا	44.4	LUI

#### ACON MD / DE / DC APRIL 2011 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	T	AVG	OBS TIME
LAUREL JHU / APL	46	49	55	84	71	63	65	48	50	63	84	72	54	70	62	61	65	75	67	84	66	47	72	84	86	83	80	78	64	65		67.1	2400
GIANNOLA	34	36	37	43	40	36	42	40	40	49	53	49	46	45	45	45	46	50	55	50	44	40	41	62	63	67	67	61	53	47		47.5	EDT
NORBECK 1 SE	46	49	57	85	80	64	68	55	50	62	84	76	54	68	66	61	65	75	68	83	72	49	71	83	84	84	81	76	65	66		68.2	2200
BERGER	35	33	34	48	42	32	43	41	41	49	54	52	48	43	46	47	46	46	58	51	48	42	42	57	60	67	68	60	48	47		47.6	EDT
POTOMAC 4N	48	50	58	85	77	65	70	54	49	63	85	76	55	69	67	61	67	75	70	84	70	52	73	83	86	86	81	78	65	67	1	69.0	2100
COHEN	34	30	34	49	45	31	44	41	41	47	51	53	49	43	45	49	46	46	56	53	50	42	42	56	60	68	68	65	49	49		47.9	EDT
OLNEY 1 S	47	>	57	83	71	63	68	50	50	63	84	70	53	70	66	60	65	74	62	83	65	47	72	83	85	84	80	78	65	67		67.8	2400
GIANNOLA	34	>	31	46	39	31	41	40	40	47	53	50	47	40	45	46	44	46	55	50	47	41	41	56	59	65	65	56	50	48		46.7	EDT
CLARKSBURG 2ENE	47	50	55	82	69	62	63	48	49	61	82	68	53	67	66	60	65	74	63	82	60	47	72	82	84	83	80	75	63	65		65.9	2400
HOLDEN	33	34	36	46	36	33	37	39	39	46	57	49	46	43	45	45	43	49	52	50	46	40	41	60	61	66	67	57	50	45		46.4	EST
MONTGOMERY VILLAGE	50	53	61	84	72	65	70	54	53	66	86	72	56	70	69	61	68	76	66	86	66	49	75	86	88	87	84	78	70	69		69.7	2400
ROTH 1SW	33	27	31	44	38	29	40	41	41	48	52	51	46	39	41	47	44	43	54	49	42	40	42	54	58	66	69	58	47	46		45.3	EDT
GLENMONT 1NNE	50	52	58	87	70	66	70	50	51	64	87	69	55	71	68	62	68	77	66	86	65	48	76	87	89	88	83	80	69	68		69.3	2400
ROSSEN	35	32	34	47	38	32	43	42	42	49	57	52	48	42	43	47	46	45	54	51	43	42	44	55	60	68	69	58	49	49		47.2	EST
BETHESDA	47	51	58	86	78	65	69	54	50	64	86	73	55	70	66	62	67	76	67	85	67	49	73	83	85	83	81	78	67	66		68.6	2400
SCAFIDE	36	34	35	48	42	34	44	42	42	49	57	51	48	43	48	48	46	49	58	53	49	42	43	59	62	66	68	60	50	48		48.3	EDT
GAITHERSBURG 2WNW	47	52	57	85	70	65	69	53	50	64	85	70	55	72	67	61	69	76	66	86	66	48	75	83	86	85	81	75	65	67		68.4	2400
SHAW	36	32	34	47	40	33	42	42	42	48	56	52	48	42	44	48	46	46	54	51	46	42	43	56	59	67	69	60	50	47		47.4	EDT
FOREST GLEN	52	55	59	87	71	67	74	51	51	65	87	71	56	74	69	62	68	78	69	88	67	49	76	88	90	87	84	81	71	71		70.6	2400
TERRY	36	32	35	48	40	33	44	42	42	49	57	51	48	42	46	47	46	47	56	52	46	42	43	57	62	67	68	59	49	48		47.8	EDT
OXON HILL	51	53	61	87	75	66	73	52	51	66	87	74	60	72	68	64	70	78	71	85	68	52	74	88	89	85	84	78	70	68		70.7	2300
SMITH	37	34	38	50	43	34	45	42	42	49	58	52	49	43	45	48	47	50	60	54	47	43	43	59	61	66	67	65	50	51		49.1	EDT
HOLLYWOOD	М	53	59	83	74	М	М	М	Μ	61	81	75	59	68	65	64	66	M	77	84	71	75	75	85	85	83	76	78	69	68		<u>72.2</u>	2400
GLEASON	35	43	38	48	46	36	М	М	М	50	56	53	51	48	46	50	51	53	51	59	50	45	48	63	61	69	67	65	51	52		51.2	EDT
RIDGE	51	56	60	85	70	65	65	55	54	62	80	73	59	69	67	62	68	76	73	85	71	52	77	87	88	83	77	79	73	64		69.4	2400
ZYLA	39	40	39	47	45	37	46	44	43	48	54	53	49	46	48	50	50	54	58	58	48	46	48	63	63	68	65	62	52	49		50.3	EDT
SMITHSBURG 1.5 SW	48	50	57	82	67	61	65	49	50	66	85	68	54	73	68	59	64	72	59	80	60	45	74	82	87	84	82	75	60	68		66.5	2400
HUTTO	35	32	36	41	37	33	40	40	40	47	50	51	46	38	43	46	42	44	44	46	41	40	42	60	57	61	67	68	50	44	<u> </u>	45.4	EDT
HAGERSTOWN 1E	47	50	56	82	67	62	64	50	49	64	85	68	54	70	66	60	64	71	58	81	61	45	72	81	85	84	81	76	61	65		66.0	2400
KEEFER	35	31	33	46	37	31	41	41	40	47	52	51	47	40	45	47	42	45	46	47	42	41	41	59	60	63	66	54	50	44		45.5	EDT
SMITHSBURG 3 NE	45	48	53	80	69	60	63	49	48	64	81	68	52	68	63	62	57	71	60	78	57	47	69	78	83	81	80	74	51	64		64.1	2400
VAUGHN	32	33	34	45	34	33	41	36	37	44	57	46	42	43	43	41	37	55	47	53	41	37	37	60	60	64	65	56	48	41		44.7	EDT
SALISBURY	48	54	57	80	69	59	70	56	59	68	78	76	63	70	67	66	64	78	75	85	70	51	75	85	85	83	82	83	73	64		69.8	2400
NWS WICOMICO CO APT	39	32	39	46	43	30	43	42	44	47	57	50	49	45	41	48	50	47	56	61	41	42	47	63	61	68	66	62	50	45		48.5	EST
WASH NATIONAL	50	52	60	85	72	64	69	51	51	63	84	72	59	71	65	63	67	74	68	86	65	50	70	85	83	83	80	77	70	68		68.6	2400
NWS ASOS	37	36	40	49	41	36	45	43	42	49	56	52	49	46	48	49	47	51	56	52	48	43	44	57	58	64	66	61	54	51	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	49.0	EST
WASH DULLES	50	51	59	85	71	64	70	51	50	66	85	70	57	70	67	63	69	76	68	86	64	49	73	85	86	84	82	78	66	66		68.7	2400
NWS ASOS	32	31	32	48	36	30	43	42	42	46	59	52	46	38	40	48	45	42	53	48	41	43	43	56	56	67	68	53	47	49	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	45.9	EST
STERLING 4 N	49	51	58	84	71	65	68	51	51	64	83	70	56	70	67	62	67	76	64	82	63	49	72	84	85	85	81	75	64	65		67.7	2400
SHAFFER	38	33	39	44	44	35	44	45	43	48	60	56	50	43	45	49	45	45	54	50	50	42	44	56	57	68	69	62	50	50	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	48.6	EDT
DAVIS 3 SE WV	32	29	31	56	73	32	54	62	49	64	76	76	49	38	62	61	50	50	66	64	63	52	53	69	68	80	74	73	55	45		56.9	0700
LESHER	23	23	27	27	32	24	24	39	39	44	45	49	37	29	30	39	28	28	47	47	31	31	33	53	53	56	56	51	40	33	<u> </u>	37.3	EDT

#### ACON MD / DE / DC APRIL 2011 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	l.	TOTAL	OBS TIME
BEAR 2 SW, DE	0.22	T	0.01	0.00	0.22	0.00	0.00	0.92	0.00	0.00	0.00	0.46	0.09	0.00	0.00	1.59	0.02	0.00	0.15	0.00	0.00	0.08	0.39	0.08	0.03	0.00	Т	0.11	Т	0.00		4.37	2400
GALLAHER																																0.0	EDT
MIDDLETOWN 6 N	0.23		0.01		0.34			0.77	0.01			0.48	0.07			1.55	0.02		0.12		0.01	0.07	0.29	0.09	0.03		0.23	0.22				4.54	2400
LEGATES																																	EDT
WILMINGTON , DE	0.20		0.03		0.23			0.78			Т	0.54	0.11	Т		1.65	Т		0.14			0.05	0.44	0.10	0.01		0.32	0.11	Т			4.71	2400
NWS NEW CASTLE CO APT																																0.0	EST
NEWARK AG FARM, DE	0.20		0.01		0.17			0.79				0.69	0.12			1.51	0.03		0.17			0.08	0.45	0.15	0.03		0.34					4.74	2400
U OF DE DEOS																																	EDT
TOWNSEND 4 W, DE	0.19	0.01	0.01		0.29			0.68	0.02			0.50	0.03			1.45	0.01		0.08			0.08	0.19	0.45	0.04		0.14	0.42				4.59	2400
U of D REC DEOS																																	EDT
GEORGETOWN, DE	0.03	0.01	0.11		0.40			0.29	0.01			0.15	0.01			0.95	Т					0.10	0.06	Т			Т	0.50				2.62	2400
NWS SUSSEX CO APT																																	EST
GEORGETOWN, DE	0.02		0.12		0.39			0.23	0.01			0.16				1.11	0.01					0.09	0.07					0.46				2.67	2400
U of D REC DEOS																																	EDT
HARBESON 8 S, DE	0.09	0.02	0.12		0.19			0.26	0.03			0.12	0.03			0.30	0.01					0.07	0.06					0.32				1.62	2400
U of D REC DEOS																																	EDT
REHOBOTH BEACH BWK	0.13		0.03	0.01	0.14			0.25	0.01			0.09	0.02			0.94	0.01					0.03	0.06					0.34				2.06	2400
U of D DEOS																																	EDT
FROSTBURG	Т	0.01	0.17	0.01	0.42	0.03		0.11	0.68	0.02		0.21	0.57	0.09		0.10	1.35	0.15		1.25			0.69	0.33	0.17		0.82	0.85		0.01		8.04	0700
LATTA	l T	0.3	-	0.01	0.12	T		0	0.00	0.02		0.2.	0.07	0.00		0.10	1.00	0.10		1.20			0.00	0.00	0		0.02	0.00		0.01		0.6	EDT
LAVALE	>			0.19	0.07	<u> </u>		0.59	Т		>	0.95	Т			1 19	0.05	Т	1.14			0.19	0.54	0.04		0.41	Т	0.48	Т			6.07	2400
MULLINS**	Ť	T	0.00	0.13	0.07			0.00			_	0.50				1.15	0.00	•	1.14			0.10	0.04	0.04		0.41	•	0.40	'			T.	EDT
PASADENA 2 N		_	0.05	0.01	በ 38			0 33	0.02			0.25	0.17			0.93			0.06			0.21	0 14	ი ვი	0.01		0.11	Λ 18	0 O1			3.46	2400
HANSON	0.14	0.07	0.00	0.01	0.50			0.55	0.02			0.23	0.17			0.55			0.00			0.21	0.14	0.55	0.01		0.11	0.10	0.01			0.0	EDT
LOTHIAN	0.15	0.35	0.01		0.48			0.39				0 13	0.14			1.21	0.01		0.03			0.37	0.22	1 31	0.29			0.48	0.01			5.58	2400
JUG BAY	0.10	0.00	0.01		0.40			0.00				0.10	0.17			1.21	0.01		0.00			0.07	0.22	1.01	0.23			0.40	0.01			0.0	EDT
BALTIMORE	0 14	0.04	0.01	Т	0.25			0.35				0.34	0.16			1.29			0.07			0.21	0 08	0.52	0.02		т	0.04				3.52	2400
NWS BWI APT	0.14	0.04	0.01	'	0.23			0.55				0.54	0.10			1.23			0.07			0.21	0.00	0.52	0.02		'	0.04				0.0	EST
LAUREL 2 E	n 10	0.05	0 03	Т	0.33			0.41			Т	0.39	0.26			0.86			0.06			0.35	0 08	0.20	0.02		т	0.09				3.41	2400
STOUDT	0.13	0.03	0.03	'	0.55			0.41			'	0.53	0.20			0.00			0.00			0.55	0.00	0.23	0.02		'	0.03				0.0	EST
REISTERSTOWN	0.25	0.04	0.05	0.02	0.66		Т	0.53	0.13			0.01	0.22			1 08	0.12		0.30	0.01			0.07	0.14	0.07		0.08	0.35				5.12	2100
MULLER	0.20	0.04	0.00	0.02	0.00		'	0.55	0.13			0.51	0.22			1.00	0.12		0.53	0.01			0.07	0.14	0.07		0.00	0.55				0.1	EDT
OWINGS MILLS 2SE	0.19		0.03		0.55			0.47	Т			0.30	0.21			1.42			0.31			0.15	0.15	0 11			0.25	0.55				4.78	2400
SHARROW	T	'	0.03		0.55			0.47	'			0.39	0.21			1.42			0.51			0.13	0.13	0.11			0.23	0.55				4.76 T	EDT
BALTIMORE 2SE		0.03	0.10		0.24			0.45				0.21	0.15			1.24			0.18			0.20	0.21	0.70	0.02		т	0.14				4.20	2400
MANFRE	0.14	0.03	0.10		0.24			0.45				0.51	0.15			1.24			0.10			0.20	0.21	0.79	0.02		'	0.14				0.0	EDT
BALT INNER HARBOR	0.14	0.03	0.10		0.25			0.44				0.21	0.15			1.24			0.18			0.17	0.21	0 01				0.12				4.15	2400
MD SCIENCE CENTER	0.14	0.03	0.10		0.25			0.44				0.31	0.15			1.24			0.10			0.17	U.Z I	0.01				0.12				0.0	EST
	0.27		0.04	1	0.41	1	1	0.58	<b> </b>			0 00	0.50	1		1.48	Т		0.50	<b> </b>	1	0.14	O 10	Т			0.26	2 10				7.36	2300
MANCHESTER 1SW CLOSE	3.2		0.04	1	0.41			0.58				0.02	0.50			1.48	'		0.50			U.14 T	0.18	'			0.26	2.18					
WESTMINSTER 4 SSE		0.02		0.04	0.65	<u> </u>	<u> </u>	0.50	0.00			0.05	0.50	<del>                                     </del>		0.60	0.67		0.40	0.15	<u> </u>		0.46	0.24	0.05			1 57				3.2	EDT 1800
HARTSOCK		0.03		0.04	0.65			0.52	0.02			0.85	0.50			0.60	0.07		0.40	0.15		0.08	0.16	0.21	0.05			1.57				6.82	
	0.8	0.01		0.00	T			0.44	0.40	_		0.70	0.01	-		4.00	0.01	-	0.04	0.40		0.07	0.40	0.00	-		-	0.00				0.8	EDT
MILLERS 4NE		0.01		0.02	0.51			0.44	0.16	Т		0.78	0.31			1.02	0.81	Т	0.34	0.12		0.07	0.16	0.30	Т		Т	2.38				7.78	1800
MILLER	2.0	Т	<u> </u>					<u> </u>				<u> </u>	<u> </u>																		<b></b>	2.0	EDT
BRYANS ROAD 2 ESE																																	2400
BRUMBACK	0.0-	0.05		0.0-	0.0-	0.0-		0.45	0.45			0.0-	0.00	0.0-			0.0=		-		ļ		0.00	0.45				0.55				201	EDT
EMMITSBURG 2 SE	0.27	0.06		0.02	0.25	0.07		0.10	0.48			0.07	0.63	0.05			2.37			0.75			0.29	0.43				0.55	0.55			6.94	0700
GLASS																																0.0	EDT

#### ACON MD / DE / DC APRIL 2011 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
LAUREL JHU / APL	0.13	0.07	_	0.01	0.54			0.35				0.35	0.24			1.02			0.08			0.27	0.09	0.47	0.09		T	0.21				3.92	2400
GIANNOLA	Т																													l	, ,	Т	EDT
NORBECK 1 SE	0.13	0.11	0.02		0.29			0.52				0.39	0.65			1.24	0.01		0.07			0.34	0.11	0.16	0.15		0.04	0.11		Ī		4.34	2200
BERGER																														ł	, ,	0.0	EDT
POTOMAC 4N	0.15	0.13	Т	0.03	0.35			0.36	0.03			0.50	0.69			1.53	0.05		0.06			0.46	0.15	0.13	0.10		0.26	0.25		i		5.23	2100
COHEN																														l		0.0	EDT
OLNEY 1 S	0.11	0.04	0.03		0.34			0.52				0.44	0.66			1.04		0.12				>	0.48	0.10	0.04		>	0.40		l		4.32	2400
GIANNOLA																						Т								l		Т	EDT
CLARKSBURG 2ENE	0.19	0.02	0.08		0.73			0.48				0.87	0.68			1.24	0.01	Т	0.35			0.31	0.21	0.64	0.01		0.31	0.55		l	, ,	6.68	2400
HOLDEN	0.1	Т																				Т								l		0.1	EST
MONTGOMERY VILLAGE	0.27	0.04	0.03					0.52			Т	0.55	0.67			1.02			0.14			0.36	0.14	0.15			0.20	0.32				4.41	2400
ROTH 1SW		Т																												l		Т	EDT
GLENMONT 1NNE	0.09	0.19	0.01	Т	0.46			0.44	Т			0.35	0.57			1.12			0.04			0.42	0.05	0.18			0.01	0.18		l		4.11	2400
ROSSEN	Т																													l		T	EST
BETHESDA	0.12	0.08	0.02		0.36			0.40	0.01			0.34	0.63			1.00	0.01		0.01			0.33	0.07	0.13	0.04		0.02	0.09		l	, ,	3.66	2400
SCAFIDE																														l			EDT
GAITHERSBURG 2WNW	0.17	0.06	0.01	Т	0.59			0.50	Т			0.77	0.64			1.26			0.13			0.33	0.11	0.28	0.05		0.49	0.40		l	, ,	5.79	2400
SHAW	`																													1		Т	EDT
FOREST GLEN	0.15	0.13	0.01		0.55			0.50				0.31	0.53			1.18	Т		0.05			0.37	0.09	0.27	0.01		0.01	0.32		l	, ,	4.48	2400
TERRY																																0.0	EDT
OXON HILL	0.09	0.13			0.59			0.44	0.01			0.10	0.32			0.85			0.03			0.31	0.17	0.86	0.05		1.39	0.34		l	, ,	5.68	2300
SMITH																																0.0	EDT
HOLLYWOOD	0.11		0.07	Т	0.04	0.14	0.01		0.43		0.01	0.01	0.20	0.03			1.16						0.28	0.02				0.51	0.52	0.01	, ,	3.55	0700
GLEASON																																0.0	EDT
RIDGE	0.06	0.03	0.02		0.49			0.64				1.03	0.06			0.75						0.10	0.06			0.01	0.07	0.40		l	, ,	3.72	2400
ZYLA																														<b>-</b>		0.0	EDT
SMITHSBURG 1.5 SW	0.09	0.03	0.16	0.10	0.54			0.65				0.89	0.33			1.85			1.12	0.01		0.15	0.37			0.07		3.28		l	, ,	9.64	2400
HUTTO	Т	Т																												<b></b>		T	EDT
HAGERSTOWN 1E		0.04	0.06	0.06	0.42			0.49				0.78	0.39			1.83	Т		0.92			0.14	0.44	Т		0.01		2.42	Т	l	, ,	8.07	2400
KEEFER	Т																															Т	EDT
SMITHSBURG 3 NE			0.02	0.07	0.55			0.54			Т	0.69	0.31			2.64	0.02		1.07			0.17	0.41					2.89		l	, ,	9.38	2400
VAUGHN									_													Т										Т	EDT
SALISBURY	0.01	0.12	0.03	0.01	0.11			0.25	Т			0.10	Т			0.47	Т					0.11	0.05				T	0.44		i l	, ,	1.70	2400
NWS WICOMICO CO APT		L	L	<u> </u>	L	<u> </u>	<u> </u>	<u> </u>			L_			<u> </u>	<u> </u>	<u> </u>			L			L								<b>—</b> Н		0.0	EST
WASH NATIONAL	0.08	0.04	Т		0.42			0.35	0.01		Т	0.19	0.31			0.60			0.01			0.36	0.05	0.74	Г		0.01	0.03		i l	, ,	3.20	2400
NWS ASOS	0.0=	0.0-		<b> </b>	0.0:	ļ		0.15	_		-	0.0-	0.00		<b> </b>	4.0.			0.00			0.45	0.0-	0.0:			4.0-	0.00		$\longmapsto$		0.0	EST
WASH DULLES	0.07	0.02	Т		0.31			0.42	Т		Т	0.69	0.30			1.24			0.02			0.40	0.08	0.01			1.33	0.32		i l	, ,	5.21	2400
NWS ASOS	0.15	0.00		_	0.15			0	0.01			4 4-		0 = :		0 - :			0.15			0.15	0.15	0.00				0.05		$\longmapsto$		0.0	EST
	0.12	0.06		Т	0.43			0.51	0.01			1.17		0.51		0.51			0.13			0.46	0.18	0.02			>	0.95		i l	, ,	5.06	2400
SHAFFER	0.4.	0.55	0.00	_	4.00	0.05		_	0.51			0.40	0.70	0.00		0.00	4.46	0.00	_	4.00		_	0.55	4.01	0.00		0.4-	4.05	$\vdash$	0.00		0.0	EDT
DAVIS 3 SE WV	-	0.55				0.35			0.51			0.43	0.79	0.06		0.03	1.16	0.02	Т	1.68		Т	0.57	1.01	0.20		0.17	1.35		0.02	, ,	10.99	0700
LESHER	2.6	6.3	10.8	Т	Т	2.9	<u> </u>	]					<u> </u>	<u> </u>	<u> </u>	]	0.7		]			]	<u> </u>		]	]	<u> </u>	]				23.3	EDT