



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

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

HOT AND DRY

June was one of the hottest June's in the region's history. **Greg Keefer** of **Hagerstown 1E**, where records date back to 1898, broke the old record set in 1899 and tied in 1943 by one degree. NWS Washington National Airport (DCA) recorded its warmest June, NWS Baltimore (BWI) its 2nd warmest and NWS Wilmington DE (ILG) its 3rd warmest. Along with the heat came dry conditions. Many stations reported less than 2 inches of rainfall. Less than one inch fell at some stations in Northern Delaware and North Central Maryland.

The month began warm and humid with temperatures ranging from the mid 80's to lower 90's. Scattered thunderstorms with varying rainfall amounts, mostly less than a quarter of an inch, occurred across the region during the first 6 days. Total amounts ranged from a Trace in portions of Northern Delaware and North Central Maryland to 3.75" at Frostburg. A severe thunderstorm with 1" hail occurred at **Millers 4 NE** on the evening of the 4th. See radar picture submitted by **Bobby Miller** on page 3.

The first of three "cool" periods occurred from the 7th to the 9th. Rain showers fell on the 9th when temperatures failed to rise out of the 60's at many locations. Rainfall amounts were generally less than a half inch. The heaviest amount reported was 0.66" by **Nate Mullins (Scott Lohr)** of **LaVale** and 0.62" by **Mac Hutto** of **Smithsburg 2 NE**.

Near 90 degree temperatures returned from the 12th to the 14th. The second "cool" period occurred on the 14th and 15th. Seasonal temperatures returned on the 15th. Showers and thunderstorms occurred again on the 16th. This has been a typical occurrence during the first half of the month. Most of these storms were light and with June's high sun angle and heat the moisture quickly evaporated stressing crops and vegetation.

The longest and hottest stretch of 90 degree plus temperatures started on the 19th and would not end till the 30th. During this stretch temperatures the 100 degree mark would be broken at the following ACON observer sites: **Baltimore 2 SE** (three days), **Pasadena 2N** (two days), and one day each at **Westminster 4 SSE**, and **Ridge**. Scattered thunderstorms occurred on the 22nd and 24th. Lightning caused two house fires on the 22nd in Charles County. See page 4 for an article provided by **Marty Brumback** of **Bryans Road 2 ESE**.

Scattered thunderstorms also occurred the 28th. Wilmington NWS reported a wind gust of 70 mph. **Gary Gallaher** of **Bear 2 SW DE** reported a peak wind gust of 49 MPH. **Kevin Shaw** of

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Baltimore 2 SE	102
Westminster 4 SSE	101
Ridge	100

MINIMUM TEMPERATURE

Davis 3 SE WV	37
Frostburg	44
Smithsburg 2 NE	45
Manchester 1 S	46

WARMEST AVG. TEMP.

Baltimore 2 SE	81.8
Ridge	79.5
Montgomery Village 1 SW	78.5

COLDEST AVG. TEMP.

Davis 3 SE WV	65.5
Frostburg	68.4
Millers 4 NE	72.8

MAXIMUM PRECIPITATION

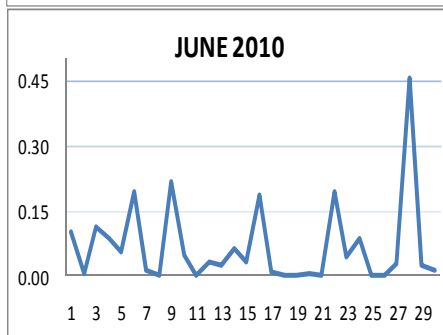
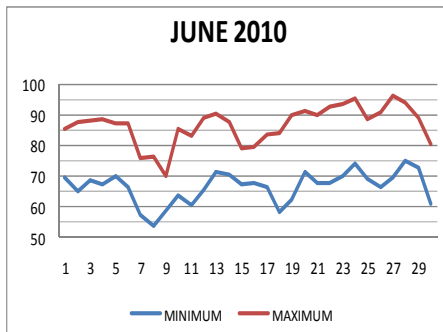
Frostburg	5.15
Davis 3 SE WV	3.97
Gaithersburg 2 WNW	3.48
Bethesda	3.47

MINIMUM PRECIPITATION

Owings Mills 2 SE	0.37
Middletown 6 N DE	0.92
Baltimore 2 SE	1.04

Gaithersburg 2 WNW reported a rainfall total of 1.44". Along with the 0.65 that fell on the 27th the two day total accounted for 60% of his monthly total.

The month ended on a sunny, much cooler day with dew points in the upper 40's and temperatures in the lower 80's.



ACON MD/DE Network

Daily average temperatures and precipitation based on observation times, not calendar days.

OBSERVER COMMENTS FOR JUNE 2010

Gary Gallaher of Bear 2 SW, DE

Dry, hot month. Fifth driest and tied 1973 for the warmest June. 13 days with max temp 90° or greater broke the old record of 11 set in 1991. Yard completely brown.

22nd - Thunderstorm with hail passed just to the north / east.

28th - AM minimum temperature 80°. Afternoon thunderstorm lowered temperature from 97° to 77°. PWG 49 MPH. Tree limbs down in neighborhood.

Nate Mullins of LaVale

73.7°, warmest June on record. Old record was 73.3° set in 1973. Dry month with a lack of significant thunderstorms or rainfall events. Everything seem to split and go north and/or south or dissipate when they crossed the Allegheny Front.

28th - All time June record high min temperature of 77°. Previous record was 75° set on June 26, 1948.

Jeff Stoudt of Laurel 2 E

22nd - Brief ++TSRA ~ 1900.

28th - +TSRA early afternoon, SHRA late evening.

Marty Sharrow of Owings Mills

7th - Sunny, breezy, pleasantly cooler.

9th - Cool with showers.

27th - Sun, very hot & humid.

Joe Manfre of Baltimore 2SE

1st - Cloudy, hot, humid, afternoon thundershower.

19th - Partly cloudy, hot, low humidity.

Ralph Hartsock of Westminster 4 SSE

Very dry and hot month.

9th - Rain and cool.

10th - Early shower, sunny and warmer.

23rd - Sunny, hot, dry. Grass needs water.

27th - Sunny, humid - blazing PM heat.

Bobby Miller of Millers 4 NE

4th - Three storms, 5PM, 8 PM & 8:15 to 8:30 PM. 1" hail 8:24PM to 8:26 PM. Largest hail since 6/15/1980.

10th - Ground fog before sunrise.

24th - Hot, windy

Ray Muller of Westminster City

8th - Sunny, pleasant. 51° at 6 AM.

27th - Very hot humid day. Temperature 96° at 4 PM.

Marty Brumback of Bryans Road 2 ESE

22nd - TRW+ w/CCCG LTG struck between 8:15 & 8:30 PM causing much small limb and tree damage. One tree down behind my house. PWG 39 from the SW just before 8:20 PM.

Eric Glass of Emmitsburg 2 SE

1st - Sunny, clear

25th - Not as humid.

26th - Low haze, sunny and warm.

Rich Giannola of JHU/APL

28th - +TSRA 2:00 - 2:30 PM. Maximum temperature at 1:33 PM and minimum temperature at 2:20 PM were separated by less than an hour.

Rob Cohen of Potomac 4 N

Warmest June on record. Previous warmest was 1994.

23rd, 24th - Daily record maximum temperature.

30th - Low humidity.

Rich Giannola of Olney 1 S

9th - SHRAs during day, ending by late afternoon = 0.13". SHRA in evening ending by 10:00 PM = 0.03".

22nd - TS began 7:30PM, +TSRA with gusty winds began 7:40PM ending by 7:55PM. Leaves and small twigs down.

Richard Holden of Clarksburg 2 ENE

Thunder on the 3rd, 5th, 12th, 22nd, 27th & 28th.

Stan Rossen of Glenmont 1 NNE

6th - Thunder first heard at 12:27PM EST but precip held off to almost 1:15PM. It quickly became heavy for a few minutes. The barometer rose from 29.52" at 1:06PM to 29.59" at 1:17PM and fell back down to 29.56" at 1:44PM.

Kevin Shaw of Gaithersburg 2 WNW

Warmest June on record. Monthly minimum temperature of 54° was the warmest monthly low temperature ever. The previous was 53° set in 1989 & 1995. Three daily record high along with six record high minimum temperatures set.

Joe Terry of Forest Glen

Warmest June in 16 year station history, making this the fourth month in a row with either the warmest or second warmest on record.

6th - Mid afternoon thunderstorm with some intense lightning, heavy rain and one good gust of wind but overall storm was of short duration.

27th - 99°, warmest so early in the season.

John Zyla of Ridge

13 days with 90 degree temperatures beat the old record of 10 set in 1999.

24th - 100° for only the second time in June and the first since July 25, 2005.

Max Hutto of Smithsburg 1.5 SW

9th - Cloudy, cool with several periods of rain.

Greg Keefer of Hagerstown 1 E

Hottest June on record with an average temperature of 76.0. Old record was 75.0 set in 1899 & 1943.

23rd - Tied record high of 95 set in 1899.

24th - Tied record high of 96 set in 1997 & 1966.

27th - Record high of 98 breaks old record 97 set 1966.

28th - Overnight low of 77 very rare in July and August but almost unheard of in June.

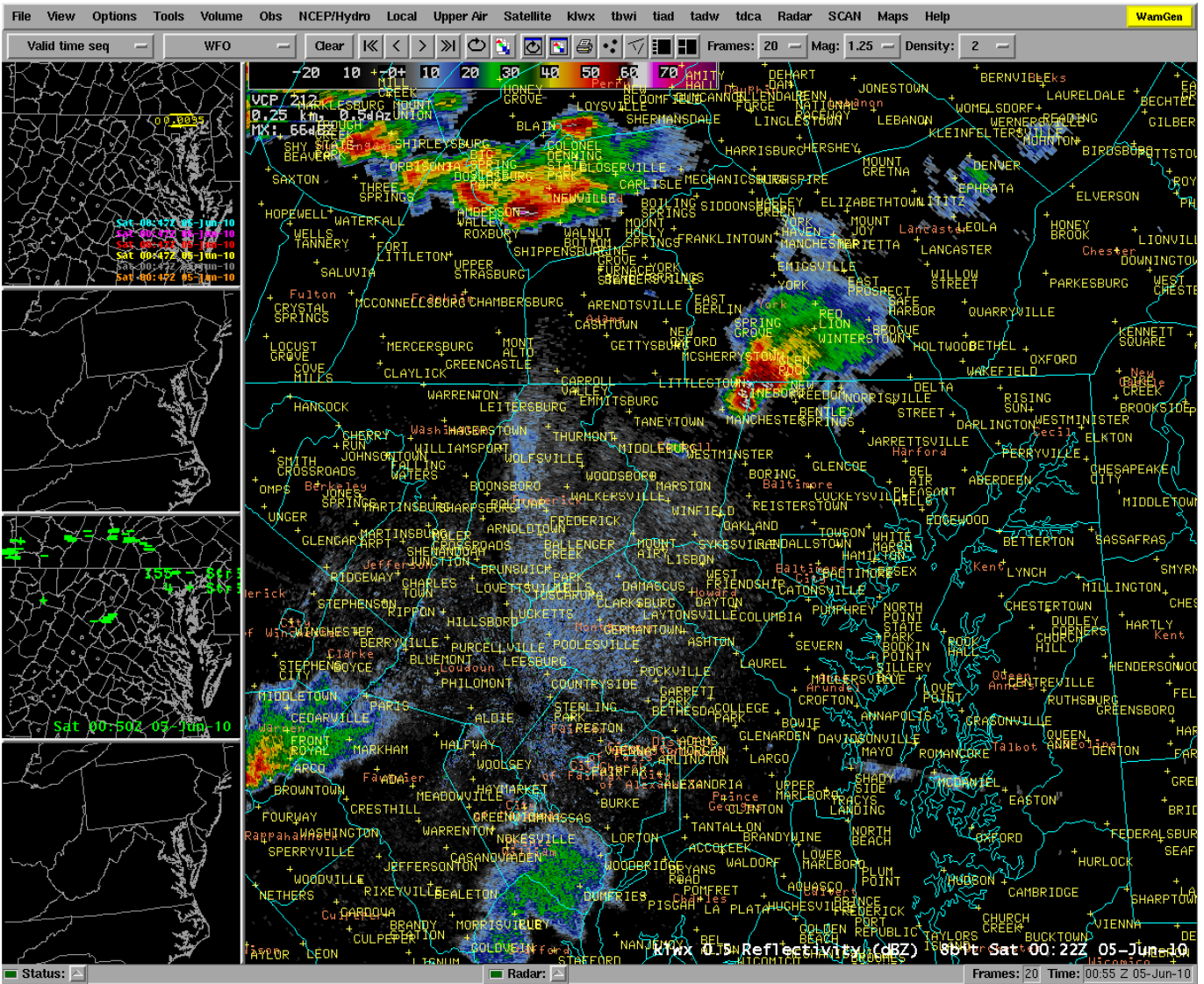
Jim Vaughn of Smithsburg 2 NE

Third warmest and fifth driest June. There were no PWG over 40 MPH which is actually rare in these here parts.

Lance Shaffer of Sterling 4 N VA

"Too dry and too much heat".

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.



Severe thunderstorm which dropped 1" hail on Millers 4 NE MD.

Time stamp of the radar is 00:22Z Saturday 05 June 2010



Partial rainbow June 28.
Submitted by Marty Brumback of Bryans Road 2 ESE



Brown yard as a result of dry, hot weather.
Submitted by Gary Gallaher of Bear 2 SW

Lightning strikes cause 2 house fires

■ Thousands without power at height of storm

By **NANCY BROMLEY McCONATY**
Staff writer

Heat, humidity and Mother Nature clashed Tuesday evening and the battle whipped up a thunderstorm that sparked two house fires and left more than 8,000 households in the dark for several hours in Charles County.

A powerful thunderstorm raged through the county between 8:15 and 9 p.m., bringing with it lightning and winds

that topped out at 60 mph in some locations, according to the National Weather Service in Sterling, Va. The wind toppled trees and slung power lines to the ground, particularly in the western section of Charles County.

Lightning strikes are being blamed for house fires on Biggs Farm Place in La Plata and Chicamuxen Road in Indian Head, according to 10th District Volunteer Fire Department Chief Wally Danielson. Calls for the house fires came in simultaneously to the Marbury-based fire department, he said.

The two-story, log cabin-style home

on Biggs Farm Place caught fire when lightning struck the corner of the house, Danielson said. The blaze quickly moved inside of the house and spread to the crawl space underneath the structure, he said.

Firefighters had to cut out a portion of the floor and go into the crawl space to extinguish the fire, which did not displace the family, said Danny Hudson, assistant chief for the 10th District VFD.

The Maryland State Fire Marshal's Office did not respond to either incident because the cause of the fires was

See **STORM**, Page A-11

Storm

Continued from Page A-1

immediately evident, he said.

Volunteers with the 10th District and La Plata fire departments responded to the call.

The blaze on Chicamuxen Road started in the basement and spread to the first floor after lightning struck the house, Hudson said, adding the family is displaced because of extensive damage to the structure.

Volunteers with the 10th

District, Marbury, Potomac Heights, Bryans Road, Nanjemoy and Waldorf fire departments responded to the call.

The storm also plunged 8,314 households in the dark in Charles County, said Thomas Dennison, spokesman for Southern Maryland Electric Cooperative in Hughesville.

Twelve distribution feeder lines in Southern Maryland, including eight in Charles County, were damaged during the storm, Dennison said, adding that 3,118 households in St. Mary's County and 3,428 in Calvert County

reported outages during the height of the storm.

"Anytime that we have that many feeders affected it's severe weather," he said. "It was a fast-moving storm, and it caused a great amount of damage. When we lose that amount of feeders the number of power outages really increases."

On Wednesday morning, about 200 households, mainly in the western section of Charles County, were still without power, Dennison said, adding that those outages were primarily in Nanjemoy, Marbury

and Indian Head.

"It was a violent storm, and unfortunately it caused extensive outages in our service area," he said.

The Charles County Sheriff's Office had numerous calls for downed power lines and toppled trees that

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stretched across roads, but there were no serious vehicular accidents, said Kristen Timko, spokeswoman.

Mother Nature may not be done with the area yet. With the heat index predicted to soar between 98 degrees and 104 degrees and a strong cold

front approaching, the NWS issued a severe thunderstorm watch for Thursday afternoon and evening. The storms could produce damaging wind, large hail and possibly tornadoes.

nmccnaty@somdnews.com

**Article provided by Marty Brumback of Bryans Road 2 ESE
Strong thunderstorms of Tuesday, June 22**