



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

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

NUMEROUS THUNDERSTORMS SOME WITH HAIL

June was an "active" weather month. Dense fog, high humidity, high temperatures, strong thunderstorms, damaging winds, hail, funnel cloud and smoke were all reported. Temperatures averaged above normal while precipitation was quite variable but overall averaged above normal. Over 7 inches of rain fell in Prince Georges, St. Marys Counties of Maryland and in the Western Maryland Mountains.

The severest storm of the month was reported by **Jim Vaughn of Smithsburg 2 NE**. On the 23rd around 8 PM a severe thunderstorm hit Jim's home. Jim wrote "Rainfall total of 1.16", 1.01" fell in 10 minutes...Neighbor measured 3/4" hail...completely covered the ground with an average of 1.2". I arrived home from the weather station at 1 AM, five hours later. The ground was still 20% covered. I took forty random hail stones and measured them. The average size was 1/2" with the largest hail stone measuring 1.2". A couple hundred acres of corn were stripped within three miles of my homestead in every direction. Way after the storm ended a freak lightning strike fried my main weather station and parts of my backup weather station."

Marty Sharrow of Owings Mills reported 11 thunder events but below average precipitation. Marty wrote: "I've noticed that many storms that are headed this way seem to lose steam once they cross over Parr's Ridge in Carroll County. Even though this geographic feature isn't as nearly as prominent as the Blue Ridge or Appalachians well to the west, it seems to me that it is significant enough at times to influence rainfall in the northwestern corner of Baltimore County." Link to info on Parr's Ridge is on page 2.

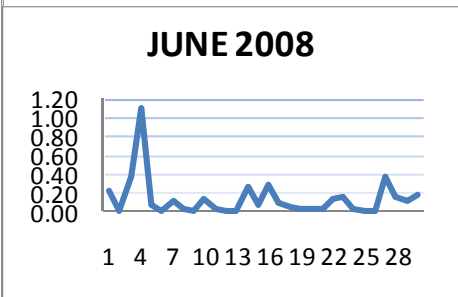
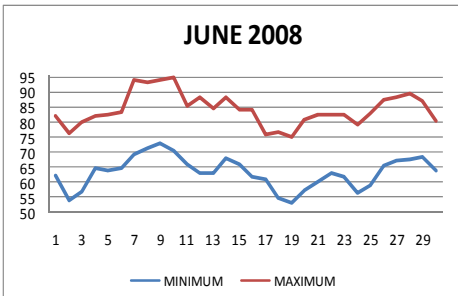
Thunderstorms on the 3rd and 4th dumped an average of 1 to 2 inches of rain. The heaviest rains fell in St Marys County where **John Zyla** of Ridge reported 3.43" and **Floyd Abell** of

Hollywood 3.34".

The first heat wave of the summer occurred from the 7th to the 10th. Mid 90's readings were common at many locations east of the Maryland Mountains. **Stan Rossen of Glenmont 1 NNE** set a new June maximum temperature record of 98° on the 10th. 100° was reported by **Dan Hanson of Pasadena 2N** on the 7th and **David Roth of Montgomery Village 1 SW** on the 10th.

Thunderstorms, some with hail around Washington DC, occurred the evenings of the 7th and 10th. Southerly winds brought smoke north from wild fires in North Carolina and Virginia on the 13th.

The 17th to the 20th saw refreshing cool temperatures along with low humidity. Minimum temperatures ranged from the upper 40's to mid 50's were the coolest of the month. The last 90° temperatures occurred on the 27th and 28th. A funnel cloud was sighted east of Smithsburg on the 28th.



ACON MD/DE Network

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

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Pasadena 2N	100
Mont. Village 1 SW	100
Georgetown DEOS, DE	99
Baltimore 2 SE	99

MINIMUM TEMPERATURE

Davis 3 SE, WV	42
Eagle Rock	44
Smithsburg 1.5 SW	45

WARMEST AVG. TEMP.

Baltimore 2 SE	78.7
Mont. Village 1 SW	77.2

COLDEST AVG. TEMP.

Davis 3 SE, WV	63.8
Frostburg	67.4
Eagle Rock	67.6

MAXIMUM PRECIPITATION

Davis 3 SE, WV	11.23
Ridge	9.82
Hollywood	8.23

MINIMUM PRECIPITATION

Owings Mills	1.39
Harbeson 8 S, DE	1.87



Rainbow 6/23 at Columbia MD
Picture by Kevin Shaw of Gaithersburg 2 WNW

OBSERVER COMMENTS FOR JUNE 2008

Gary Gallaher of Bear 2 SW, DE

Sunny month, only two cloudy days and no strong thunderstorms. From the 5th to the 30th rain only fell during 12 hourly periods. As a result of the drying ground periods of high humidity were limited during the last half of the month.

Nate Mullins of LaVale

3rd - Late afternoon brief heavy shower dropping 0.29" in 15 minutes.

13th - Very heavy, stationary thunderstorms just to the W of this station dropped 2" of rain. Only 0.06" fell at this station.

17th—19th - Three consecutive days temperatures failed to climb out of the 60's. 62° on the 17th unusually cool.

Jeff Stoudt of Laurel 2 E

Thunderstorms were rather frequent, but none brought prolonged downpours or severe weather. Rainfall exhibited a diminishing trend, which was welcome after a soggy May.

Marty Sharrow of Owings Mills

1st - Morning sun, afternoon clouds and showers.

7th - Morning fog, afternoon sun, hot and humid.

11th - Sparkling sunshine, drier, and warm.

27th - Very warm, humid, late afternoon storm.

Joe Manfre of Baltimore 2SE

10th - Sunny, evening and night light showers and thunderstorms.

22nd - Partly cloudy, hot, humid, a few sprinkles.

Ralph Hartssock of Westminster 4 SSE

4th - Tornado watch, heavy thunderstorms.

10th - Very hot, severe thunderstorm, hail, much tree damage.

Bobby Miller of Millers 4 NE

10 days with thunder.

10th - Thunderstorm—power out 6PM to 10PM

Ray Muller of Westminster City

7th - Dense fog

Marty Brumback of Bryans Road 2 ESE

10th - High thin cirrus most of the day - Dreadfully hot-humid.

11th - Beautiful mares tails and lower humidity.

24th - Clear and beautiful

Eric Glass of Emmitsburg 2 SE

19th - Clear, sunny, cool, bright

28th - Hazy

Rebecca Harvey of Eagle Rock

9 days with thunder.

Rich Giannola of JHU/APL

4th - Peak wind gust 51 MPH WNW @ 3:28 PM.

14th - High and low temps occurred 1 hr 9 minutes apart.

Rob Cohen of Potomac 4 N

13 days with thunder, a June record.

4th - Very heavy rain, strong gusts 3:30 PM. Second thunderstorm 6 PM.

10th - Record max temperature. Brief pea-size hail 8:15 PM.

14th - Gusty thunderstorm 3 PM.

Rich Giannola of Olney 1 S

7th - Morning fog burning off by 9 AM. Evening thunderstorm - Pea size hail 7:58-8:00 PM. Rainbow at 8:05 PM.

18th - Brief SHRA 5:35-5:40 PM with very large drops = trace. Maximum splash diameter of these large drops on slate patio was 2.5".

Stan Rossen of Glenmont 1 NNE

7th - Fog - Early morning visibility 3/8 mile.

9th - 97° ties June record high from 6/8/1984, 6/22/1988, and 6/26/2002.

10th - New June record high of 98°.

26th - Daily temperature readings began 6/26/1977

Kevin Shaw of Gaithersburg 2 WNW

Muggy hot period near the beginning of the month didn't break max temp records, but either tied or set several daily high min temp records. Precipitation during the month was fairly evenly distributed, keeping lawns green.

23rd - Sunny AM & early PM. Clouds increase afternoon and evening. Single and double rainbows in area.

Joe Terry of Forest Glen

14 thunderstorm days a new June record and tied August 2003 for the most. It was also the windiest June in station history (since 1994).

4th - Numerous thunderstorms early AM to late evening. 13 hour power outage starting at 1515.

7th - Good thunderstorm around 2100 with some close lightning. Impressive display SE afterwards, about one bright flash every 2 seconds.

10th - Five minutes of pea-sized hail around 2020.

Brian Smith of Oxon Hill

7th - Dense AM fog.

30th - Upper portion of a rainbow in virga at 1938

Floyd Abell of Hollywood

14th - Heavy rain, small hail. Strong gusty winds around 6:30 PM.

John Zyla of Ridge

14 days with thunderstorm.

Max Hutto of Smithsburg 1.5 SW

4th - PM thunderstorms that were damaging in southern Washington County.

14th - PM thunderstorms, power outage, very windy.

23rd - Overnight thunderstorm then light fog. PM nearby severe thunderstorms, hail, funnel cloud, breezy.

Greg Keefer of Hagerstown 1 E

7th - 95° tied record high set in 1999.

8th - 95° broke old record high of 94 set in 2002.

28th - Strong thunderstorm 7:30 - 8 PM with brief heavy rains, wind gusts to 42 MPH. Frequent sharp lightning. Some wind damage reported.

Jim Vaughn of Smithsburg 2 NE

23rd - Major hail storm. Wind gust of 56 MPH. Hail 3/4" diameter was 4" deep in places, seven inches under down spouts. Major tree and crop damage.

Link from Marty Sharrow for information about the Parr Ridge: Book by the Maryland Weather Service 1910.
http://books.google.com/books?id=JtQLAAAAYAAJ&pg=PA221&lpg=PA221&dq=Parr%27s+ridge+geography&source=web&ots=dSmQquVcl4&sig=fzoc5X9sEHn0Cm84B_IUw-XjDV4&hl=en&sa=X&oi=book_result&resnum=1&ct=result

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.