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

WARM, DRY MONTH ENDED WITH HEAVY TROPICAL RAINS

September's weather highlight was the heavy tropical rains which fell during the last five days. The heaviest rains of upwards of a foot plus fell in a north-south band along the western shore of the Chesapeake Bay. The following quote was taken from **Jeff Stoudt's Laurel 2E** report "The prospect of a dry September was washed away during the final five days when a quasi-stationary front over the eastern seaboard became a pipeline of tropical moisture all the way to the Caribbean. Waves moving northwards along the front brought episodes of very heavy rain. The last of these was the remnant low of Tropical Storm Nicole. As a result, this "dry" September finished much wetter than average." The greatest rainfall totals for the 29th & 30th reported by ACON observers were:

- 12.54" **John Zyla of Ridge**
 - 8.11" **Dan Hanson of Pasadena 2 N**
 - 5.68" **Brian Smith of Oxon Hill**
 - 5.29" **Kevin Shaw of Gaithersburg 2WNW**
 - 5.29" **Joe Manfre of Baltimore 2 SE**
- Gary Gallaher of Bear 2 SW DE** reported 5.72" on 9/30 & 10/1 AM. Storm total precipitation from the Sterling and Mt Holly radars are on page 3.

September was a dry month until the last 5 days. **David Legates of Middletown 6 N DE**, Delaware State Climatologist, mentioned that there was talk about issuing a drought watch for Delaware before the rains came. Temperatures averaged above normal for the seventh consecutive month.

The month began where August left off, very hot. Temperatures rose into the mid to upper 90's on the 1st and 2nd. After three days of pleasant temperatures with a few locations reporting minimum temperatures in the upper 40's, 90's returned briefly for the 7th and 8th.

Hurricane Earl moved north well off the coast brought only very light rain across the eastern areas on the 3rd.

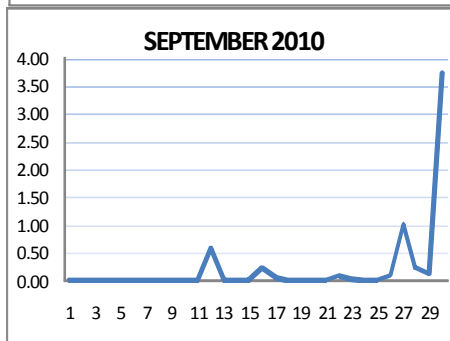
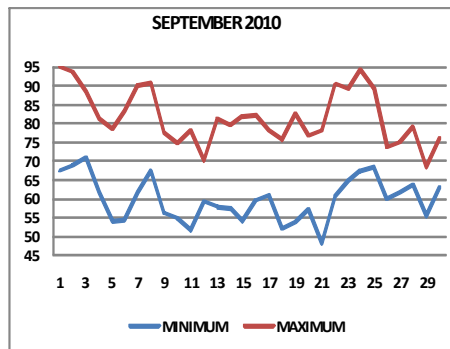
The first significant rains of the

month other fell on the 12th. Amounts ranged from a quarter of an inch to one inch. The maximum temperatures on the 12th generally were in the 60's, the coolest of the month.

Rain from showers and thunderstorms fell on the 16th and 17th. Temperatures fell to the mid 40's on the last day of summer making it the coolest temperatures of the month.

Autumn rolled in more like summer. Maximum temperatures ranged from the mid 80's to the mid 90's from the 22nd to the 25th. Minimums on the 24th and 25th were in the upper 60's to lower 70's.

Tropical moisture flowed north from the 26th to the 30th. Moisture from the remnants from Nichole brought heavy rains on the 29th to October 1st.



ACON MD/DE Network

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

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Baltimore 2 SE	99
Hagerstown 1 E	99
Smithsburg 2 NE	99
Bryans Road 2 ESE	98
Forest Glen	98

MINIMUM TEMPERATURE

Davis 3 SE WV	40
Millers 4 NE	42
Bear 2 SW DE	43
Emmitsburg 2 SE	43
Smithsburg 1.5 SW	43

WARMEST AVG. TEMP.

Baltimore 2 SE	75.1
Ridge	74.7
Oxon Hill	73.4

COLDEST AVG. TEMP.

Davis 3 SE WV	60.1
Frostburg	63.5
Emmitsburg 2 SE	67.4

MAXIMUM PRECIPITATION

Ridge	14.38
Pasadena 2 N	10.37
Baltimore 2 SE	7.93

MINIMUM PRECIPITATION

Frostburg	3.08
UofD DEOS Newark DE	3.49
Davis 3 SE WV	3.62

Weather Party Saturday, November 6th at the home of Herb Close of Manchester 1 SW MD 2PM till? Contact Herb if directions are needed.

OBSERVER COMMENTS FOR SEPTEMBER 2010

Gary Gallaher of Bear 2 SW, DE

Warm month - began hot and dry and ended mild and wet. Lack of rainfall severely stressed plants until tropical moisture dumped 7.22" of rain from the 26th to the early morning hours of October 1st.

16th - Brief afternoon thunderstorm with PWG of 51 W.

Greg Latta of Frostburg

Three observation days with thunder 12th, 17th, & 23rd.

Nate Mullins of LaVale

September was very warm with near record heat at times without any particularly cold readings.

2nd - 97° was one degree shy of the daily record but the hottest September reading in 56 years.

23rd - Record high min of 65° eclipsing 64° set in 2007.

30th - 3.14" of rain shattered the previous daily record of 1.34" set in 1959. It is the 4th heaviest rain day for September and the 11th heaviest rain day overall since records for this location commenced in 1948.

Jeff Stoudt of Laurel 2 E

September continued the streak of warmer than normal months and added many more days of summery heat or humidity with only a few short and modest interruptions to the extension of summer.

29th-30th - Near the west shores of the Bay rainfalls were double to triple of the ~4.25" that fell at this West County location.

Marty Sharrow of Owings Mills

1st - Hot & humid, hazy sun.

22nd - Thunderstorm 2035 - 2050 hours.

24th - Foggy start: sunny & very hot afternoon.

Joe Manfre of Baltimore 2SE

30th - Cloudy, mild, humid, heavy rain.

Ralph Hartsock of Westminster 4 SSE

5th - "Fall like," sunny, nice.

23rd - Hot as @#%#\$ again.

27th - Yes rain! Some heavy, a soaker

Bobby Miller of Millers 4 NE

20th - Dry FROPA, clear, 100% sun.

22nd - Big storms in late afternoon and evening - great light display. Branches down.

Eric Glass of Emmitsburg 2 SE

24th - Heavy fog.

30th - Steady to heavy rain.

Ron Berger of Norbeck 1 SE

Another dry month with ABOVE average precipitation like July and August. Through the 26th, there was only 1.09" with precipitation on only 5 days.

Rob Cohen of Potomac 4 N

14th - Dense morning fog.

22nd - Thundershowers late afternoon and evening.

30th - Heavy rain morning and again evening. 0.71" fell October 1st for a storm total of 4.53".

Rich Giannola of Olney 1 S

29th - 30th - RA began again in late evening with occasional +SHRA. Rain stopped in early of the 30th = 3.02", additional 0.48" by 9:50PM and another 0.23" by midnight.

Richard Holden of Clarksburg 2 ENE

June-August were the hottest months on record with an average temp of 76.7°. The 37 days with 90°+ were the most in a year eclipsing the old record of 35 days in 1999.

30th - Heavy flooding rains.

Stan Rossen of Glenmont 1 NNE

30th - 4.16" does not come close to the September daily or 24 hour record of 7.56" which fell on 9/5-6/1979 of which 7.46" fell on 9/5/1976 from Tropical Storm David.

Kevin Shaw of Gaithersburg 2 WNW

The average minimum temperature of 59.9° surpassed the old September record of 59.8° set in 2008.

2nd - Sunny, hot. High cirrus clouds from Earl afternoon and evening.

30th - Record daily precipitation of 5.20" is the second wettest daily amount for September only surpassed by the 5.41" which fell on 9/5/1979 during the passage of Tropical Storm David.

Joe Terry of Forest Glen

1st - 98° Hottest September day in 15 year station history.

12th - First significant rainfall in 3 1/2 weeks.

22nd - Rapidly developing thunderstorm during the evening. Impressive in-cloud lightning display east after storms departure.

30th - Continuous moderate to heavy rain all AM and into early afternoon (3.05"). After a 4 hour lull, the rain resumed at 1800 with more moderate to heavy rain during the evening (1.22").

Brian Smith of Oxon Hill

30th - Tropical rains 0000-1300 & 1700-2400.

John Zyla of Ridge

12.92" of rain which fell in 40 hours from 9:15 AM Wednesday 9/29 to 1:00 AM Friday 10/1 broke the storm total of 11.11" from hurricane Floyd in September 1999. Monthly total of 14.38" is the highest monthly total which broke the previous record of 12.90" for September 1999.

Max Hutto of Smithsburg 1.5 SW

6th - Labor day cool AM, breezy.

13th - AM dense fog.

22nd - Nearby thunderstorms but none here.

Greg Keefer of Hagerstown 1 E

1st - Sunny, very hot, 98°, & very low humidity.

7th - Sunny, breezy, hot 94°. Very dry air humidity down to 13%, dew point down to 31°.

24th - Tied record of 97° set in 1902

Jim Vaughn of Smithsburg 2 NE

2nd - 99° broke the daily record of 98° set in 1953 and tied the all-time September temperature set 9/10/1953..

Lance Shaffer of Sterling 4 N VA

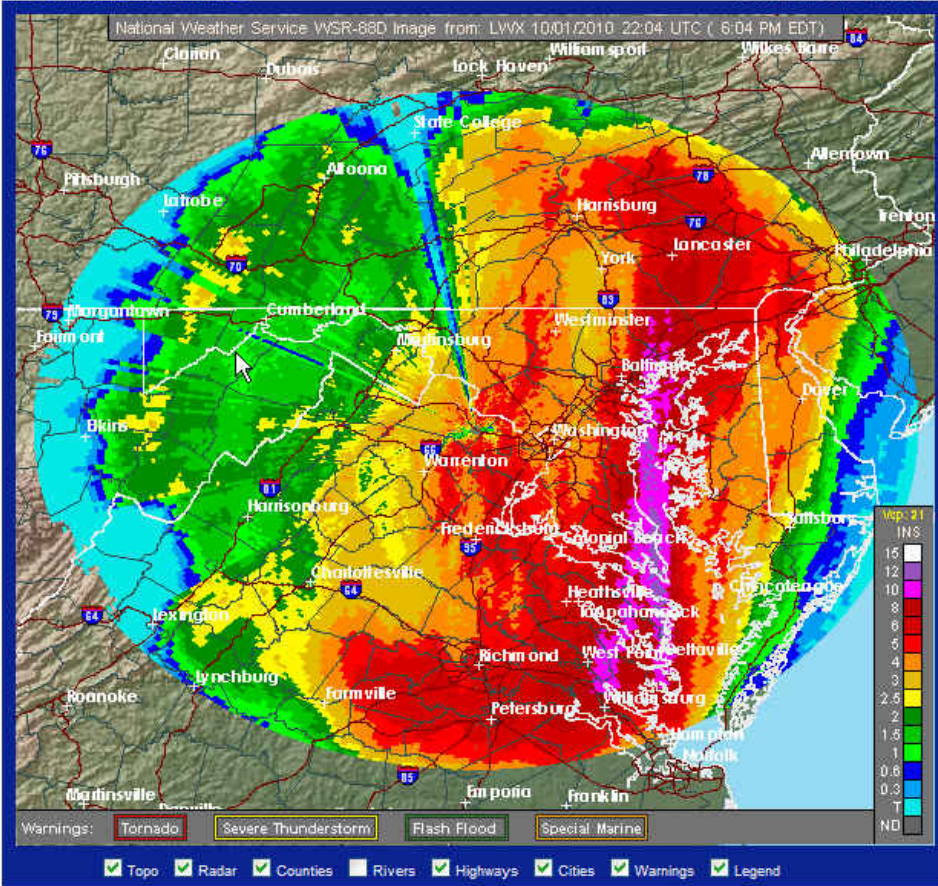
13th - AM fog.

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.

Storm Total Precipitation

Radar Precip Est From 08:20 AM EDT Wed Sep 29 2010
to 06:04 PM EDT Fri Oct 01 2010

NWS Baltimore, MD / Washington, DC



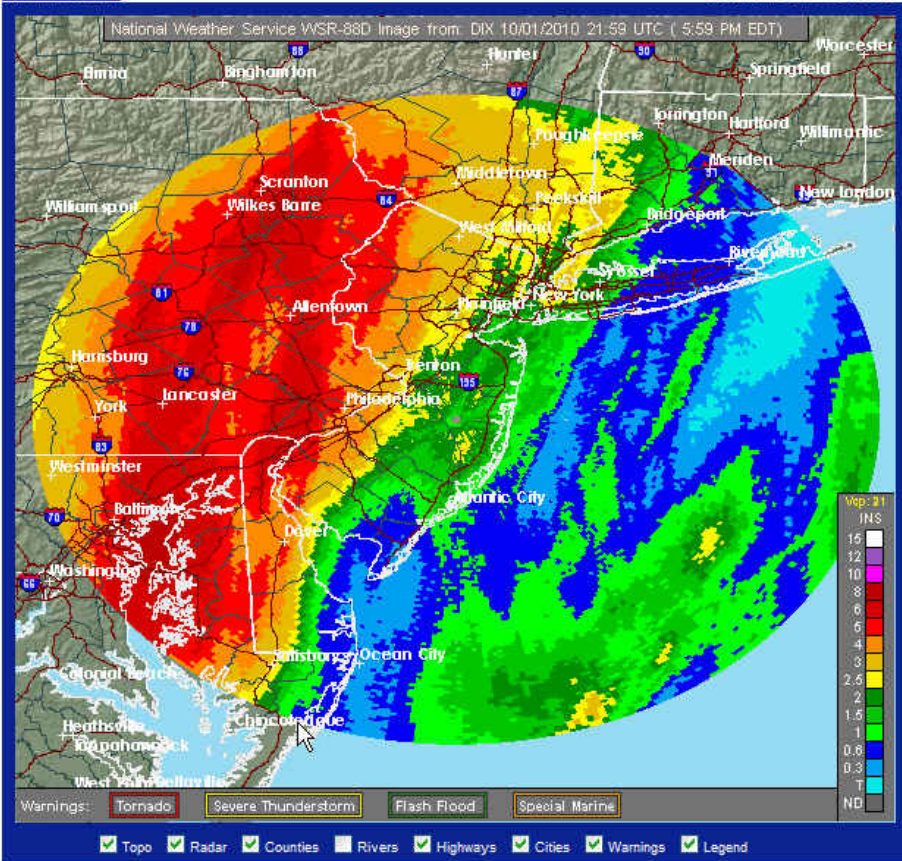
Sterling Radar
Estimated Storm
Total Precipitation.

Time frame:
08:20AM 9/29 to
06:04PM 10/01

Storm Total Precipitation

Radar Precip Est From 10:49 PM EDT Tue Sep 28 2010
to 05:59 PM EDT Fri Oct 01 2010

NWS Mt. Holly, NJ



Mt Holly Radar
Estimated Storm
Total Precipitation.

Time frame:
10:49PM 9/28 to
05:59PM 10/01