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

ABOVE NORMAL TEMPERATURES GENERALLY DRY BUT A FEW WET SPOTS

June 2011 was another warm, dry summer month similar to 2010. By comparing data from ACON members in DE, MD, and DC areas for 2010 and 2011 June's 2011 temperatures averaged 1.0 degrees cooler and precipitation wise it was 0.06" wetter.

The heat from Memorial Day weekend lasted into June and broke on the 2nd. Mid to upper 90's degree temperatures were common on the 1st. **Joe Manfre** of **Baltimore 2 SE** reported 101°, **Ralph Hartsock** of **Westminster 4 SSE** 99°, and **Dan Hanson** of **Pasadena 2 N** 98°. Record high temperature were set at the NWS stations at Dulles, Washington, and Baltimore.

Pleasant cooler temperatures followed the heat on the 2nd and remained through the 6th. The coolest temperatures of the month occurred on the 4th at the majority of stations. The coolest temperatures were observed by **Dave Leshner** of **Davis 3 SE WV** 40°, **Greg Latta** of **Frostburg** 43° and **DEOS** stations at **Townsend 4 W DE** and **Harbeson 8 S DE** which both reported 46°.

The heat began to return on the 7th and peaked on the 8th and 9th when readings hit 100 degrees at few locations. **Jug Bay Wetlands** in **Lothian** reported 100° on the 8th and 101° on the 9th. Other 100° temperatures were observed by the following ACON observers: **Jim Vaughn** of **Smithsburg 3 NE** 100° on the 8th and on the 9th by **Joe Manfre** of **Baltimore 2 SE** 103°, **Dan Hanson** of **Pasadena 2 N** 102°, and **DEOS Harbeson 8 S** 100°. Record maximum temperatures for the month of June were set for the following stations during this period of extreme heat: **Gaithersburg 2 WNW**, **Forest Glen**, and **Glenmont 1 NNE**. See Observer Notes for details.

Thunderstorms brought daily rainfall amounts of over an inch on the 11th by **Herb Close** of **Manchester 1 SW** 1.27",

and on the 12th by **Bobby Miller** of **Millers 4 NE** 1.12". **Wes Gleason** of **Hollywood 3 ENE** reported over an inch from severe thunderstorms on the afternoons of the 11th and 12th. See Observer Notes for more details. The heaviest daily rainfall recorded by **Dave Leshner** of **Davis 3 SE WV** (3.08" on the 11th).

The two F-0 tornadoes which occurred in Belcamp and Street, Harford County MD, on the 14th caused tree damage.

Numerous showers and thunder-showers brought mostly light rains from the 16th to the 24th. Most of the daily amounts were less than half an inch. Over one inch plus amounts were reported by the following ACON observers: **Wes Gleason** of **Hollywood 3 ENE** 1.57" (17th), **John Zyla** of **Ridge**

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Baltimore 2 SE	103
Pasadena 2 N	102

MINIMUM TEMPERATURE

Davis 3 SE WV	40
Frostburg	43
DEOS Townsend 4 W DE	46
DEOS Harbeson 8 S DE	46

WARMEST AVG. TEMP.

Baltimore 2 SE	80.9
Ridge	77.0

COLDEST AVG. TEMP.

Davis 3 SE WV	63.3
Frostburg	65.6
LaVale	70.9

MAXIMUM PRECIPITATION

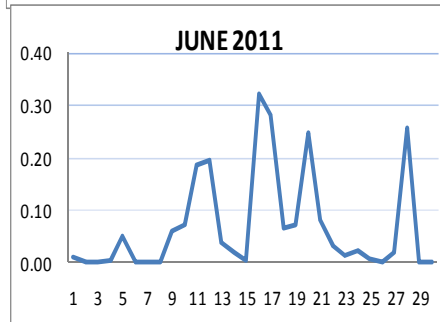
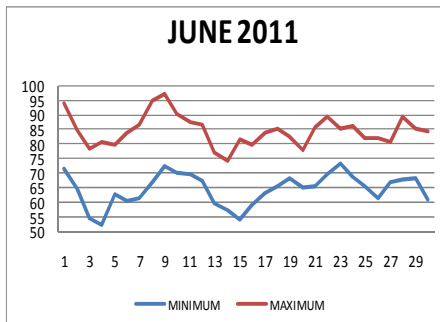
Davis 3 SE WV	9.32
Ridge	5.97
Hollywood 3 ENE	5.49

MINIMUM PRECIPITATION

DEOS Rehoboth Beach	0.96
Laurel JHU/APL	1.01

1.53" (19th) & 1.83" (20th), **Mac Hutto** of **Smithsburg 1.5 SW** 1.08" (16th) and **Dave Leshner** of **Davis 3 SE WV** 1.31" (20th) and 2.32" (20th). The last 1" plus amounts fell in New Castle County Delaware on the 28th. **Gary Gal-laher** of **Bear DE** observed 1.38" and **DEOS Newark AG Farm DE** 1.77".

After the 9th maximum temperatures were generally in the 80's. 90 degree temperatures were rare. The only 90 degree temperatures occurred on the 22nd, 23rd, 28th, and 29th. The month ended sunny with pleasant temperatures and humidity.



ACON MD/DE Network

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

OBSERVER COMMENTS FOR JUNE 2011

Gary Gallaher of Bear 2 SW, DE

Warm temperatures with above normal precipitation. After the 9th there was only one 90° day. The first 10 days were the driest.

9th - Daily record high of 96°

11th - Two thunderstorms brought welcome rains.

28th - Thunderstorm rains brought temporary relief to plants which were showing moisture stress.

Greg Latta of Frostburg

Six days with thunder.

Nate Mullins of LaVale

Above normal temperatures. Despite many days with measurable precipitation, most amounts were light and came from mostly small or brief showers and thunderstorms. Average minimum temperature of 61.2° is the second highest on record behind the record of 64.3° set last year.

28th - Thunderstorm with pea size hail.

Jeff Stoudt of Laurel 2 E

Above normal temperatures which were interrupted only by a few brief and moderate cool-downs and frequent but mostly spotty showers and thunderstorms.

Marty Sharrow of Owings Mills

Temperatures averaged 3.8° above normal. Precipitation was 2.1 inches below normal. Many lawns and fields are starting to show signs of both heat and drought related stress. The ground is very hard.

27th - Hazy sun, hot and humid.

28th - Brilliant sunshine, drier, but warm.

Joe Manfre of Baltimore 2SE

9th - Partly cloudy, very hot, humid, evening thunderstorm with high winds.

30th - Partly cloudy, hot, low humidity.

Ralph Hartsock of Westminster 4 SSE

3rd - Cool start, sunny and nice.

Bobby Miller of Millers 4 NE

Not much action in June, especially after the 17th!

11th - Hazy, evening (after obs time) thunderstorm 0.66"

12th - Afternoon thunderstorm 0.44"

28th - AM mist, fog & haze, PM sun, few TCu/Cb.

Ray Muller of Westminster City

Another very dry month with way above normal temperatures.

Rich Giannola of JHU/APL

Maximum barometric pressure 30.21" on the 3rd.

Minimum barometric pressure 29.72" on the 24th.

Ron Berger of Norbeck 1 SE

1.07" Driest June in 17 years of records.

Rob Cohen of Potomac 4 N

1st, 8th, & 9th - Record maximum temperature each day.

Rich Giannola of Olney 1 S

Driest May & June (3.20") since I began keeping records in 1987. Driest June since 1988 when 0.73" fell.

17th - TS began 4:10 PM, TSRA 4:33-4:40 PM = 0.03" with the sun visible throughout.

Richard Holden of Clarksburg 2 ENE

Seven days with thunder: 4th, 9th, 12th, 16th, 17th, 18th, and 21st.

8th - Obs time temperature (2400 hrs) 79°

9th - AM minimum temperature 76°.

Stan Rossen of Glenmont 1 NNE

9th - Warmest June temperature 99°. Old record maximum temperature 98° set 6/10/2008.

13th - Warmest June day - Average temperature 86.0°. Old record was 84.5°.

23rd - Min temp 75° ties June record set 6/28/2010.

Kevin Shaw of Gaithersburg 2 WNW

The arid conditions were the headline for the month. My 1.08" set a new June record minimum surpassing the 1.09" set in 1988. The anemic amount of 0.30" that fell on the 18th was the least amount for a wettest June day for any year in 33 years of records.

8th - 96° tied June's maximum temperature.

23rd - 74° min tied 6/30/1991 for the warmest June minimum temp.

Joe Terry of Forest Glen

8th - 99° new June record maximum temperature.

16th - First significant rain since late May. Moderate evening t'stm with a rainfall rate of up to 0.28" in 5 minutes.

28th - Second evening thunderstorm with very heavy rain at 1945. 0.34" fell in 5 minutes.

Wes Gleason of Hollywood 3 ENE

11th - Around 5 PM 1.16" of rain fell in about 40 minutes with wind gusts near 50 MPH and sustained winds of 28 MPH for 15 minutes.

12th - Around 3 PM 1.30" of rain fell in about 25 minutes. Penny size hail fell for 15 minutes. East winds 30 to 50 MPH. Numerous trees uprooted, numerous branches down up to 3 inches and lots of leaves down and loss of power.

John Zyla of Ridge

No rain for 12 days between May 23rd & June 5th.

19th - Heavy rain from 6:52AM - 9:30 AM 1.53"

20th - Heavy rain from 3:42 AM - 11:55 AM 1.83"

Max Hutto of Smithsburg 1.5 SW

8th - Mostly sunny, hot, humid, breezy.

11th - Overnight and PM thunderstorms.

16th - AM shower, warm, windy, PM thunderstorm with heavy rain.

Greg Keefer of Hagerstown 1 E

8th - Tied record maximum temperature of 95° set in 2008. The heat index peaked at 106°.

9th - Hazy hot and humid. Nearby thunderstorms during the evening produced some thunder and lightning but no rain fell here. Also had some gusty winds from storms to 31 mph and a little drop in temperature for some relief from heat.

Jim Vaughn of Smithsburg 2 NE

Near record dryness, 1.08". 4th driest June. Record is 0.91" set in 1988.

8th - Daily record high of 100° tied the second hottest June temperature. Record is 101° set 6/15/1994.

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.