



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

HUMID CONDITIONS - NUMEROUS THUNDER-STORMS WITH RECORD PRECIPITATION AT SOME STATIONS BETWEEN THE BAY AND MOUNTAINS.

July 2005 went into the record books as a humid, wet month. Numerous thunderstorms, some strong to severe, rolled across the region dropping heavy rains at many but not all locations.

Two tropical systems, Tropical Storm Cindy which made landfall on the Mississippi River Delta of Louisiana and Hurricane Dennis which made landfall on the western Florida Panhandle affected our weather. Cindy's remnants became a low pressure center on a stationary cold front and moved across southern portions of Maryland and Delaware. Dennis's remnants, which moved into the southern Ohio River Valley and dissipated, brought tropical moisture which became fuel for thunderstorms.

Cindy's rains were generally in the 2 to 4 inch range on the 7th and 8th. The heaviest, 5.63", fell at Salisbury Wicomico Co Airport. The heaviest rains observed by ACON observers fell in Carroll County. **Al Kreinik of Parkton 5SW** recorded 4.46", **Ray Muller of Westminster City** 4.00", **Bobby Miller of Millers 4NE** 3.84", **Greg Klein of Westminster 5SSE** 3.74", **Herb Close of Manchester 1SW** 3.72" and **Ralph Hartsock of Westminster 4SSE** 3.54".

Rains from moisture associated with the remnants of Dennis were lighter. Amounts ranged from less than an inch to over 4 inches. **Bobby Miller of Millers 4 NE** measured 4.26" from the 14th to 17th. Other heavy amounts reported were

3.04" by **Joe Manfre of Baltimore 2 SE**, 2.79" by **Jeff Stoudt of Laurel 2 E**, 2.58" by **Stan Rossen of Glenmont 1 NNE** and 2.08" by **Rob Cohen of Potomac 4N**.

Dennis's remnants brought oppressive tropical humidity into the region. Minimum temperatures failed to drop below 70 from the 13th to the 20th at most locations east of the Mountains.

Numerous thunderstorms, some with heavy flooding rains, occurred from the 5th to 27th. Pea size hail was reported by **Joe Terry of Forest Glen** as severe damaging thunderstorms moved across portion of the DC metropolitan area early on the 23rd. **Manuel Farfan of Frederick 4N** reported that 1.32" fell in 12 minutes the evening of the 5th. Severe thunderstorms moved north through the Frederick / Cumberland region mid afternoon of the 14th leaving behind creek, and underpass flooding and power outages. **Nate Mullins** observers **Charles Orlick** and **David Drewery of LaVale** reported 2 inches fell between 3 & 4 PM. Another severe thunderstorm moved through Carroll County shortly before midnight of the 16th. **Bobby Miller of Millers 4NE** observed 2.6 inches in one hour causing flash flooding.

A line of strong thunderstorms moved across the region ahead of a cold front on the 27th. **Joe Terry of Forest Glen** reported 1" of rain in 15 minutes. **Gary Gallaher of Bear 2SW DE** reported a 50 MPH

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE

Jug Bay Wetlands	101
Ridge	100
Hollywood	100

MINIMUM TEMPERATURE

Eagle Rock	52
Davis 3 SE WV	53
Frostburg	55

WARMEST AVG. TEMP.

Baltimore 2 SE	82.2
Hollywood	80.3

COLDEST AVG. TEMP.

Davis 3 SE WV	67.9
Eagle Rock	70.7
Frostburg	71.0

MAXIMUM PRECIPITATION

Millers 4 NE	12.69
Frederick 4 N	9.80
Forest Glen	9.12

MINIMUM PRECIPITATION

Jug Bay Wetlands	2.97
Hollywood	3.06
Frostburg	3.83

wind gust.

The hottest temperatures since August 2002 were observed this month. The century mark was broken in Southeastern Maryland. **Karyn Molines of Jug Bay Wetlands** observed 101, while **Floyd Abell of Hollywood** and **John Zyla of Ridge**, both St Marys County observers, recorded 100 degrees.

OBSERVER COMMENTS FOR JULY 2005

Gary Gallaher of Bear 2 SW, DE

1st - Dense fog at sunrise

27th - Strong thunderstorm with heavy rain and a 50 MPH wind gust. Some scattered tree damage.

Greg Latta of Frostburg

Thunder was observed on 10 days this month.

Nate Mullins of LaVale

Warmest July since 1999. Very dry after the 17th.

13th - 2.20" rain second heaviest July daily rain (since 1992). Over 3" fell in Cumberland causing flooding of roads and basements. Two transformers at a substation were struck by lightning knocking out power to 2,500 customers.

Jeff Stoudt of Laurel 2 E

Thunderstorms were common with many direct hits on this neighborhood. In some events, areas close by got little rain while getting drenched here. The result was a July total that beat last July's impressive total which was also over 8 inches.

Al Kreinik of Parkton 5 SW

8th - Heavy rain due to "Cindy". Some roads washed out. Low part of property under water.

Marty Sharrow of Owings Mills

15th - Very humid; lots of clouds, some sun

26th - Hazy sun, hot & humid

28th - Decreasing cloudiness; less humid, cooler.

Joe Manfre of Baltimore 2SE

26th & 27th - Partly cloudy, very hot, very humid.

Herb Close of Manchester 1 SW

Records set this month: Wettest July 8.95" - Old record was 8.09" set in 1995; Daily rainfall for July of 3.35" set on the 8th.

6th - Heavy thunderstorm after 11PM obs. Most of the 2.03" recorded on the 7th fell between 11PM & midnight of the 6th.

Ralph Hartsock of Westminster 4 SSE

16th - Mid day heavy thunderstorms. very humid

22nd - Sunny & hot. Overnight storms nearby.

25th - Heavy AM storms.

Bobby Miller of Millers 4 NE

Wettest month on record (records date back to Aug. 1981) with 12.69". Old wettest month was 9/87 when 10.86" fell. Thunder occurred on 12 days.

5th - Thunderstorm with heavy rain 1:00 - 1:30 PM. More heavy rain 11PM - Midnight but not as much thunder.

6th - Heavy rain continued from the 5th.

16th - Severe thunderstorm-11PM vivid lightning, sharp thunder, 2.6" of rain fell in one hour, 11:15PM to 12:15AM 7/17. More gravel roads washouts, flash flooding, streams over banks.

Manuel Farfan of Frederick 4 N

5th - Very heavy rain with strong thunder around 9 PM. 1.32" of rain fell in only 12 minutes.

14th - Strong thunder and heavy rain late this morning ending around 2 PM. Again, local flooding in creeks and overpasses.

25th—27th - Hazy, hot and very humid. Heat index 107 each day.

Rebecca Harvey of Eagle Rock

Thunder reported on 11 days.

Rob Cohen of Potomac 4 N

Wettest July on record.

23rd - Thunder 1AM with possible hail.

Rich Giannola of Olney 1 S

18th - Rainbow observed at 6:40 PM.

Stan Rossen of Glenmont 1 NNE

Wettest July in 29 years of records here with 8.60". Old record was 7.27" set in 2004. Three of the four (4) wettest Julys occurred in the past three (3) years.

7th - 2.59" tied the daily record for July set on 7/29/2004

23rd - 1.30" of rain fell in 30 minutes between 0014 and 0043 hours.

Kevin Shaw of Gaithersburg 2 WNW

July was a wet, humid, hot month with little respite to the "steam bath" conditions. Minimum temperatures averaged 3.3 degrees above normal while maximum temperatures only 0.3 degrees above. It was the third wettest July in 26 years.

8th - 2.26" set a daily precipitation record.

Joe Terry of Forest Glen

Wettest July since station inception.

12th - Hottest day since 8/22/2002.

15th - Extremely close lightning discharge damages several instruments including automated station in mid-afternoon thunderstorm. 1.02" fell.

23rd - Early AM near severe thunderstorm. Lightning flash every second, per size hail, and very heavy rain. Magnificent lightning display south afterwards. Hail occurred from 0130 to 0135.

27th - Strong late afternoon and early evening thunderstorm produced 1" of rain in about 15 minutes. Power out for 17 hours.

Brian Smith of Oxon Hill

22nd - Dry thunderstorm SE 1750 - 1820 moving SE

John Zyla of Ridge

Highest average low (72.3) for July in station history.

10 thunderstorms - all but one didn't drop much rain.

28th - 81 degrees warmest overnight low in station history.

29th - First 100 degree reading since 8/1/1999

Max Hutto of Smithsburg 1.5 SW

15th - AM fog, very warm, humid, mid day thunderstorms / heavy rain & breezy.

28th - Mostly sunny, less humid, cooler, breezy.

Greg Keefer of Hagerstown 1 E

6th - A small but drenching thunderstorm 9:30 - 10:00 PM dropped a very quick 0.76" of rain. Wind gusted to 28 mph.

15th—18th - Hot, hazy with very oppressive humidity.

27th - Heat index averaged 102 this afternoon. Intense thunderstorm between 4:30 & 5:00 PM with wind gusts to 33 MPH and sharp frequent lightning. Main part of storm was to south and east.

Jim Vaughn of Smithsburg 2 NE

July was the tied for the 4th hottest July on record. It started off and ended up dry but somehow in the middle it rained just enough to be one of the wettest (5th) Julys on record.

16th - Minimum of 76 set a daily record and tied for the second warmest July minimum temperature and the third highest for any month.

Lance Shaffer of Sterling 4 N VA

3rd - 64 degrees - Cool start to the day

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.