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

FLASH FLOOD IN CARROLL COUNTY

Above normal temperatures along with summer type humidity which began the last week of July persisted throughout most all of the month. Precipitation, which mainly fell as a result of thunderstorms, varied throughout the region. Scattered 6 inch plus amounts fell east of Washington County.

Two tropical storms moved north off the coast, Hurricane Bill on the 22nd and Tropical Storm Danny on the 29th. These two storms did not directly bring any rain, the rain that fell was as a result of stalled frontal systems nearby.

The first 8 days generally saw maximum temperatures range from 80 to 85 across the northern portion and mid to upper 80's in the southern portion. Thunderstorms dropped over an inch of rain at isolated locations on the 1st and 2nd. The heaviest reported was 1.52" by Gary Gallaheer of Bear 2 SW DE, 1.36" by David Legates of Middletown 6 N, and 1.34" by Jim Vaughn of Smithsburg 2 NE.

Early morning showers and thundershowers brought generally less than a ¼" of rain on the 6th. Temperatures on the 6th remained below 80. The next day (7th) the temperatures failed to reach 80. The next time this happened would be the 28th. Strong thunderstorms on the 9th brought damaging winds of over 45 MPH and rains of over an inch to New Castle County DE.

The hottest temperatures of the month at most stations occurred on the 9th and 10th. The hottest temperature reported by ACON observers was 98 by Joe Manfre of Baltimore 2 SE, and 96 by both Dan Hanson of Pasadena 2 N and Joe Terry of Forest Glen.

Widely isolated storms occurred on the 10th. Greg Keefer of Hagerstown 1 E reported 1.50", when 0.75" fell in 15 minutes and Dan Hanson of Pasadena 2 N 1.20", when 0.93" fell in 30 minutes. Nate Mullins of LaVale reported that 1.26" from a heavy PM thunderstorm fell on the 12th. This was 60% of LaVale's monthly rainfall.

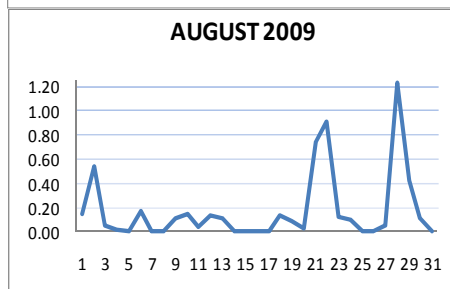
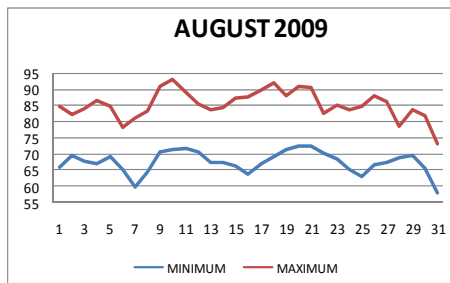
From the 15th to the 21st maxi-

imum temperatures ranged from the mid 80's to the lower 90's. The hottest day was the 18th. Joe Terry of Forest Glen recorded 97.

Heavy thunderstorms on the 21st & 22nd brought 3" plus to parts of the region. The heaviest rains fell NW of Washington DC where Rob Cohen of Potomac 4 N reported 4.65", David Roth of Montgomery Village 1 SW 3.70", and Richard Holden of Clarksburg 2 ENE 3.28".

The final round of heavy thunderstorms occurred on the 28th and 29th. Rainfall amounts of over 6" fell in Carroll County resulted in flash flooding on the Gunpowder River. Herb Close of Manchester 1 SW reported 6.55" on the 28th which was 78% of his months total. Bobby Miller of Millers 4 NE reported 6.46" by 11PM of the 28th. For more details about this event see Observers Comments Page and Herb's attached report.

The following link from Youtube shows the flooding:
<http://www.youtube.com/watch?v=dRx0TLcrHcg>



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	98
Forest Glen	97
Pasadena 2 N	96

MINIMUM TEMPERATURE

Eagle Rock	42
Davis 3 SE WV	44
Frostburg	49

WARMEST AVG. TEMP.

Baltimore 2 SE	80.1
Hollywood	78.6
Ridge	78.3

COLDEST AVG. TEMP.

Davis 3 SE WV	65.2
Eagle Rock	68.8
Frostburg	69.3

MAXIMUM PRECIPITATION

Millers 4 NE	10.02
Manchester 1 SW	8.44
Middletown 6 N DE	8.29

MINIMUM PRECIPITATION

LaVale	2.12
Frostburg	2.41
Eagle Rock	2.57

The coolest, most pleasant temperatures occurred on the 31st. Temperatures failed to rise out of the 70's and then dropped into the 50's during the evening.

NEW ACON MEMBER

David Legates, Delaware State Climatologist, has joined us. His station ID is Middletown 6N DE. He is located 6 miles north of Middletown DE just south of the C&D canal near Summit. **Welcome David!**

OBSERVER COMMENTS FOR AUGUST 2009

Gary Gallaher of Bear 2 SW, DE

Five days with >1 inch or rain tied record for August set in 1967. Temperature did not fall below 60 till 11PM on the 31st. Nine days with thunder.

Nate Mullins of LaVale

10th - Unusually warm low of 75.

12th - Strong slow moving thunderstorms with heavy downpours (1.26") between 2:30 - 3:30 PM.

Jeff Stoudt of Laurel 2 E

1st - Surprise isolated +TSRA 1600 - 1700.

28th - +TSRA 0015- 0045. Occasional -RA during daytime.

Marty Sharrow of Owings Mills

The month as a whole turned out to be seasonably warm. The month was quite dry except for a torrential cluster of thunderstorms on the 29th. These storms triggered flash flooding along with power outages and downed trees.

10th - Sunny, hot & humid with late evening storms.

18th - Partly sunny & humid with late day storms.

28th - Heavy storms early, overcast & humid.

Joe Manfre of Baltimore 2SE

10th - Partly cloudy, hot, humid. Severe thunderstorm around 9:15 PM.

21st - Partly cloudy hot, humid with afternoon and evening showers and thunderstorms.

Herb Close of Manchester 1 SW

8.44" - Record wet August

28th - Thunderstorms with torrential rain and flash flooding.

Set a new all-time 24 hour rainfall record of 6.55".

Ralph Hartsock of Westminster 4 SSE

21st - Very humid, heavy storms early PM, more storms late

22nd - More heavy showers and storms.

28th - Overnight storms, flooding.

31st - Much cooler.

Bobby Miller of Millers 4 NE

10th - First 90 degree day of the year.

17th - AM heavy dew, PM patchy dense fog.

28th - This was the first time in station history that a single thunderstorm dumped over 3 inches of rain. Flash flooding on the Gunpowder River during the evening. 1.83" fell by 8 AM. 6.46" fell by 11 PM. Fisher Porter rain gauge rainfall amounts: 2.6" fell in the morning and mid afternoon and 3.9" fell in the evening.

1.2" fell in 15 minutes (station record - 22 yrs of F/P data)

2.5" fell in 1 hour (station record - 22 yrs of F/P data)

3.7" fell in 2 hours (station record ??)

Ray Muller of Westminster City

28th - Very heavy thunderstorm, street flooding.

29th - Thunderstorms continue with very heavy rain, wind gusts observed to over 20 knots from the west.

Eric Glass of Emmitsburg 2 SE

15th, 16th, 25th, 26th - Early light, low ground fog.

Rebecca Harvey of Eagle Rock

1st & 12th - Thunder

Rob Cohen of Potomac 4 N

21st - 2.97" precip. thru 10:30 PM: 1.56" afternoon, 1.39" evening.

22nd - 1.68" precip.: 1.20" overnight, 0.48" afternoon.

Rich Giannola of Olney 1 S

21st -22nd - Mid afternoon +TSRA on 21st = 0.43", TS from NW began 7PM. TSRA 7:30-10:30PM = 1.36" more. TS11:00 PM. TSRA began 11:30 PM into morning on 22nd stopping before 8:00 AM = 0.41" more. TSRA - 4:00 PM into evening = 0.49" more.

Stan Rossen of Glenmont 1 NNE

1st,2nd,10th,11th,18th,21st,22nd,27th,28th - Thunder

Kevin Shaw of Gaithersburg 2 WNW

88% (4.15") of the months precipitation fell during the last third of the month.

2nd - AM rain, clearing PM - drying out but still humid.

20th - Obnoxiously hot and humid—no rain relief as predicted.

Joe Terry of Forest Glen

18th - Hottest day of the year. After afternoon showers and thunderstorms the dew point rose to an oppressive 78 and stayed there all evening.

21st - 93° by 2 PM before a thunderstorm outflow boundary dropped the temp. from 93 to 77 in only 30 minutes.

Brian Smith of Oxon Hill

1st - Double rainbow.

21st & 30th - Left leg of a rainbow.

28th - Violent, but now severe +TSRA 1120-1250, 2.26".

Floyd Abell of Hollywood

22nd - Afternoon thunderstorm with heavy rain.

John Zyla of Ridge

2nd - 4 thunderstorms 12:15 PM - 10:50 PM.

4th - Rain 6AM - 4 PM.

Max Hutto of Smithsburg 1.5 SW

2nd - AM thunderstorms & showers, heavy at times.

11th - Continued hazy, not as hot, humid, & breezy.

28th - AM & PM thunderstorms with heavy downpours.

Greg Keefer of Hagerstown 1 E

6th warmest August on record. Record 77.3 set in 1995.

2nd - Morning thunderstorms. Strong wind and damage reported in southern and eastern Washington County.

9th - Hazy, hot, humid. Heat index peaked near 100 for the first time this summer.

21st - Overnight low 77°.

31st - Fantastic day, much cooler with low humidity.

Jim Vaughn of Smithsburg 2 NE

Summer 2009 average temperature of 71.7°third coolest on record. Coolest 71.1 set in 1976.

2nd - 1.34" set a new daily record. Old 0.72" set in 1994.

28th - 1.96" set a new daily record. Old 0.85" set in 1986.

Lance Shaffer of Sterling 4 N VA

31st - Awesome nice cool weather.

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.

Flooding Rains Hit Parts of North Central Maryland in One – Two Punch.

By Herb Close, Jr.

Part I

Heavy Rains and Flooding Hit Parts of SE Carroll, SW Baltimore, and SE Harford Counties late Thursday Night and Early Friday Morning with Reports of 2 – 7 inches Rain. August 27-28, 2009.

A synopsis provided by Ray Muller for Thursday, August 27, 2009.

High Pressure is off the North Carolina coast. A stationary front is across southern Pennsylvania through Ohio to central Indiana. The stationary front is producing a SE flow over the area.

The synopsis for Friday, August 28, 2009 by Ray Muller.

There is an upper level trough over the northern Gulf of Mexico. A warm front is running NW to SE from Pennsylvania to Delaware. There is a surface low over northern Indiana and a cold front SSW to western Tennessee. This warm front can cause overrunning.

The synopsis for Saturday, August 29, 2009 by Ray Muller.

A stationary front runs from eastern Indiana across to New York. A cold front runs from eastern Ohio to central Kentucky to central Tennessee.

Forecasts from the media indicated a stalled frontal boundary over central Maryland Thursday night. This frontal boundary is to then move northward Friday as a warm front.

Heavy, intense thunderstorms developed along this stalled frontal boundary over southern, SE, and east central Carroll County and trained into SW and central Baltimore County. Throughout the night, it appeared on radar that the heavy thunderstorms were just sitting over SE and east central Carroll County including my parents located at Finksburg 2NW. There was frequent intense thunder and lightning and heavy downpours. Thunderstorms were also popping up in parts of Baltimore and Harford Counties. Heavy rains also developed over the Aberdeen area in Harford County and just sat there.

Ralph Hartsock a weather observer who lives between Westminster, Gamber, and Finksburg, Maryland, said that the thunderstorms started 9pm – 9:30pm Thursday night and ended during the early morning hours of Friday. Ralph said there was just one thunderstorm after another all night long! The thunder and lightning very intense! He said "That was a scary night!!!" At 2:15am, the lightning strikes were very close with a very bright light and immediate loud crack. Ralph said numerous chimneys got struck that night on Deer Park. Ralph had a total rainfall of 3.24" as of 7pm, but most of the rain fell overnight late Thursday and early morning Friday. Hardly any rain fell Friday evening. That rainfall missed him.

When I got home at Manchester 1SW at 10:20pm Thursday night, I could see a flash of lightning to the S/SW and a very light sprinkle began here. At Finksburg 2NW, which is 10 miles to the south, a thunderstorm was in progress along with a downpour of rain.

By 11:00pm, there was occasional sheet lightning and thunder to SSE/S/SW/W/WSW. It was warm and humid with occasional sprinkles during the past 45 minutes. My white table and grill lid on the deck were mostly wet. Meanwhile at Finksburg 2NW, thunderstorms with downpours continued.

Between 11:15pm – 11:20pm, I could see on WBAL TV Ch 11 Radar that there were scattered thunderstorms in North Central Maryland now. Radar showed red for heavy rain and thunderstorm over SE Carroll County & East Central Carroll County at my parent's home at Finksburg 2NW.

Between 11:25pm – 11:30pm, radar still showed a thunderstorm over SE/E Central Carroll County, and now expanding northward toward Hampstead Maryland. The thunderstorm over SE Carroll County appeared to be just sitting there. The thunder and lightning was becoming more frequent and intense. I could hear the frequent thunder to the south and SSW. I was very tired so I sat down in my easychair in the living room for a few minutes. I quickly fell asleep.

Suddenly, I woke up, I looked at the clock, and I saw it was around 2:20am and even though I had just slept for nearly 3 hours, I could still hear frequent sharp thunder going on to the south. I quickly checked the 24 hr radar on Ch 9.2 from Wash-

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ington DC and I could see that thunderstorms were still over SE and East Central Carroll County including my parent's house at Finksburg 2NW. I saw that a Flood Warning was issued for Carroll County until 4:10am.

At 2:23am, the radar showed the heavy rains over SE Carroll County weakening to Mod-light rain. There were also heavy rains & thunderstorms over Harford County. Those rains weakened some also at 2:23am.

Between 2:25am – 2:28am, I could still hear occasional to frequent strong thunder with bright lightning to the S/SSW. I then went to bed.

At 5:30am, there was still some occasional thunder and lightning around. On radar, thunderstorms were across North Central Carroll County and Central Frederick County.

I later checked with my parents on how conditions at Finksburg 2NW were and they reported to me that they had heavy thunderstorms with heavy downpours all night long. The thunderstorms had been training. There was ponding in the back yard and garden along with intense thunder and lightning all night. Some additional showers occurred later that morning. Their total rainfall was 2.97" or just under 3" rainfall. Only light rain and sprinkles would fall that Friday evening at Finksburg 2NW with only an additional 0.02" rainfall during the "Part II" rainfall event.

Another 3" rainfall report came to me from Robert Rickell for a spot near the Rt. 97 and Rt. 32 intersection at Bullocks. This spot is about 5 miles west of my parents at Finksburg 2NW.

Between 5:33am and 5:45am WBAL TV Ch 11 reported that 2" – 3" rain fell in the southern one third of Carroll County and SW Baltimore County overnight. As much as 3" – 6" rain fell in parts of Harford County due to a stalled front over south central Maryland. There was a Flood Warning for Harford County until 7am Friday. Very heavy rains were falling in the Aberdeen area of Harford County.

B.G.E reported 6400 were without power this morning.
There was flooding at Ruxton Road in Towson, Md.

WMAR TV Ch 2 reported flooding in parts of Baltimore County including the Pikesville and Owings Mills areas.

Other preliminary local storm reports from the NWS web site.

0105 am EDT Fri Aug 28 2009
Flash Flood at 1 ESE Reisterstown, Baltimore County, Maryland

0105 am EDT Fri Aug 28 2009
Flash Flood at Reisterstown, Baltimore County, Maryland.
Vehicle stranded in 4 feet of water along Franklin Road near Reisterstown Road.

1245 am EDT Fri Aug 28 2009
Flash Flood at 3 NW Sykesville, Carroll County, Maryland.
Report of a basement flooded and flooding on White Rock Rd.

0145 am EDT Fri Aug 28 2009
Flash Flood at Belcamp, Harford County, Maryland.
Water was flowing over roadway. Intersection of US 40 and Route 543.

0130 am EDT Fri Aug 28 2009
Flash Flood at Aberdeen, Harford County, Maryland.
Intersection of US 40 and Route 7 flooded. 3 people rescued and 2 cars pulled from the water.

0215 am EDT Fri Aug 2009
Flash Flood at Abingdon, Harford County, Maryland.
Rt 7 near Abingdon Road closed due to high water.

0135 am EDT Fri Aug 2009
Flash Flood at 3 SW Aberdeen, Harford County, Maryland.
Rt 159 in vicinity of Cranberry Rd closed due to swift water over roadway.

At 5:40am, Manchester 1SW has overcast, cloudy skies, cool, damp conditions with light fog. Thunder & lightning (some strong & sharp) just to the SW. Very light rain & sprinkles. I missed almost all the rain here at Manchester. Only a few brief showers,

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but lots of thunder and lightning just to the south. As of 5:40 am, only 0.30" rain fell here so far.

However, between 5:50am – 5:55am, the weather changes here at Manchester. Intense thunder & lightning strikes just to SW/W with moderate showers.

At 5:55am, Thunderstorm with heavy rain and some fog here at Manchester 1SW. WMAR TV Ch 2 radar showed a heavy thunderstorm over northern Carroll County and lightning strikes in NE Carroll County including the Manchester area.

Between 6am – 6:20am at Manchester 1SW, heavy rain, downpours with occasional thunder & lightning to SW/S/SE/E.

At 6:20am, the heavy rains end to light rain. Rain slacks up.

On WMAR CH2 at 6:33am, a Flash Flood Watch was shown for north Central & Central Maryland and the Washington, D.C. area for today.

A Flash Flood Warning was in affect for Harford County.

Between 6:45am – 6:50am, Moderate to heavy rains returned to Manchester 1SW.

At 6:51am, a sharp lightning strike just to the SW close by.
Moderate rain.

Between 6:52am – 6:55am, heavy rain & Downpour.

Between 7:00am – 7:05am, very heavy torrential downpour!!!
Rainfall estimated 1.03" for Manchester 1SW at 7am.

At 7:10am, cloudy, very heavy rain with occasional thunder.

Around 7:15am rain slacks up and ends by around 7:20am. Estimated rainfall 1 ¼" at Manchester 1SW. I now have to go to work.

My parents at Finksburg 2NW reported some mod-heavy showers and a downpour around 1:30pm.

At Bobby Millers station at Millers 4NE, Maryland located in the NE corner of Carroll County, reported 1.92" rainfall at 8AM Friday morning and it was still raining.

A total of 2.5" rain fell in the morning at Millers 4NE.

Then between 2pm – 3pm Friday afternoon, another downpour occurred at Millers 4NE. Bob said 0.42" rain fell in just 5 minutes.

Bob said he had 0.57" in the afternoon,
0.30" in 1 hr. ending 3pm and
0.27" in 1 hr. ending 4pm.

No rain fell at Millers 4NE between 4pm – 6pm Friday evening.

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Part II

Record Heavy Rains and Flooding hit NE Carroll County, NW Baltimore County, Md., and SW York Co, Pa. Friday Evening on August 28, 2009. Reports of 4”to 10” Rainfall. Worst Flooding seen by some since Hurricane Agnes.

Synopsis from the NWS early Friday afternoon indicated a boundary over the area will slowly lift northward through tonight. The NWS also said that copious amounts of tropical moisture will move northward into the area associated with an upper low originating from the southeastern United States. A cold front will then cross the region Saturday night and Sunday.

The NWS said that, "Current analysis shows a trough of low pressure over the CWA while an upper-level low continues to move through the southeastern CONUS. Another upper-level low is developing over the Great Lakes while Tropical Storm Danny continues to move northward off the mid-Atlantic coast."

"A southwest flow at the low and mid-levels of the atmosphere has allowed for plenty of tropical moisture to move into the region. A low and mid-level trough axis can be seen over the Tennessee Valley this evening. This trough axis is in between the upper-level low over the Great Lakes and the upper-level low over the southeastern CONUS. As this trough axis passes through the region overnight...This will allow for more showers and T-Storms to develop. Given the abundant moisture in place...Locally heavy rain will continue to be a threat overnight. Will continue with the Flash Flood Watch for the Baltimore and Washington DC Metropolitan areas where Flash Flood Guidance Remains low."

The same stationary front or boundary that caused heavy flooding rains in SE Carroll County, SW Baltimore County, and SE Harford County early Friday morning with 2" to over 7" rain is about to strike again with even more flooding rains. This time the flooding rains will hit NE Carroll County, NW Baltimore County, Maryland and SW York County, Pennsylvania. The boundary during the day Friday drifted northward as a warm front and was over the Mason/Dixon Line Friday evening setting the stage for part II of this rainfall event.

A weather observer and friend of mine, Tony Anuszewski, who lives halfway between Manchester and Lineboro just off Rt. 86 or Lineboro Road said he heard thunder just before the rain started around 5pm to 5:30pm. After the rain started, no more thunder, just very heavy continuous downpour for 4 – 5 hours all evening.

I was at my parent's house earlier that evening watching the weather channel. On local radar between 5pm – 6pm, I saw scattered showers in north central Maryland with an eastward moving line of very heavy rain running north to south over Adams County, Pennsylvania and northern Frederick County, Maryland.

At around 6pm, Friday evening, my sister Sherry reported a heavy downpour at her home NW of Taneytown and just SSE of Harney, Maryland. The line of heavy rain was over NW Carroll County and SE Adams County.

At my parent's house at Finksburg 2NW, it started to sprinkle and light rain at 6:11pm. It had been cloudy and overcast all day. As of 6:11pm, 2.97" of rain has fallen at Finksburg 2NW. Most of this rain fell late Thursday night and early Friday morning.

For the rest of the evening, only 0.02" will fall at Finksburg 2NW in light rain, drizzle, and sprinkles.

As the line of heavy rain continued to move eastward across northern Carroll County and SW York County, the line in Maryland slowed down, but the line in Pa. continued a little faster. Then as the line reached NE Carroll Co., and south central York Co., the line stopped and stalled. The line was now running SW to NE from Westminster to Millers and into York Co. Pa. Individual cells of very heavy rain began to develop and redevelop over the north and northeast of Westminster in central Carroll County and move northeast. The very heavy rain kept training SW to NE all evening over NE Carroll County. The ground was already saturated from heavy downpours earlier that day and this would only make the situation worse.

I drove home from my parents at Finksburg and as I arrived in Westminster, I could see this very dark ominous band of clouds just to the west, northwest, north, and northeast of Westminster along with scattered low hanging scud clouds. Behind the dark clouds appeared to be a lighter sheet of very heavy rain. Light to moderate showers began as I got on Rt. 27 north from Westminster to Manchester. Around 7:45pm just a couple miles before Albert Rill Rd., as I drove by Syndersburg Rd. on Rt. 27 N, the visibility suddenly became near zero in torrential rainfall. There were several cars ahead of me and behind me. We all slowed down and kept a safe distance from each other. One car ahead of me pulled off to sit out the rain. My wipers were running as fast as they could go and I could just barely see to drive but I was almost home so I kept going. As I started up Albert Rill Rd. to the hill where I live I could see a stream of water rushing down the edge of the road washing down stones along the way. As I

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drove to the top of the ridge, I could see some ponding in some of the yards. After I got to the top of the hill, the rain slacks off to moderate – heavy rain around 7:50 pm. I could see that some of the stone in my driveway washed out with 9" gutters.

Between 8:10pm to 8:30pm moderate-heavy rain becomes heavy rain at Manchester 1SW.

Between 8:30pm to 8:50pm heavy downpours.

At 8:55pm Moderate rain. Rain slacks up.

Between 8pm - 9pm, I had 2 ¼" rainfall in 1 hr.

At 9:02pm Moderate rain. I measured 6 ¼ " rain in big tube of the 4 inch rain gage.

Between 9:10pm to 9:30pm Moderate to light rain. Rain slacks up.

At 9:30pm, steady light rain.

A Flood Warning is issued for Carroll County by the NWS.

At 10:00pm cloudy, rain has stopped.

I set a new 24 hr record rainfall of 6.55" (Length of record: 20yrs and 6 months.)

I also set a new August monthly rainfall record of 8.44"

Around 10pm, the fire siren blew from Manchester VFD. I turned on my scanner and it sounded like a water rescue in progress. There was a water rescue near Lineboro, Md. It took four fire companies over an hour to rescue a man from his truck when it got swept down stream. The man ignored road blocks however and should never have tried to cross the road. Police noticed that the man was drunk and arrested him.

My supervisor at my full time job, Bob, lives by the Maryland/Pennsylvania line just on the Pennsylvania side a couple miles west of Lineboro. He lives close to the flooded area and he told me that he kept hearing all these sirens time after time during the evening and up to past Midnight. He heard a loud speaker warning people to avoid certain areas due to flooding. The Gunpowder Stream runs by the intersection of Lineboro Road, Traceys Mill Road, and Water Tank Road, a half a mile SW of Lineboro. Bob told me that he knows and talked to the owner of Folk C H & Son who sells feed right next to the intersection. The owner of the business said that the water level was up to the bottom of the stop sign. He also said that this was only the third time he had a flood like this since he lived there and he lived there all his life. My supervisor told me that the man was about 60 years old.

River Valley Ranch, a summer camp for kids, had over \$200,000 damage from the flash flood. In the Carroll County Times, Jon Bisset, Executive director of River Valley Ranch said, "It was a flash flood, unlike anything we've ever seen since Hurricane Agnes." Jon Bisset said flood water covered Grave Run Road where the camp is located around 11pm Friday night. A house had to be evacuated in minutes at the camp as the water quickly rose up. The house was nearly destroyed from all the water damage. There were also fences and picnic tables, 8-foot long smoker grill, a covered bridge and camp's new suspension bridge washed away by the river. There was also a truck parked at the camp and it was lifted by the river and carried 100 feet downstream.

In the Carroll County Times, it reported that the South Branch of the Gunpowder River had flooded out Schalk Road No. 1 and washed the rocks supporting the CSX tracks downstream. Wayne Miller, of Manchester, said in the Carroll County Times, "We haven't seen that much railroad damage since Hurricane Agnes."

Also reported in the Carroll County Times, Carroll bureau of roads, Benton Watson, said about 25 roads were closed in the Lineboro/Manchester area Friday night due to flooding. Watson said a county employee in his department who lives on Md. 86 in Lineboro measured 10 inches of rain at his house Friday night, which explains why the flooding was so severe in the Lineboro area.

Weather Observer, Tony Anuszewski who lives between Manchester and Lineboro, told me he had a friend who also reported having 10" rainfall. I told Tony about the 10" report at Lineboro in the newspaper, and he said he knew about that report, but this is a different report.

Tony said he had a new 24 hr rainfall record of 7.64" Friday from Midnight to Midnight.

Tony also set a new record monthly rainfall for August at 10.46" in 2009. The previous August rainfall record was 7.01" in 1986 or 1987.

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My Uncle Carl's dairy farm in SW York Co., Pa. is just a mile or two NW of Bobby Millers station. I talked to my Aunt Diane on the phone, and she said 7.5" rain fell at the farm.

Aunt Diane also told me that 9" of rain fell at Lineboro. She knows a woman who lives in Lineboro and the woman said that about a foot of water rushed in through the front door, flowed through the house and the woman opened the back door to let the water flow back out. The woman just left the water flow through like that.

Bobby Miller of Millers 4NE had his 2nd highest 24hr rainfall of 6.46" at 11pm. Bobby set a new monthly August record rainfall of 10.02"

My dad's Aunt Lydia who lives on a farm in Bachman's Valley between Westminster Airport and Manchester said she had around 6.5" rainfall for the day Friday. She said 4.0" rain fell in the evening.

Aunt Lydia said that a neighbor to the north of her on Eckart Rd. had half foot water in their house. They also had to pull their car out with a tractor.

Robert Rickell, a weather observer and my cousin who lives 2 miles south of Hanover, Pa. in York County got 2.25" rainfall. Most of his rain fell when the line of heavy rain passed through but kept moving east and stalled to the east of Robert's station. After the heavy downpour passed, very little rain fell the rest of the evening. Robert told me that his station has missed the big rains all this year and that the area has been very dry. This was the biggest rain he had all year.

Ray Muller, a weather observer in Westminster reported a rainfall total of 4.87" for August 28th and 29th, 7pm observation. Ray had heavy rain between 2am – 7am Friday with 2.85" measured rainfall at 7pm. Heavy rain also fell between 6pm – 7pm Saturday with 2.02" rainfall measured at 7pm on the 29th.

Local radar at 10:00pm from Fox 45 News at 10 showed that the heavy rain has now moved out of NE Carroll County and is now in southern Pennsylvania in York County & Lancaster County.

Some additional rainfall amounts from CoCoRaHS

Carroll County

Taneytown 3.2 NE 0.42 700AM 8/28
Taneytown 3.2 NE 1.25 700AM 8/29 (1.67" 2 day total)
Taneytown 3.7 NE 1.22 700AM 8/29
Eldersburg 2.0 SE 3.00 700AM 8/28
Eldersburg 2.0 SE 0.16 700AM 8/29 (3.16" 2 day total)

Howard County

Sykesville 2.6 SE 1.94 630AM 8/28
Sykesville 1.7 SSE 2.89 700AM 8/28
Sykesville 1.7 SSE 0.23 700AM 8/29 (3.12" 2 day total)

Frederick County

Frederick 3.5 SSW 0.75 600AM 8/28

Some additional rainfall amounts from the National Weather Service web site.

Baltimore County

Cedarmere 3.00 1200 AM 8/29
Towson 2.89 1200 AM 8/28 2.5 ENE
Towson 2.72 830 AM 8/28 0.8 SW
Owings Mills 2.71 1200 AM 8/28
Pikesville Res. 2.33 1200 AM 8/29
Towson 2.10 200 AM 8/28
Randallstown 2.02 1200 AM 8/29

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Carroll County

Westminster	4.87	1000 PM	8/28
Piney Run Estates	3.00	1200 AM	8/29
Westminster	2.11	800 AM	8/28
Hoods Mill	1.50	800 AM	8/28
Mount Airy	1.26	630 AM	8/28

City of Baltimore

Lake Roland Dam	2.34	1200 AM	8/29
Roland Park	2.05	1200 AM	8/29
Village of Cross	2.02	800 AM	8/28

Harford County

Aberdeen	7.25	800 AM	8/28
Havre De Grace	1.84	600 AM	8/28 4.0 WNW
Fallston	1.77	700 AM	8/28 3.9 WNW

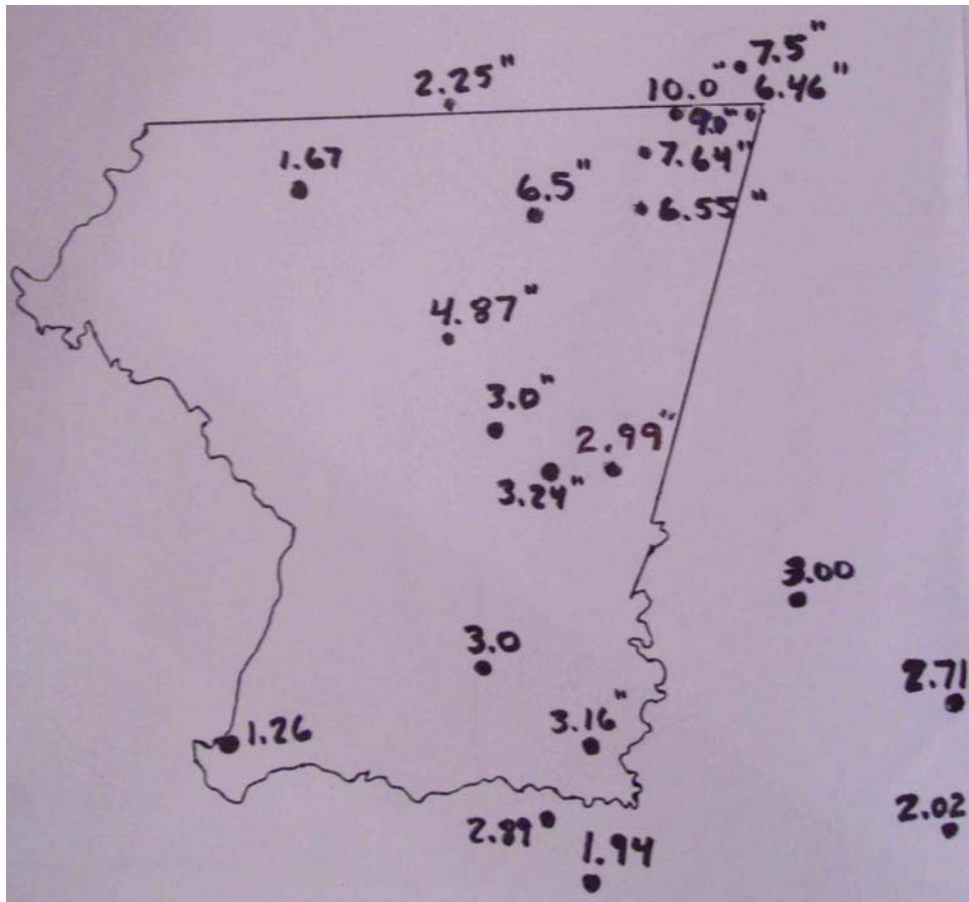
Howard County

West Friendship	2.89	700 AM	8/28
Marriottsville	2.34	800 AM	8/28 0.6 SE
Glenwood	1.98	630 AM	8/28
Ellicott City	1.88	800 AM	8/28 1.7 WNW
Ellicott City	1.64	700 AM	8/28 2.8 WNW

SOME OF THE RAINFALL AMOUNTS USED IN THIS REPORT ARE NOT OFFICIAL AND ARE MAINLY USED TO HELP GIVE A BETTER IDEA OF THE REGIONAL RAINFALL. SOME LOCATIONS SUCH AS LINEBORO, DO NOT HAVE OFFICIAL WEATHER OBSERVERS, SO WE HAVE TO DO THE BEST WE CAN TO FILL IN THE GAPS. MANY FARMERS USE RAIN GAGES TO KEEP TRACK OF RAINFALL FOR THEIR CROPS. RAIN GAGES ARE ALSO USED BY MANY OF THE GENERAL PUBLIC.

I GIVE SPECIAL THANKS TO ALL WHO HELPED WITH THIS REPORT. I WANT TO THANK GARY GALLAHER FOR PREPARING THIS REPORT FOR ACON. THE WEATHER OBSERVERS OF ACON, CoCoRaHS, COOP, NWS, THE FARMERS AND MEMBERS OF THE GENERAL PUBLIC WHO CONTRIBUTED RAINFALL AMOUNTS, THE NEWS REPORTS OF THE CARROL COUNTY TIMES, NEWS AND WEATHER REPORTS FROM WBAL TV CH 11, AND WMAR TV CH2.

The maps, pictures, and newspaper article on pages 10, 11, & 12 were furnished by Herb Close



Carroll County August 28 & 29 rainfall amounts



Herb Close's driveway.

This was the worst washout since he moved here 20 years ago.



Above: LWX Radar 08/29/2009 at 0025 UTC Below Weather Channel 8/29 @ 6:39PM EDT





DYLAN SLAGLE/STAFF PHOTO

Resident Wayne Miller looks over flood damage with a CSX worker Monday at the intersection of Schalk Road No. 1 and Kern Road, where flooding from heavy rain Friday night damaged the road and railroad bed.

Cleanup continues

North Carroll roads remain closed after Friday flooding

By **CARRIE ANN KNAUER**
TIMES STAFF WRITER

MANCHESTER

Two North Carroll roads that were closed due to flooding Friday night may not be reopened until later this week.

Wayne Miller, of Manchester, left work at lunch time to drive back to his neighborhood of Sugar Valley to see if there were any cleanup efforts going.

Miller met a CSX representative at the intersection of Kern Road and Schalk Road No. 1, and the two discussed how the South Branch of the Gunpowder River had flooded out

"It was a flash flood, unlike anything we've ever seen since Hurricane Agnes."

Jon Bisset

Executive director of River Valley Ranch in Manchester

Schalk Road No. 1 and washed the rocks supporting the tracks downstream.

"We haven't seen that much railroad damage since Hurricane Agnes," Miller said. "The entire meadow was flooded."

Miller said he and a few others had

stood by the road with flares Friday night to prevent any cars from trying to cross the bridge over the river. While the river had gone back down by early Saturday morning, Kern Road remained closed Monday as workers repaired the train tracks.

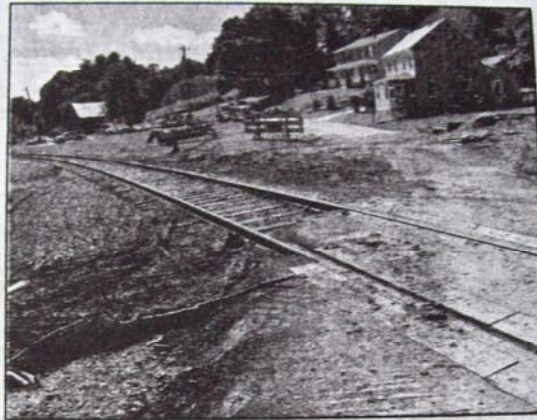
Please see **Cleanup, A7**

Cleanup

From Page A1

Benton Watson, Carroll bureau chief of roads, said Kern Road and York Road No. 1 were the only two roads to remain closed Monday after about 25 roads were closed in the Lineboro/Manchester area Friday night due to flooding. He said it may take a few more days before Kern Road and York Road No. 1 will be ready to be reopened.

On Monday, county road crews were busy cleaning up dirt that had spilled onto paved roads and putting gravel back on unpaved roads that had been washed out. Watson said it will be a few days before county crews will be able to take care of getting



DYLAN SLAGLE/STAFF PHOTO

The intersection of Kern Road and the CSX Railway was damaged by flooding from heavy rain Friday night.

on Alesia-Lineboro Road and one on Grave Run Road, which Carroll fire

rebuild fence benches and house that well as dona the costs of that need to not built.

"I'm enco response, w good," Bissi definitely in now."

Pat Kwe Peaceful V Rupp Road, Hanover, P during the to get home said, but ha when she flooded.

"The who like a sea, i Kwedar sai than anytl seen."

Kwedar s to her hous storm wate