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## Hurricane Agnes

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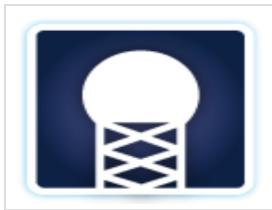
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## Hurricane Agnes The 45th Anniversary

June 2017 marks the 45 year anniversary of Hurricane Agnes, one of the most costly natural disasters in the United States. Nationwide, there were 122 deaths attributed to Agnes, 50 in the state of Pennsylvania. Total damage from Agnes (if adjusted to 2017 dollars) would be around \$17.5 billion dollars. Hurricane Agnes was the most costly natural disaster at the time.

### STORM SUMMARY

Devastating floods occurred across the Mid-Atlantic region resulting from the remnants of Hurricane Agnes. The storm came onshore over the Florida Panhandle during the afternoon of June 19th as a depression status over the Carolinas, only to re-intensify to tropical storm strength as it reached the storm then moved North, weakening to extra-tropical strength as it passed just west of New York. The storm then looped back to the East, crossing Northern Pennsylvania.



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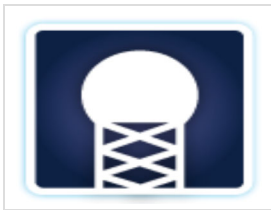
[Fire Weather](#)



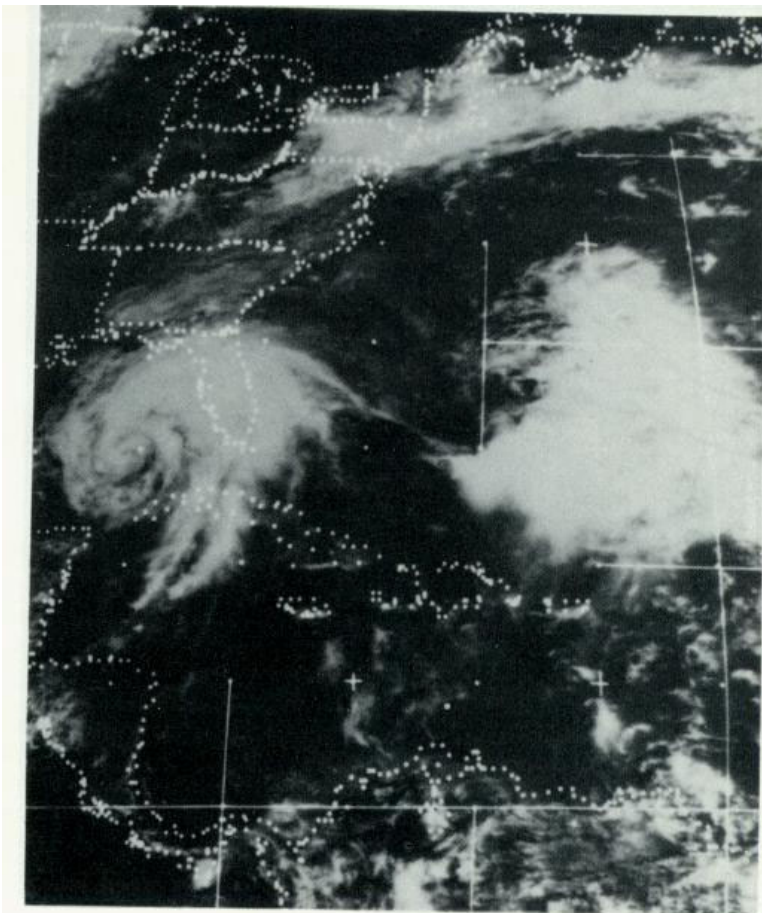
[Text Forecast](#)



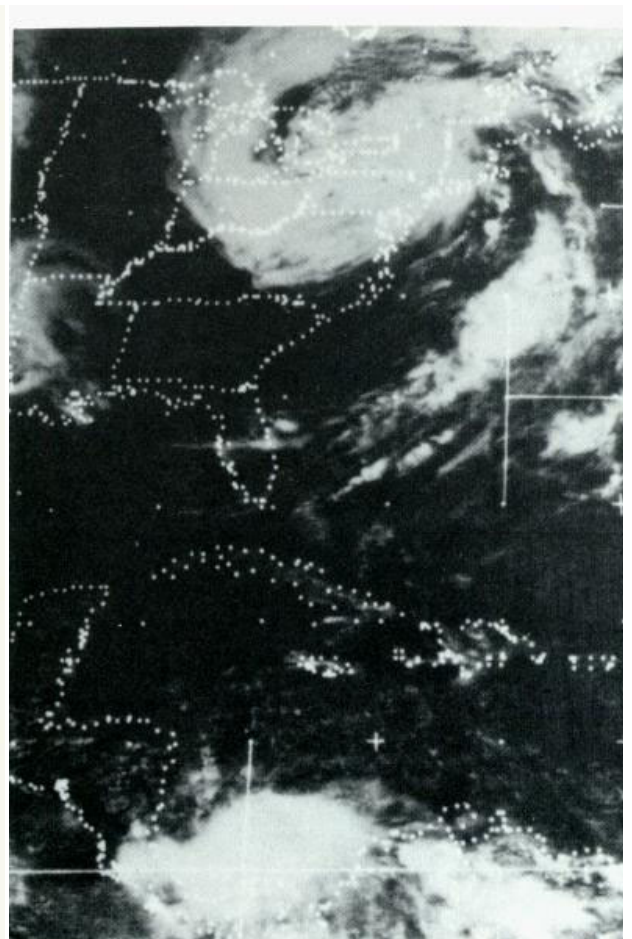
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SATELLITE PHOTOGRAPH



The slow moving remnants of the storm moved across Pennsylvania and dropped generally between 7 and 10 inches of rain in the northern region, although there were some local reports of nearly 18 inches of rain. Eight to 12 inch amounts were also common with 2 to 6 inch amounts across the southern tier of New York. The heavy rain of Agnes followed a relatively wet May, in

inches of rain fell across the area.



### RAINFALL AMOUNTS

The slow moving remnants of the storm moved across Pennsylvania and dropped generally between 7 and 10 inches of the region, although there were some local reports of nearly 18 inches of rain. Eight to 12 inch amounts were also common in Virginia, with 2 to 6 inch amounts across the southern tier of New York. The heavy rain of Agnes followed a relatively wet which 3 to 4 inches of rain fell across the area.

Rainfall amounts across Central Pennsylvania for the four day period from June 20th through June 24th ranged in general around 10 inches. Isolated amounts however approached 18 inches. The heaviest rain (12 to 16 inches) fell in a corridor from West Virginia South through Harrisburg and York. The heaviest reported 24 hour rainfall was recorded at Harrisburg, where 12.53 inches fell between 8 pm on June 21st through 8 pm on June 22nd. Other rainfall totals (June 20-24) include:

HARRISBURG	15 INCHES
WILLIAMSPORT	12 INCHES
YORK	16 INCHES
LEWISTOWN	12 INCHES
STATE COLLEGE	8.5 INCHES
TIOGA	8 INCHES
BRADFORD	8 INCHES
ALTOONA	9 INCHES

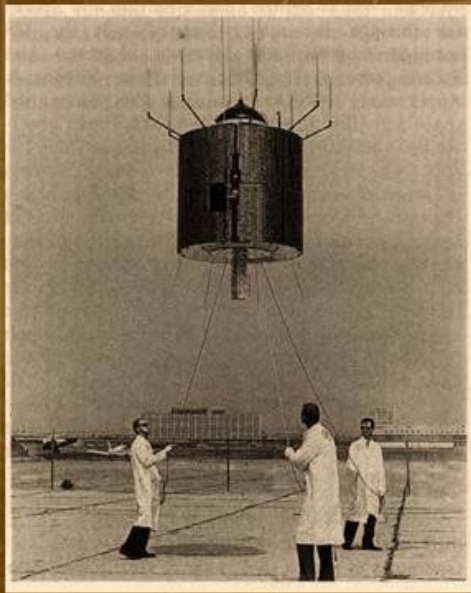
**RIVER CRESTS**

Many record river crests were achieved along the Susquehanna and Juniata rivers, as well as their tributaries. Most of the records were established back in March of 1936, when heavy rainfall on a deep snowpack produced record flooding. Some notable river crests due to Agnes include:

SITE	RIVER OR TRIBUTARY	CREST (FEET)	FLOOD STAGE (FEET)
BLOOMSBURG	SUSQUEHANNA	31.20	19.00
DANVILLE	SUSQUEHANNA	32.32	20.00
SUNBURY	SUSQUEHANNA	35.80	24.00
HARRISBURG	SUSQUEHANNA	32.57	17.00
MARIETTA	SUSQUEHANNA	64.54	49.00
SINNEMAHONING	SINNEMAHONING CR	19.50	17.00
RENOVO	WEST BRANCH SUSQ	26.56	16.00
LOCK HAVEN	WEST BRANCH SUSQ	31.30	21.00
JERSEY SHORE	WEST BRANCH SUSQ	38.40	26.00
WILLIAMSPORT	WEST BRANCH SUSQ	34.75	20.00
MILTON	WEST BRANCH SUSQ	34.55	19.00
LEWISBURG	WEST BRANCH SUSQ	34.23	18.00
CEDAR RUN	PINE CREEK	16.00	12.00
BEECH CR STATION	BALD EAGLE CREEK	12.29	11.00
LOYALSOCKVILLE	LOYALSOCK CREEK	14.74	12.00
WILLIAMSBURG	JUNIATA	18.38	12.00
HUNTINGDON	JUNIATA	20.03	12.00
MAPLETON DEPOT	JUNIATA	33.07	20.00
LEWISTOWN	JUNIATA	42.10	23.00
NEWPORT	JUNIATA	33.97	20.00
CAMP HILL	YELLOW BREECHES CR	18.33	7.00
HOGESTOWN	CONODOGUINET CREEK	17.01	8.00
LANCASTER	CONESTOGA CREEK	27.80	11.00
HARPERS TAVERN	SWATARA CREEK	23.72	9.00
SHERMANSDALE	SHERMAN CREEK	18.09	9.00
PENNS CR STATION	PENNS CREEK	14.85	8.00

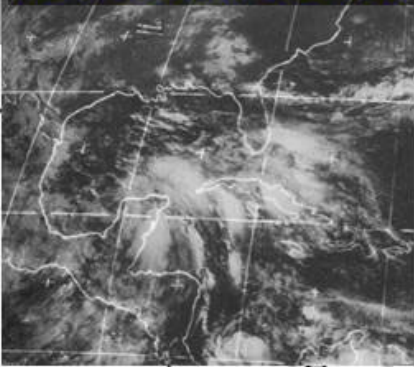
**GRAPHICS FROM THE MIDDLE ATLANTIC RIVER FORECAST CENTER (MARFC)**

The use of satellite images to monitor weather systems was still relatively new technology when this photograph was transmitted from the ATS-3 satellite on June 12, 1972. The highlighted area shows a developing circulation of clouds over the Yucatan Peninsula of Mexico that would become Hurricane Agnes in the coming days.

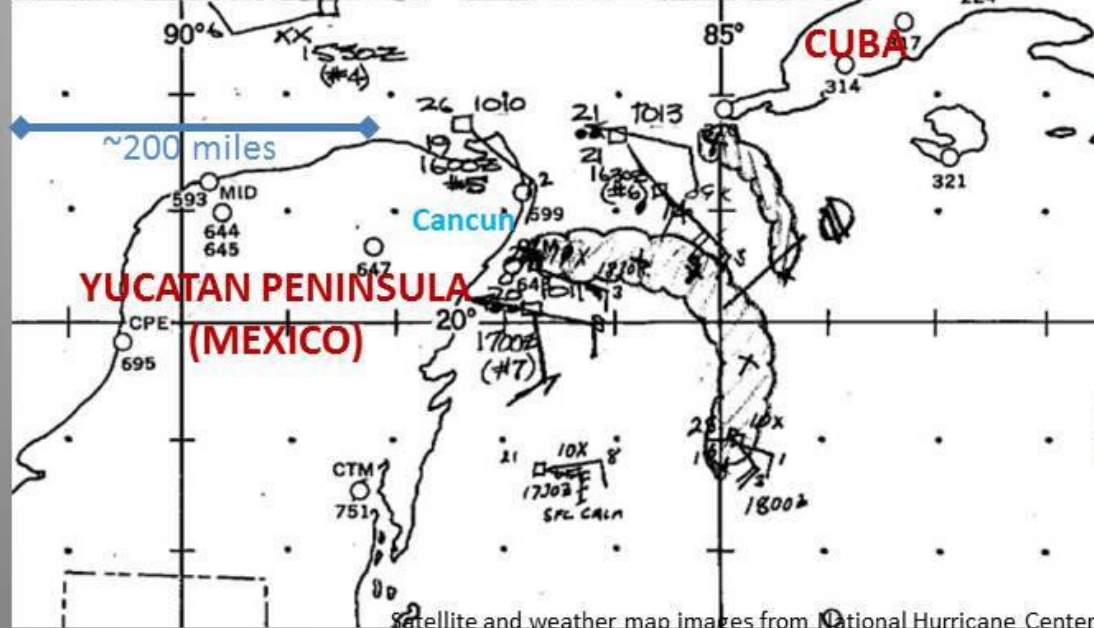


The ATS-3 (Applications Technology Satellite), launched in 1967, was a “work horse” during its operational life which extended well into the 1990s. Still in orbit today in a non-active state, it was the first U.S. satellite to take a color photograph of the Earth. The inset photo (left) from 1967 shows Hughes Aircraft personnel conducting antenna pattern tests prior to launch.

Monday, June 12, 1972



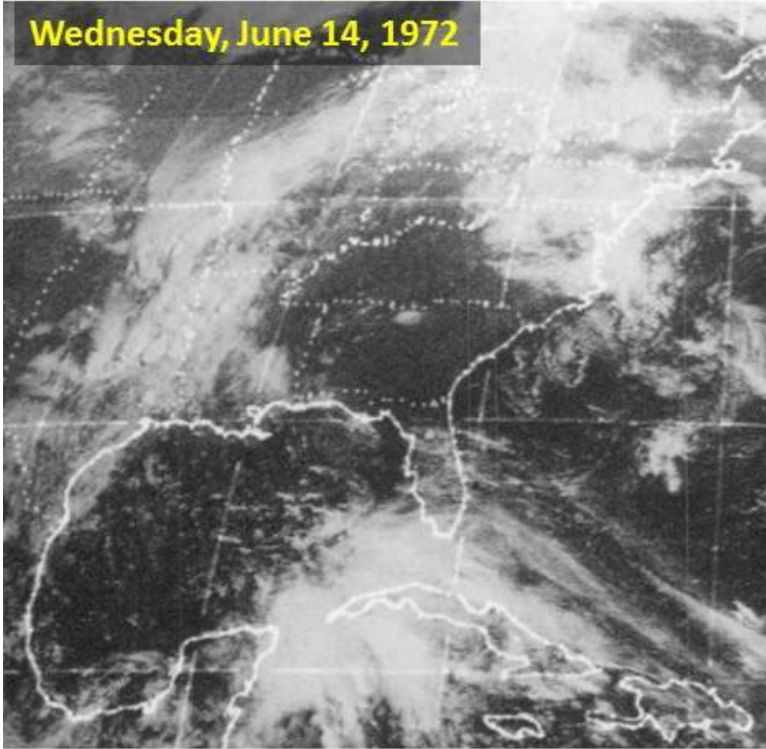
Tuesday, June 13, 1972



By the morning 13<sup>th</sup>, 1972, the thunderstorms just over northeastern Mexico's Yucatan was being closed off and destroyed by National Service meteorologists. The National Hurricane Center in Miami. The two satellite images suggest the disturbance had become better organized in the previous 24 hours. The accompanying weather map (with labels added for clarity) shows the relative positions of land and sea observations available for analysis.

satellite and weather map images from National Hurricane Center archive

Wednesday, June 14, 1972



On June 14<sup>th</sup>, 1972, the morning photo from the ATS-3 satellite (left) shows the clouds associated with the slowly organizing disturbance that would shortly become Tropical Storm Agnes.

But also of note is the mass of cloudiness 1000 miles to the northeast, signaling another cloudy, showery late spring day over most of the middle Atlantic region. In fact, by the 14<sup>th</sup>, many locations in New York, New Jersey, Pennsylvania, and Maryland had already received their full June rainfall quotas. The widespread wet soil conditions and higher than normal stream levels set the stage for the disaster soon to unfold.



The National Weather Service's M. R. Fortson Federal Flood Forecasting Center was located on the 10<sup>th</sup> floor of the building in Harrisburg. A person staffed the center, making it possible for the center to monitor river levels in several states (and District of Columbia) in the mid-Atlantic region.

Thursday, June 15, 1972



...BULLETIN...  
 NOAA NATIONAL HURRICANE CENTER BULLETIN 11.30AM EDT THURSD  
 JUNE 15 1972

WEATHER OBSERVATIONS FROM SHIPS AND LAND STATIONS AROUND TH  
 PENINSULA INDICATE THAT THE LOWEST PRESSURE IN THE TROPICAL  
 DISTURBANCE HAS MOVED OFF THE NORTHEAST COAST TO FORM A DEP  
 A FEW SQUALLS WITH WINDS TO 40 MPH ARE OCCURRING WITHIN 150  
 OF THE YUCATAN CHANNEL. SMALL CRAFT AROUND THE NORTHWESTERN  
 THE SOUTHEASTERN GULF OF MEXICO AND THRU THE FLORIDA STRAIT  
 NOT VENTURE INTO OPEN WATERS. THE TROPICAL DEPRESSION IS EX  
 TO DRIFT NORTHWARD THIS AFTERNOON AND TONIGHT AND CONDITION  
 FAVOR A SLOW STRENGTHENING. RECONNAISSANCE AIRCRAFT WILL MO  
 THE SYSTEM THIS AFTERNOON.

ANOTHER BULLETIN WILL BE ISSUED AT 6 P.M. EDT BY THE NATION  
 HURRICANE CENTER.

The above public statement (scan of original teletype copy) issued by the National H  
 Center in Miami on the morning of June 15, 1972, warned of the increasing threat to  
 interests posed by the tropical depression now located between the Yucatan Penin  
 Cuba. The teletype message below shows conditions reported by the freighter "Zinnia

OBS ZINNIA 1 NC 160000  
 BT  
 OBS METEO WASHDC  
 BT  
 /UNCLAS/  
 GYTZ STORM 22.8N 85.6W AT 152400 WIND 090 AT 37 KTS DECREASING  
 BARO 100.7 TEMP 76 HEAVY RAIN SQUALLS THROUGH PAST SIX HOURS  
 WITH WIND FORCE 9 DURING SQUALLS SKY OVERCAST



In 1972, the Nation  
 Service's National Hurr  
 was located in this bui  
 University of Miami cam

9AT33 13292  
 15 JUN 72

Graphics obtained from the NHC online archive

With the upgrade to tropical storm strength on June 16th, "Agnes" became the first named storm of the 1972 Atlantic season. Since the National Hurricane Center began identifying tropical storms and hurricanes with female first names in 1954 (male names were added in 1979), this was the first time the name Agnes had been used. It was also the last time, as it was immediately retired in accordance with NHC custom of preserving the legacy of particularly destructive storms.



...BULLETIN...

WHCA2 KMIA 161600  
NOAA NATIONAL HURRICANE CENTER ADVISORY NUMBER 1 TROPIC  
AGNES NOON EDT FRIDAY JUNE 16 1972

...TROPICAL STORM FORMS IN NORTHWEST CARIBBEAN

THE TROPICAL DEPRESSION WHICH HAS BEEN NEARLY STATIONARY OFF THE YUCATAN PENINSULA FOR SEVERAL DAYS HAS STRENGTHENED TO TROPICAL STORM...THE FIRST OF THE SEASON IN THE ATLANTIC...CARIBBEAN GULF WATERS.

AT NOON...1600Z...THE CENTER OF TROPICAL STORM AGNES WAS AT LATITUDE 20.0 N LONGITUDE 86.5W OR ABOUT 40 MILES SOUTH OF COZUMEL ISLAND WHICH IS JUST OFF THE NORTHEAST COAST OF THE YUCATAN MAINLAND. THIS POSITION IS BASED UPON MILITARY RECONNAISSANCE. THE CENTRAL PRESSURE IS ESTIMATED 998 OR 29.47 INCHES.

LAND AND SHIP REPORTS AND PICTURES FROM THE ATS 3 SATELLITE INDICATE THAT MOST OF THE WIND AND WEATHER IS OCCURRING OVER THE SEMICIRCLE OF THE STORM MAINLY IN THE YUCATAN CHANNEL AND THE NORTHWEST CARIBBEAN SEA.

HIGHEST WINDS ARE ESTIMATED 50 MPH JUST EAST OF THE CENTER. GALE FORCE WINDS ARE OCCURRING OVER THE WATERS 200 MILES TO THE NORTH AND EAST AND 100 MILES TO THE SOUTH OF THE CENTER.

AGNES IS FORECAST TO STRENGTHEN VERY SLOWLY WHILE REMAINING NEARLY STATIONARY OR DRIFTING SLIGHTLY TOWARDS THE EAST.

RAINS ASSOCIATED WITH THE STORM CONTINUE OVER THE NORTHWEST CARIBBEAN...FLORIDA STRAITS... AND WESTERN CUBA AND ARE EXPECTED TO CONTINUE OVER EASTERN CUBA...JAMAICA...PORTIONS OF THE GULF OF MEXICO AND HISPANIOLA BECAUSE OF GENERALLY DISTURBED CONDITIONS IN THE TROPICS.

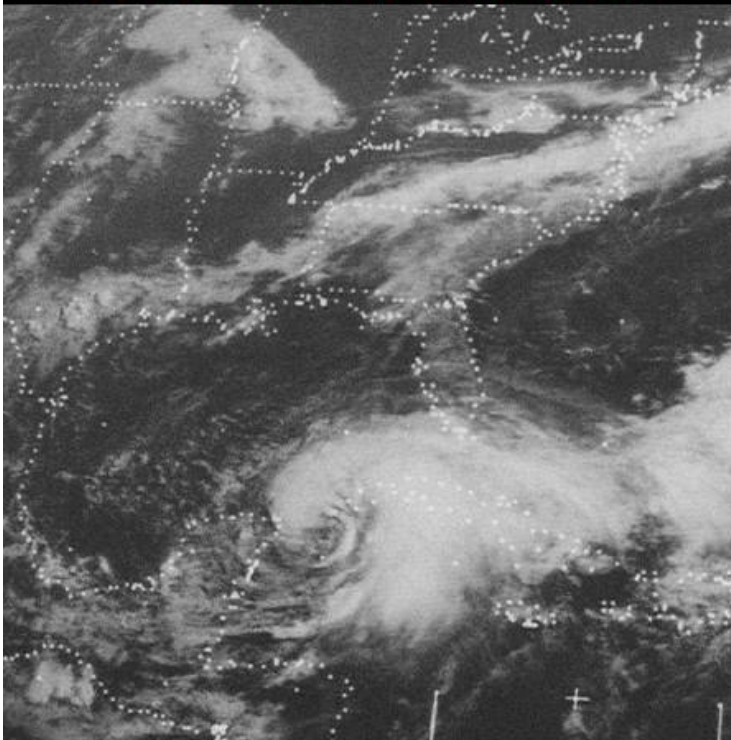
SMALL CRAFT FROM VERO BEACH TO KEY WEST SHOULD REMAIN IN PORT. WATERS AND THOSE AROUND WESTERN CUBA AND THROUGHOUT THE NORTHWEST CARIBBEAN SHOULD REMAIN IN PORT.

ALL INTERESTS AROUND THE NORTHWEST CARIBBEAN SEA SHOULD BE KEPT UNDER WATCH WITH FUTURE ADVISORIES AND BULLETINS.

THE NEXT ADVISORY WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER AT 6 PM EDT WITH AN INTERMEDIATE BULLETIN AT 3 PM EDT.

Saturday, June 17, 1972

# HURRICANE AGNES



Dr. Robert Simpson, then director of the National Hurricane Center in Miami, issued the first public statement (right) on the now upgraded Hurricane Agnes. Dr. Simpson, co-creator with Herbert Saffir of the 5-category Saffir-Simpson scale of hurricane strength, retired from the National Weather Service in 1974, and celebrated his 99<sup>th</sup> birthday in November, 2011.

With sustained winds now near 75 miles per hour (1 the threshold), this historic satellite photo (left) shows off Cuba's western tip on her first day as a hurr

NOAA NATIONAL HURRICANE CENTER HURRICANE ADVISORY NUMBER  
AGNES 6 PM EDT SATURDAY JUNE 17 1972

...AGNES REACHING HURRICANE STRENGTH...THREATENS WESTERN CUBA AND LOWER FLORIDA KEYS...

THE NATIONAL WEATHER SERVICE HAS ISSUED GALE WARNINGS HURRICANE WATCH FOR THE WESTERN STRAITS OF FLORIDA AND KEYS FROM KEY WEST TO DRY TORTUGAS EFFECTIVE AT 6 PM EDT

ALL INTERESTS IN THE CENTRAL AND LOWER FLORIDA KEYS AND WEST COAST OF FLORIDA FROM TAMPA BAY SOUTHWARD SHOULD REMAIN IN CLOSE TOUCH WITH LATER ADVISORIES. IF AGNES CONTINUES ITS PRESENT COURSE AND MAINTAINS ITS STRENGTH THE HURRICANE WATCH WILL BE EXTENDED TO SOME OF THESE AREAS EARLY SUNDAY MORNING.

AT 6 PM EDT...2200Z...AGNES WAS LOCATED NEAR LATITUDE 21.3 NORTH...LONGITUDE 85.1 WEST. THIS IS ABOUT 300 MILES OF KEY WEST FLA. IT IS MOVING TOWARD THE NORTH ABOUT 10 MPH WITH STRONGEST SUSTAINED WINDS NEAR 75 MPH AND GUSTS BRIEFLY TO 95 MPH. GALES EXTEND OUTWARD 200 MILES TO THE NORTH AND 100 MILES TO THE SOUTH OF THE CENTER. THE LOWEST SURFACE PRESSURE IS NOW 986 MBS...29.12 INCHES.

AGNES IS PREDICTED TO GAIN FURTHER STRENGTH DURING THE DAY AND WILL PASS THE WESTERN TIP OF CUBA EARLY SUNDAY MORNING MOVING A LITTLE FASTER ON A COURSE BETWEEN NORTH AND NORTHEASTWARD. THIS WOULD BRING THE CENTER AHEAD OF THE TURTUGAS LATE SUNDAY NIGHT.

VERY HEAVY RAINS AND NEAR HURRICANE FORCE WINDS WILL AFFECT MANY AREAS OF WESTERN CUBA TONIGHT THROUGH EARLY SUNDAY NOON SUNDAY.

SMALL CRAFT IN THE VICINITY OF CUBA...THE FLORIDA STRAITS SHOULD REMAIN IN PORT AND ALONG THE FLORIDA PENINSULA FROM DAYTONA BEACH AND CEDAR KEY SOUTHWARD SHOULD REMAIN IN PORT. HEAVIER BOATS IN THE PATCH OF AGNES SHOULD PROCEED WITH CAUTION.

REPEATING THE 6 PM POSITION... 21.3 NORTH... 85.1 WEST

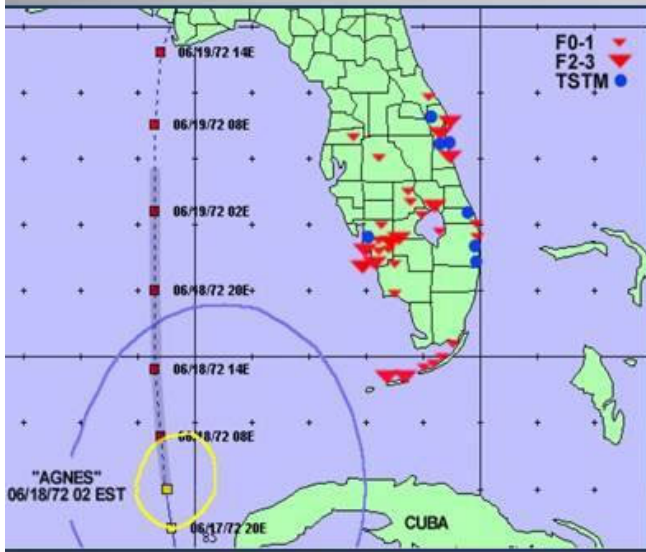
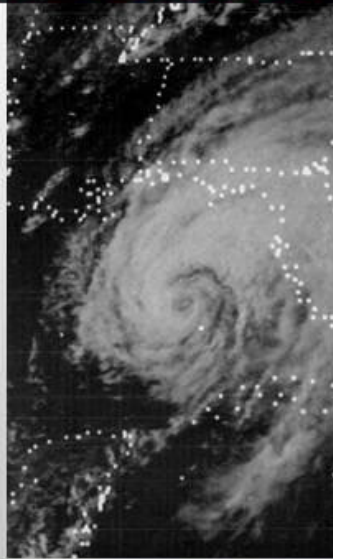
THE NEXT ADVISORY WILL BE ISSUED BY THE NATIONAL HURRICANE CENTER AT MIDNIGHT WITH INTERMEDIATE BULLETINS AT 8 AND 10 PM EDT

SIMPSON

# SUNDAY, JUNE 18, 1972: HURRICANE AGNES TURNS DEADLY

By midday on June 18<sup>th</sup>, Agnes was in her second day as a weak hurricane with sustained winds around 75 miles per hour and gusts in squalls of up to 95 m.p.h. She was moving steadily northward across the Gulf of Mexico at a brisk 12 m.p.h. clip. Despite her limited peak wind strength, Agnes nevertheless had a well defined and unusually large circulation, as shown in the satellite photo, and her effects were beginning to be felt across wide areas of the southeastern United States mainland.

June 18<sup>th</sup> is generally considered the day Hurricane Agnes turned deadly. While normally remembered only for the massive flooding she brought to the middle Atlantic states in the coming days, Agnes first ravaged Florida on June 18<sup>th</sup> and 19<sup>th</sup> with what still stands today as one of the worst tropical storm-spawned tornado outbreaks in history. At least 28 tornadoes resulted in the loss of seven lives, hundreds injured, and extensive destruction of property.



Left: Plot of tornadoes by F-scale and severe thunderstorms of the Agnes outbreak. Agnes is shown at 0200 EDT 18 June 1972 with wind field radii just before the first tornado report in the Keys. Six hourly positions are shown on the track. The heavy shaded part of the track marks the period when Agnes's rainbands were producing tornadoes.

Extracted from: Hagemeyer, Bartlett C. et al., "Thirty Years After Hurricane Agnes - The Forgotten Florida Tornado Disaster". Courtesy of National Weather Service Southern Region Headquarters

Everglades tornadoes - June



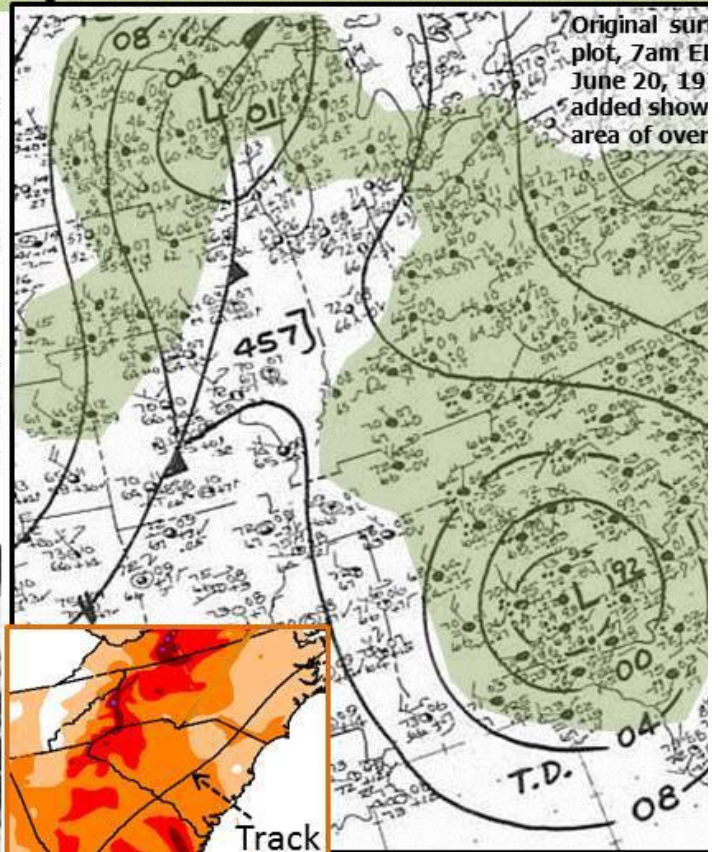
Appreciation ex  
Leonard cyclonejin



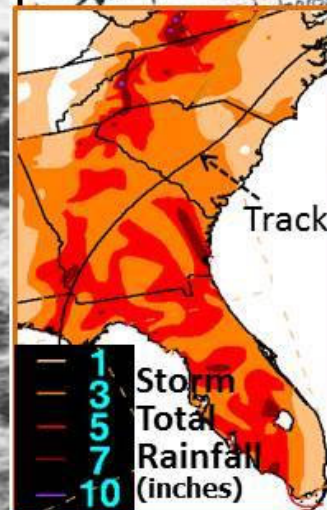
**Tuesday, June 20, 1972 – Agnes, now inland, begins her northeastward march back toward**

On the 20<sup>th</sup>, the moisture laden tropical remnants of what one day earlier was Hurricane Agnes trekked steadily northeastward across Georgia and South Carolina. By afternoon, a heavy rain had spread across southern portions of the Middle Atlantic River Forecast Center's service area, especially the Shenandoah and James River basins in Virginia.

Meanwhile, a strong upper-level weather system and surface cold front moving southeastward from the Great Lakes began developing its own area of heavy rain in western New York and Pennsylvania by late in the day.



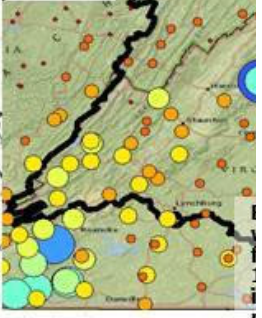
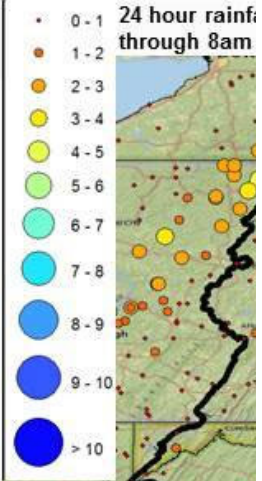
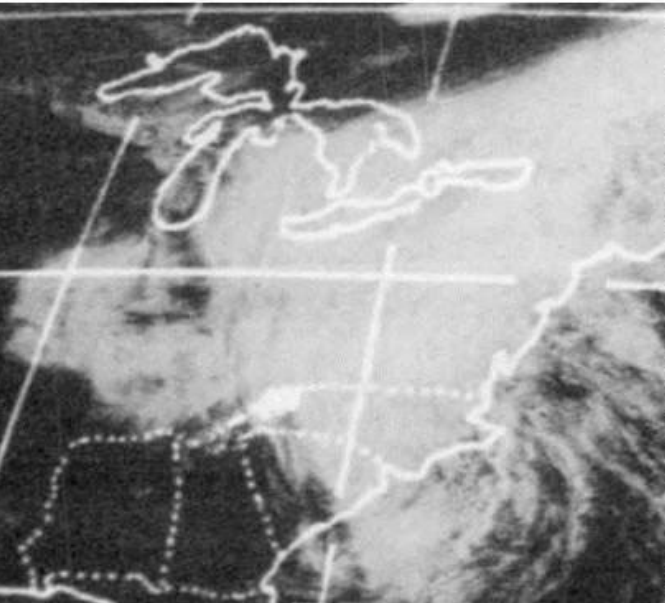
**June 20, 1972 morning ATS-3 satellite photo**



As Agnes' remnants advance northeastward across the southeastern U. S. on June 20, locally heavy rain of up to 10 inches is reported, but most areas receive less than half that, with limited flood damage.

# Wednesday June 21, 1972: AGNES is REBORN

During the night of June 20<sup>th</sup>-21<sup>st</sup>, the remnants of Agnes, now over eastern North Carolina, reignited back to tropical storm strength in a relatively rare interaction with a vigorous weather system that had settled in from the Great Lakes region the day before. Rainfall coverage and intensity rapidly increased as tropical moisture streamed inland from the Atlantic Ocean. By the morning of the 21<sup>st</sup>, reports from the Virginia mountains of severe flash flooding from up to 10 inches of overnight rainfall were being relayed to the staff of the River Forecast Center in Harrisburg, and a steady northward progression of the rain made it clear that a serious river flood threat was evolving throughout Virginia. In addition, several inches of rain had also fallen overnight in upstate New York, and flooding of the Chemung River and its tributaries had commenced.



Complex - Forest City  
announced to Area

Palmyra - 4pm 2/21

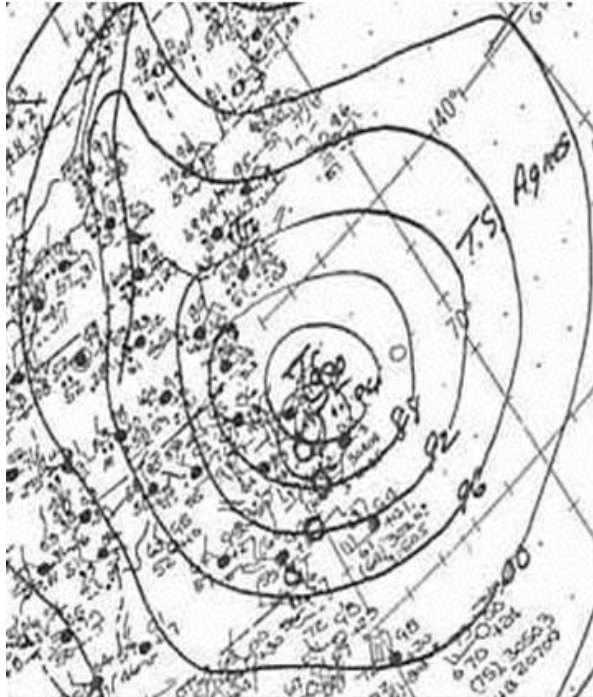
Station	6/21	6/20	3hr
LAVA	18.24 20.50		DVA 1.20
BVA	7.9		Free Union
HVA	19.27 19.20		Shelburne
Balt	10.39 25.00		Tye R. R.
SCVA	11.20 23.20		Farmville
DVA	4.20 1.80		Hot Springs
BVA	10.20 R 9.50		Bluffton
			Bluffton
			Deer Creek

Received 1 PM  
6/21  
Brewer

June 21, 1972 satellite photo and weather map showing the rapid re-strengthening of Agnes to a tropical storm in eastern North Carolina.

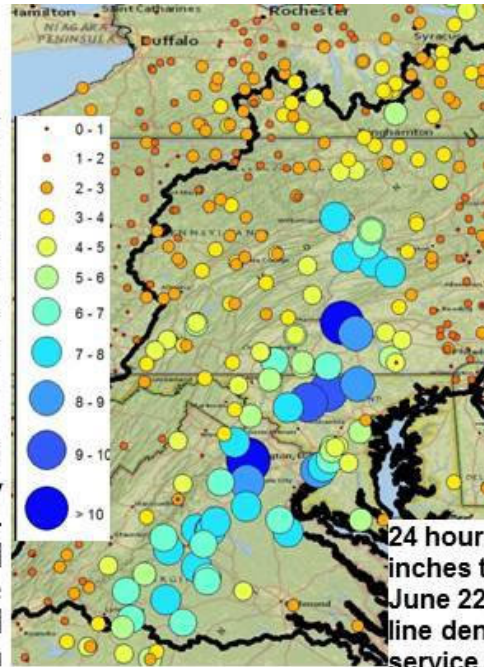
## By Thursday morning, June 22<sup>nd</sup>, 1972,

the magnitude of the catastrophe in progress was becoming clear. Reborn Tropical Storm Agnes chummed northward just off the middle Atlantic coast, and now registered the lowest central pressure (977 millibars/28.85") of her tropical life, including her brief time as a hurricane in the Gulf of Mexico. Maximum sustained winds of 70 miles per hour measured by reconnaissance aircraft were just below the threshold for an upgrade to hurricane strength for a second time. Up to an additional 11 inches of rain had fallen in the previous 24 hours, the heaviest axis extending from central Virginia to south-central Pennsylvania.

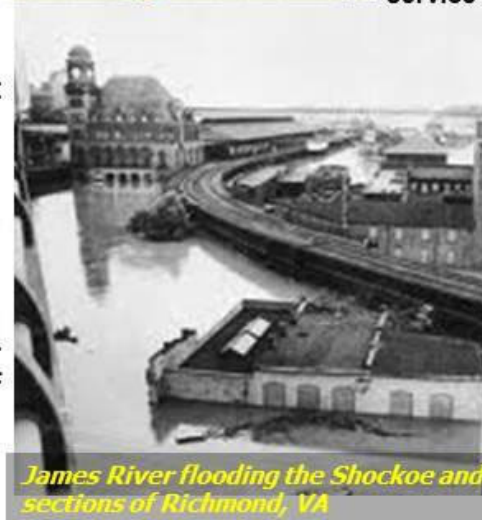


June 22, 1972 7:00 EDT weather map

A wind-driven torrential rain fell through the day across much of Pennsylvania, Maryland, and northern Virginia. While the heaviest rain had just ended farther south and west, rivers in Virginia and Maryland were already raging out of their banks to, in some cases, historic levels. By early evening, the James River at Richmond, Virginia, easily surpassed the previous record flood level set just three years earlier in the aftermath of Hurricane Camille, and continued rising through the night.



24 hour inches 1 June 22 line den service



James River flooding the Shockoe and sections of Richmond, VA

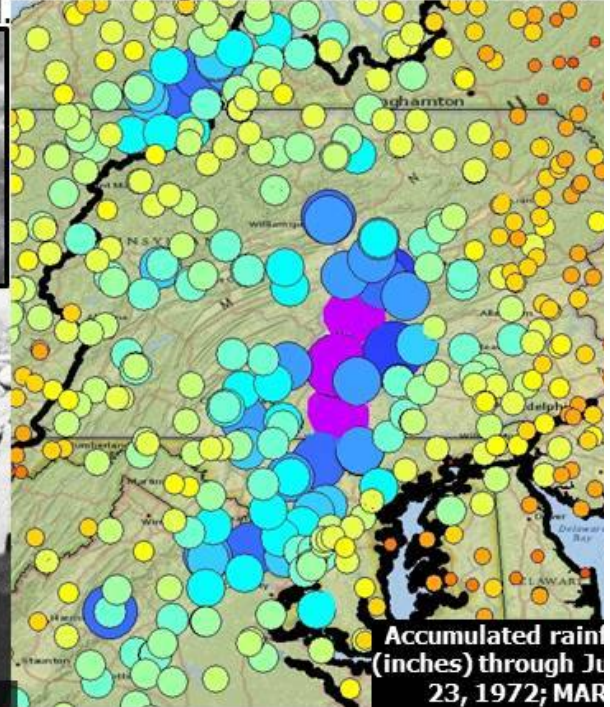
While more rain would fall, and the larger rivers would continue rising into the weekend, **Friday, June 23, 1972 is often remembered as the most infamous day of the Agnes disaster**, especially in the Susquehanna River basin, where rivers rose at rates never before experienced in response to more than 10 inches of rainfall over large areas of upstate New York and central Pennsylvania during the previous 36 hours. In the morning, the basin's population was realizing that the records of the great flood of March, 1936 were threatened, and the day was spent in frantic preparation to flee or fight the surging water. By day's end, Corning and Elmira, New York, were underwater as the Chemung River crested several feet above the record levels. As the Chemung's flood wave moved downstream into the already raging Susquehanna, residents of northeast Pennsylvania's Wyoming Valley waged a futile sandbagging effort to keep the levees topped. Sirens signaled the battle's end with the late morning failure of the levee at Wilkes-Barre; thousands of residents were forced to flee to higher ground.



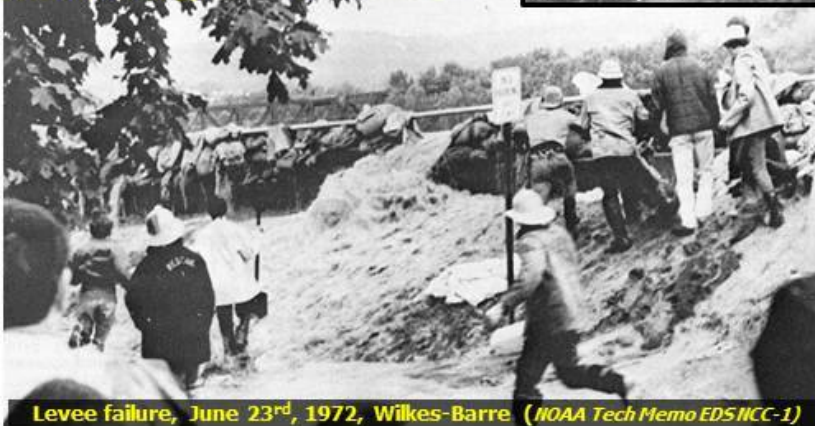
**Downtown Elmira (courtesy of Chemung Co. Historical Society)**



**Morning satellite image showing Agnes' circulation absorbed into upper level weather system**



**Accumulated rain (inches) through June 23, 1972; MAR**



**Levee failure, June 23<sup>rd</sup>, 1972, Wilkes-Barre (NOAA Tech Memo EDS NCC-1)**

As conditions worsened, the basin's infrastructure began to crumble. Telephone, water, electricity, and transportation failed through the day, and staff at the River Forecast Center in the Federal Building in Harrisburg sifted through arriving reports, often erroneous, to provide updated forecasts for the public, emergency personnel, and government officials, while at the same time concerned about their own homes and families. This scan of a page (right) from the June 23<sup>rd</sup> logbook reporting the loss of critical electrical service illustrates the challenges faced by staff.

POWER OUT AT  
BLDG AT 7:15

**Saturday, June 24<sup>th</sup>, 1972** was Agnes' high water mark for most Pennsylvania communities along the Susquehanna River in an unusually long, nearly simultaneous, crest from the New York state line to its mouth at the Chesapeake Bay in Maryland. The total costs in human life and property damage were not fully known, yet the enormity of the disaster was obvious. Hundreds of thousands had lost their homes, or were without power, fresh water, telephone, and media service. Many roads, railroads, and bridges were destroyed. Some communities, including Wilkes-Barre and Harrisburg, were also reeling from the tragic irony of extensive fire damage in flooded neighborhoods. Despair was widespread, but acts of incredible heroism and generosity were also common.



An airlifted rooftop generator allowed the restoration of limited power to the River Forecast Center in Harrisburg, but communications were still spotty, and staff spent Friday night and Saturday separating rumors and erroneous reports from data needed for forecast preparation.



below: Susquehanna River nears crest at Harrisburg as Market St. Bridge becomes submerged; just upstream, several spans of Walnut St. bridge that were later destroyed in 1996 flood.



right: National Guard patrols outside Federal Building (RFC on 11<sup>th</sup> floor at top of image).

right: actual 1972 worksheet used by RFC forecaster to estimate volume of water at Wilkes-Barre.

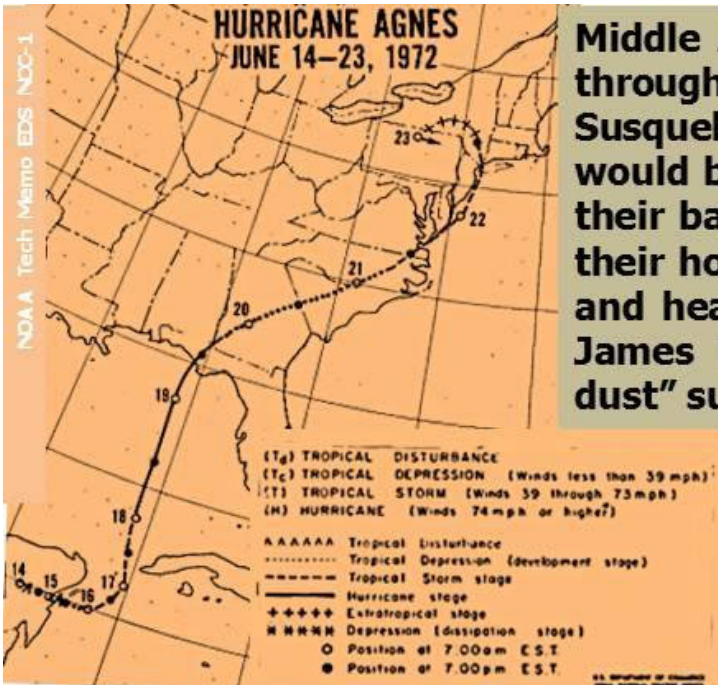
*Rumor.*  
 9:30 P.M. ✓  
 Rumor of.  
 Shanken - Va  
 Was it Broken  
 IS A 3 FT wall  
 Moving down  
 Should we Gas  
 Bridges?

*Crested at Noon  
 SNPA - with inches  
 of the T of of the dike  
 from below*

left: dramatic photo showing Susquehanna River cresting just below the top edge of the Sunbury floodwall, constructed following the devastating 1936 flood (courtesy of Sunbury Municipal Authority); also, the accompanying crest verification received and logged 2 hours later at the RFC.

above: entry from RFC rumored (later dispelled "water" moving toward Island nuclear power) construction near Midd

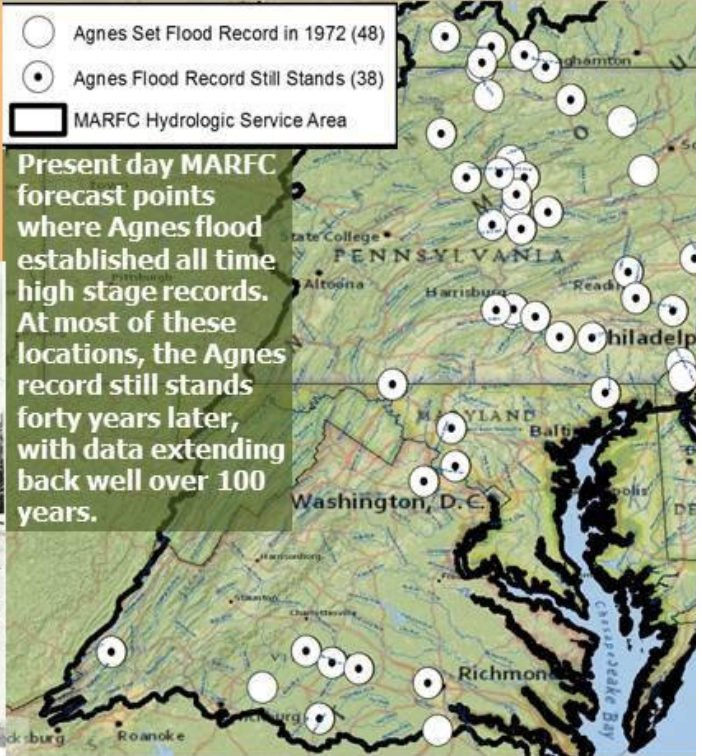
# HURRICANE AGNES JUNE 14-23, 1972



Middle Atlantic rivers and creeks gradually throughout Sunday, June 25<sup>th</sup>, 1972, but Susquehanna and lower Potomac river basins would be several days before they were back to their banks, and displaced residents could not return to their homes and business to begin the long and healing process ahead. Elsewhere, such as the James River basin of Virginia, the long "dust" summer of 1972 was underway (photo below)

- Agnes Set Flood Record in 1972 (48)
- Agnes Flood Record Still Stands (38)
- ▭ MARFC Hydrologic Service Area

Present day MARFC forecast points where Agnes flood established all time high stage records. At most of these locations, the Agnes record still stands forty years later, with data extending back well over 100 years.



-high-water-level-

Richmond's 14<sup>th</sup> St. Bridge, June 25<sup>th</sup>, 1972 (NOAA tech memo)