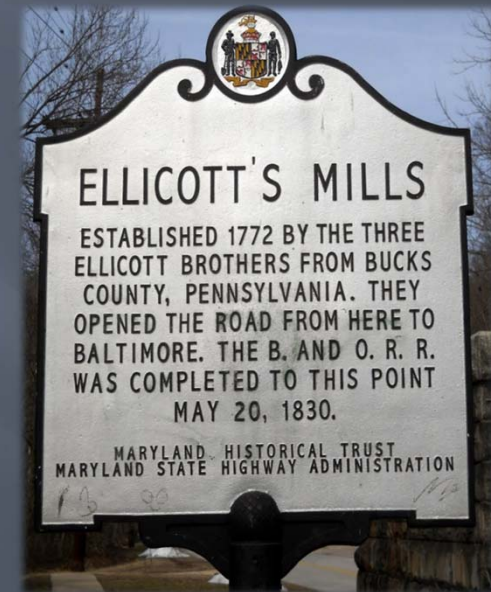


OLD ELLICOTT CITY FLOOD OF 2016



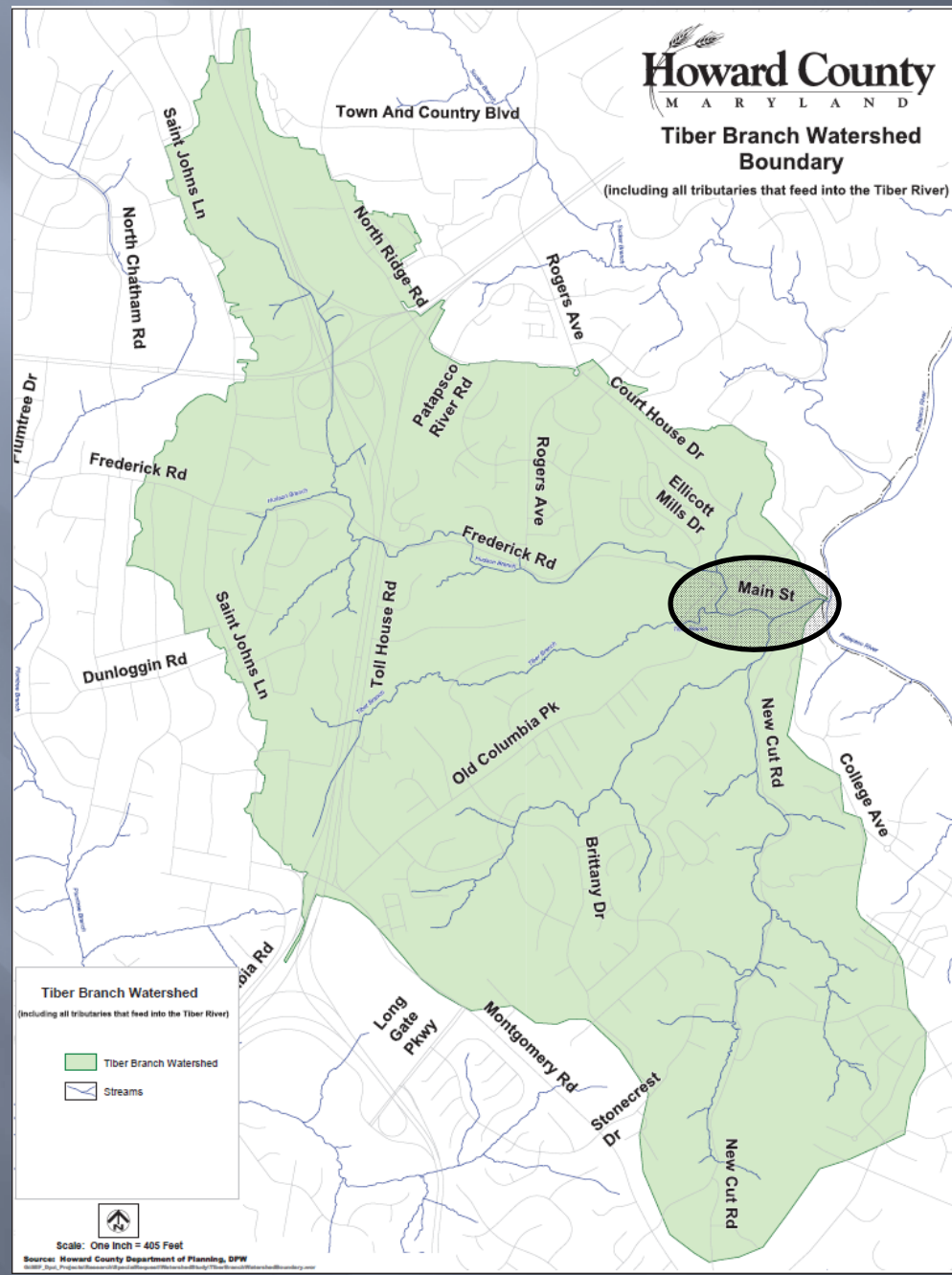
CWEA
Fall Stormwater Seminar
December 14, 2016



Ellicott Brothers Establish a Mill Town

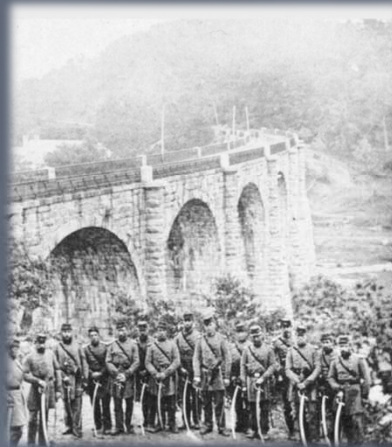


Tiber Branch Watershed Boundary
(Including all tributaries that feed into the Tiber River)





A Bit of History



The Ellicott City Floods



1868



1952



1972



1975



2011

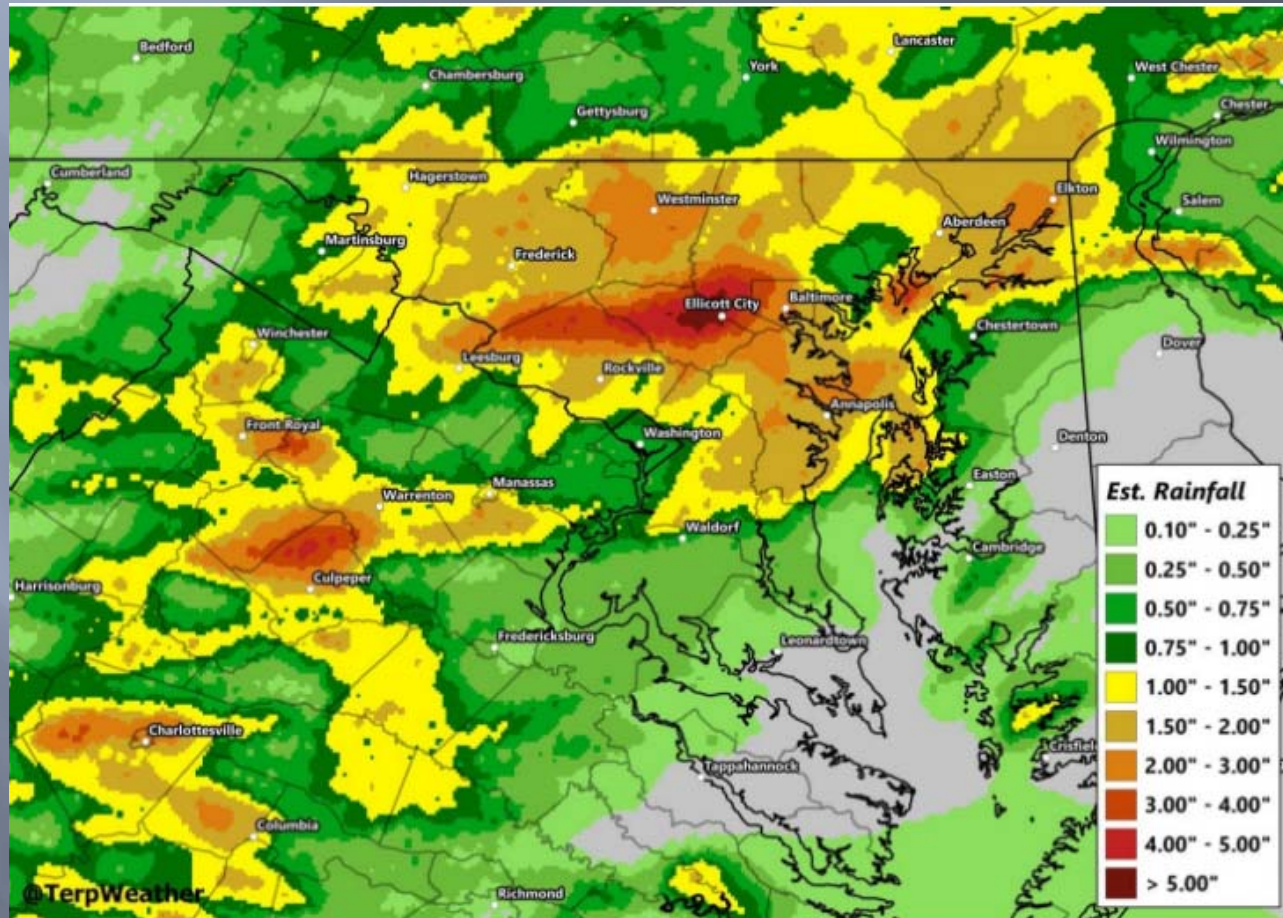


2016



July 30, 2016

A Backbuilding Thunder Storm



Doppler estimated rainfall for flash flood event July 30. (Jordan Tessler)

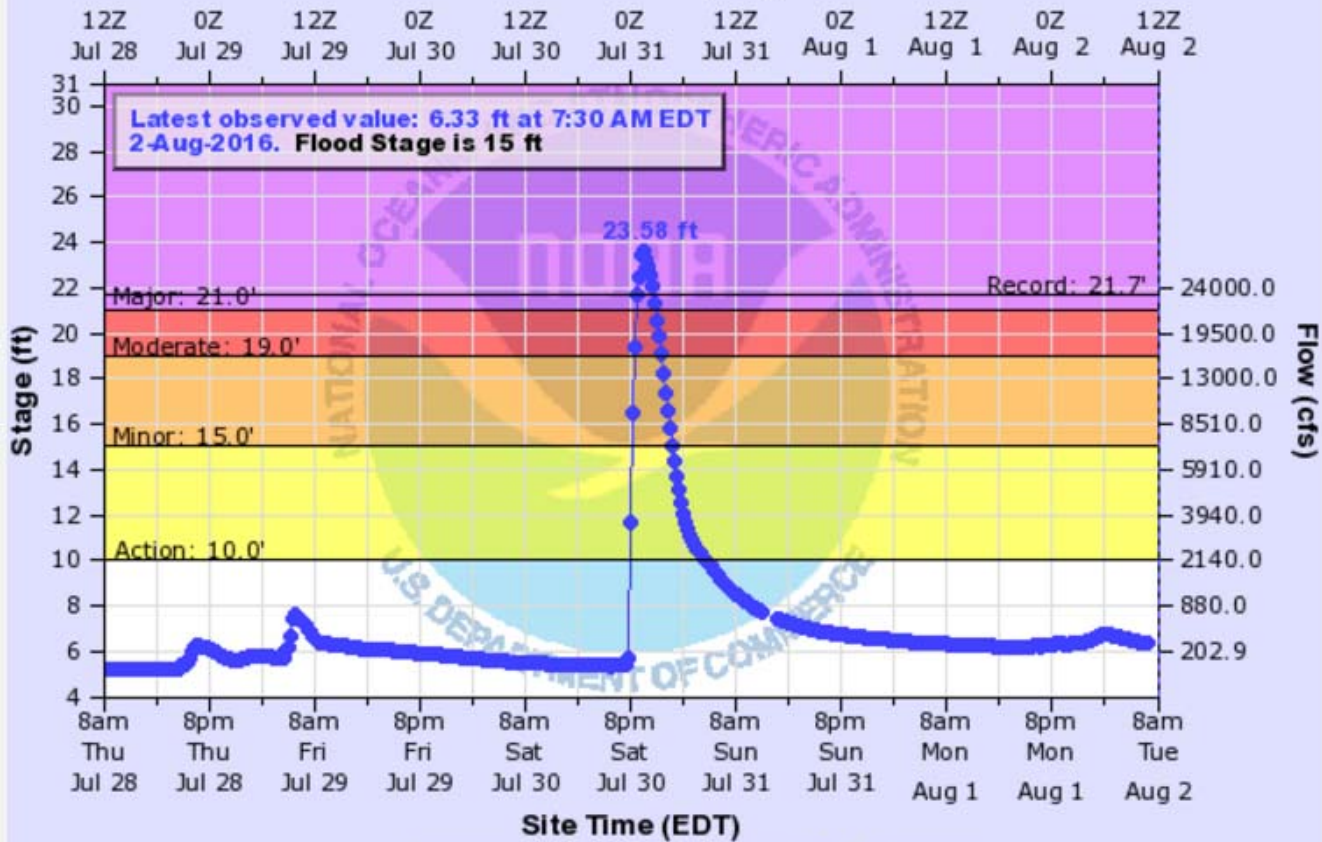
Historic Rainfall and Flash Flooding Saturday Night in Ellicott City, Maryland

Duration	Rainfall Total	Time
1 minute	0.20"	7:51-7:52 pm
5 minutes	0.80"	7:50-7:55 pm
10 minutes	1.44"	7:50-8:00 pm
15 minutes	2.04"	7:46-8:01 pm
20 minutes	2.48"	7:44-8:04 pm
30 minutes	3.16"	7:36-8:06 pm
60 minutes	4.56"	7:30-8:30 pm
90 minutes	5.52"	7:00-8:30 pm
2 hours	5.92"	6:45-8:45pm

The storm total rainfall at Ellicott City was 6.50 inches. Based on the preliminary precipitation frequency estimates in NOAA Atlas 14 from the nearest location, the rainfall amounts with duration 10 minutes to 2 hours statistically have a less 0.1% chance of occurring in any given year, or a 1 in 1000 year event.

PATAPSCO RIVER NEAR ELKRIDGE AT PATAPSCO VALLEY STATE PARK

Universal Time (UTC)



Latest observed value: 6.33 ft at 7:30 AM EDT 2-Aug-2016. Flood Stage is 15 ft

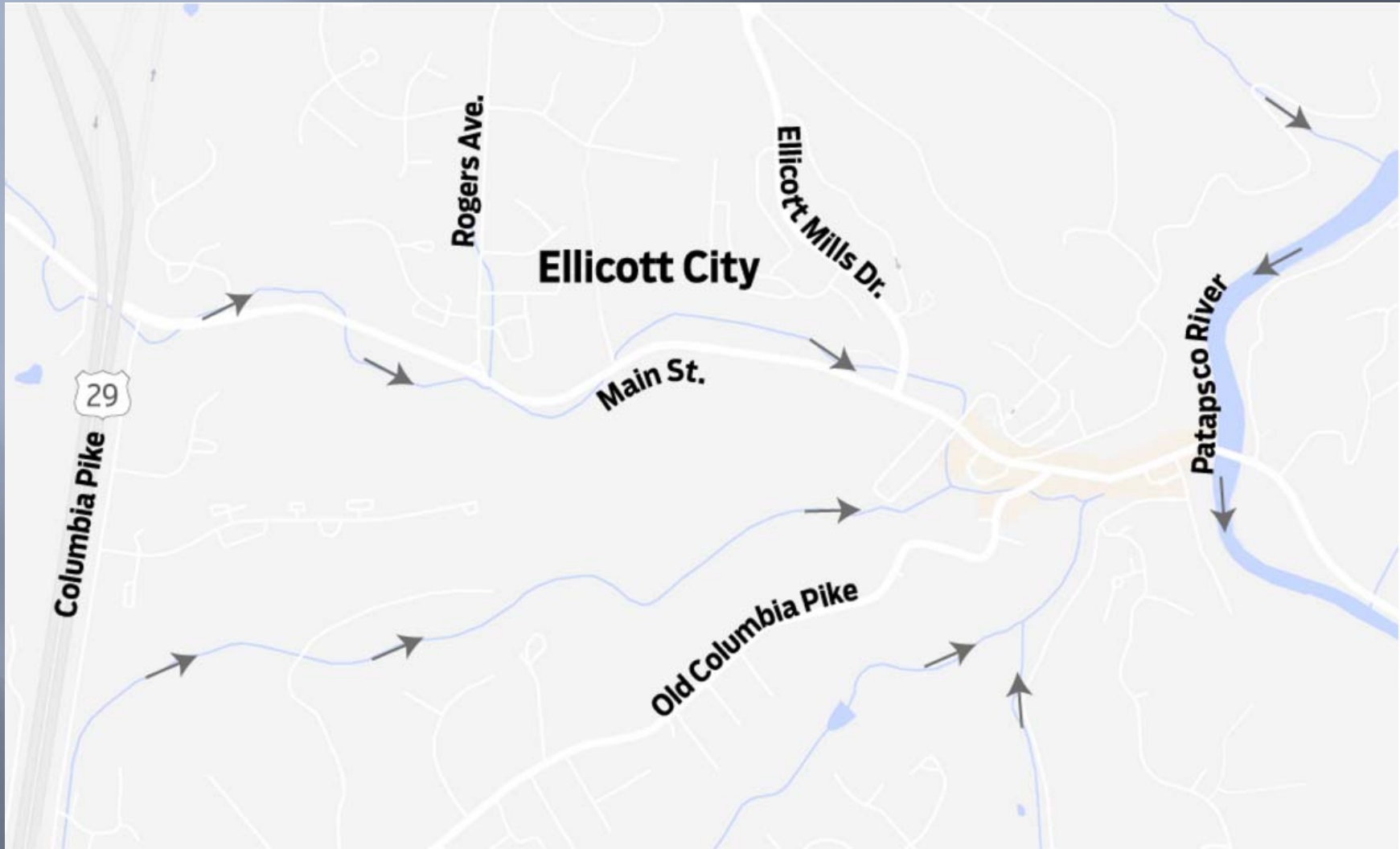
--- Graph Created (8:50AM Aug 2, 2016) —◆— Observed

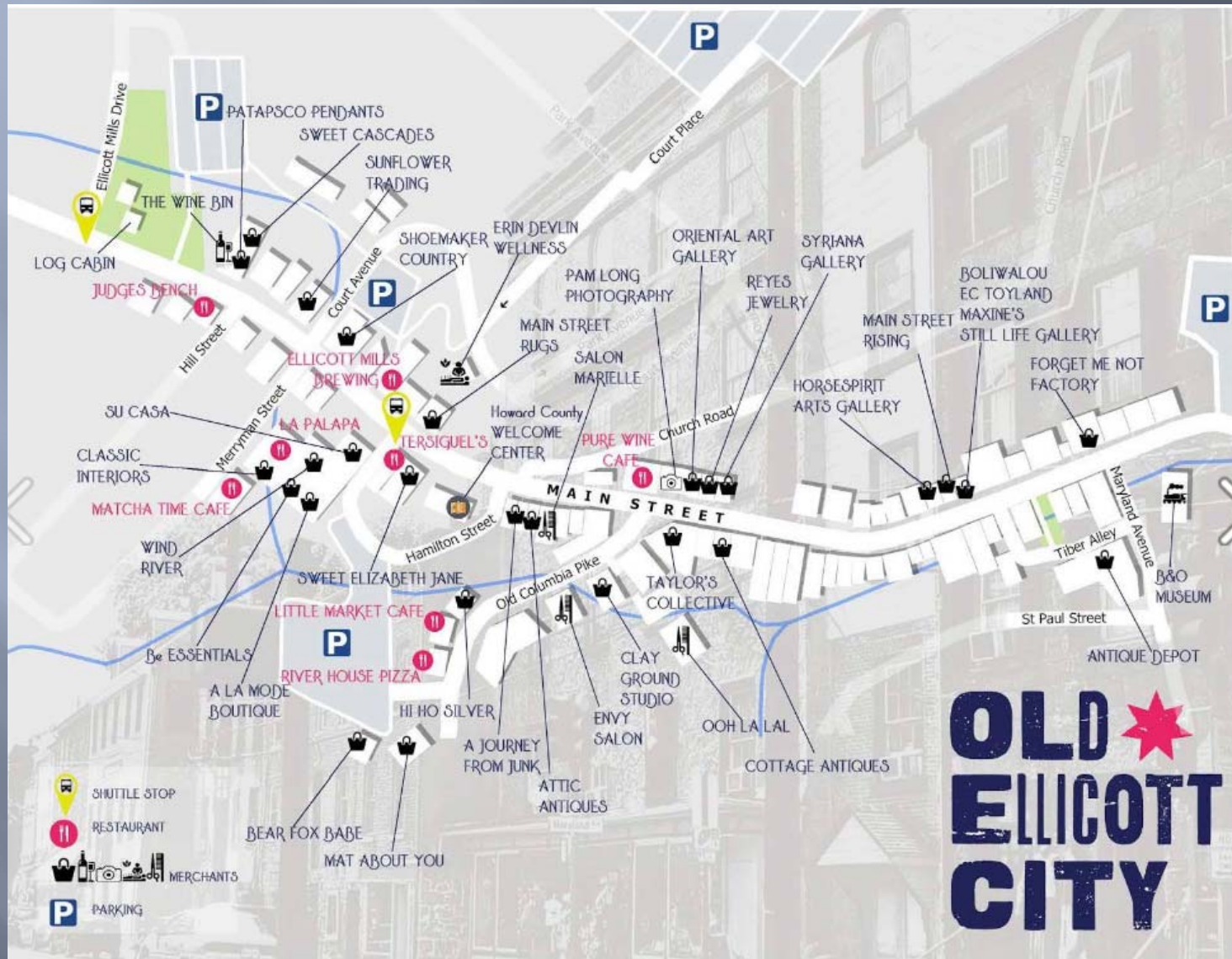
ERDM2(plotting HGIRG) "Gage 0" Datum: 8.5'

From USGS

July 30 Rainfall Totals

▣ Ellicott City	6.5"
▣ Sykesville	4.6"
▣ Pikesville	4.3"
▣ Catonsville	4.2"
▣ Columbia	4.2"
▣ Towson	3.5"
▣ Annapolis	1.5"

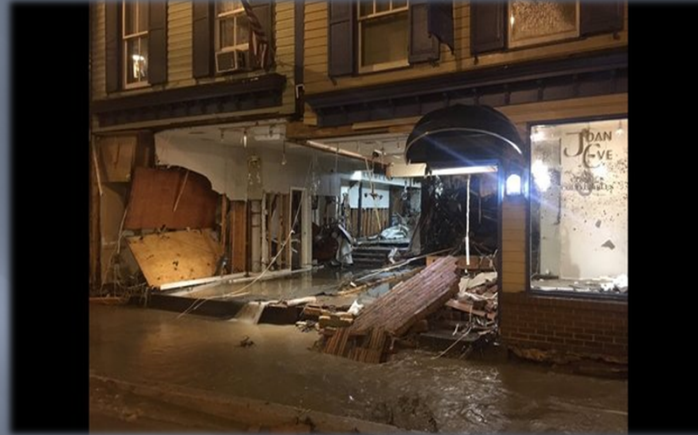




The Impact



The Aftermath











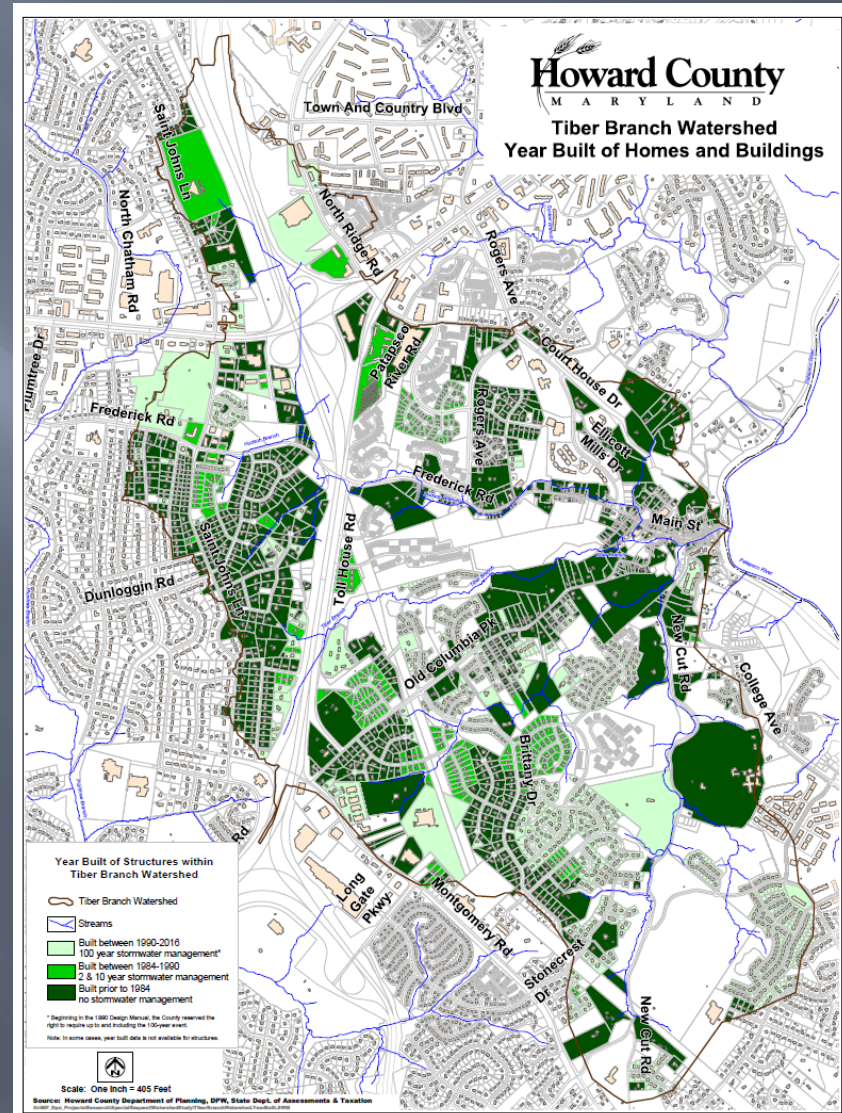






Current Affairs

- ▣ Engineering
- ▣ Economic
- ▣ Community



Future Challenges

- ▣ Climate change
- ▣ Retrofit infrastructure
- ▣ Historic Preservation
- ▣ Rebuild confidence
- ▣ Funding

Community Partnership



ELLCOTT CITY PARTNERSHIP PRESENTS

MAIN STREET MUSIC FEST

6 STAGES
60 BANDS
5TH ANNUAL
NOON - 11PM

A BENEFIT FOR HISTORIC ELLCOTT CITY

SATURDAY SEPT 24

TOAD the WET SPROCKET
KELLY BELL BAND
NIGHTHAWKS
JAH WORKS
CJ RAMONE
ALL MIGHTY SENATORS

MERRI WEATHER
 POST PAVILION COLUMBIA, MD

TICKETFLY.COM
 TICKETS \$12

FREE ADMISSION FOR CHILDREN UNDER 12

MERRIWEATHERMUSIC.COM MAINSTREETMUSICFEST.COM



#ECSTRONG

