

for the Rural Arkansas Community

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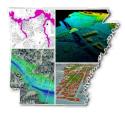
May 22, 2019 Cleveland, Ohio





Outline

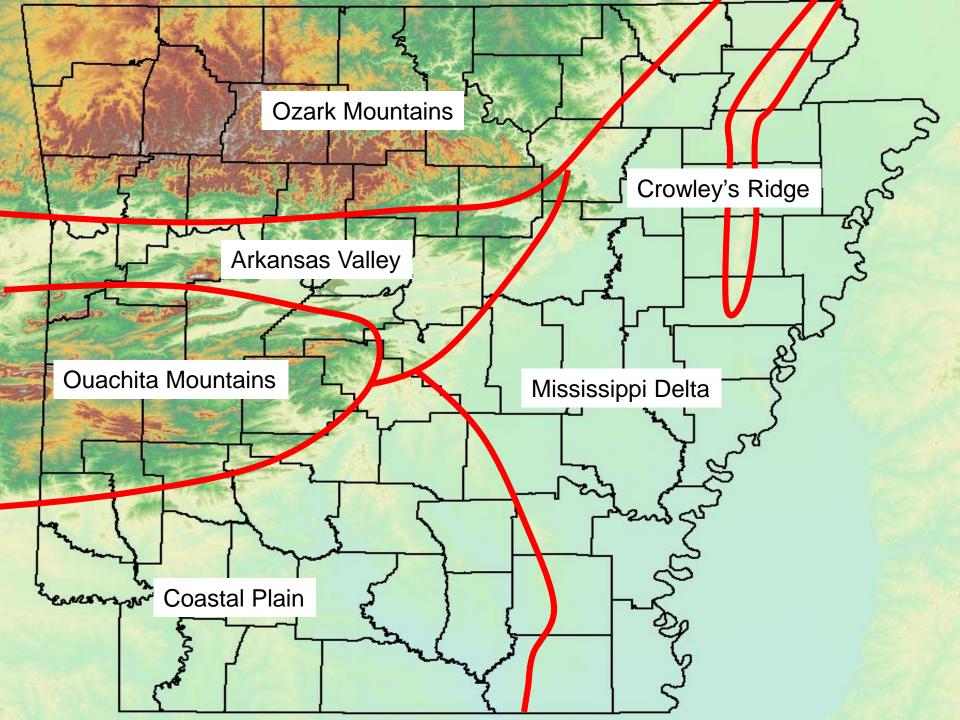
- Background Information
- Normal Risk MAP approach
- Special Project
 - Goals
 - Procedure
- Lessons Learned

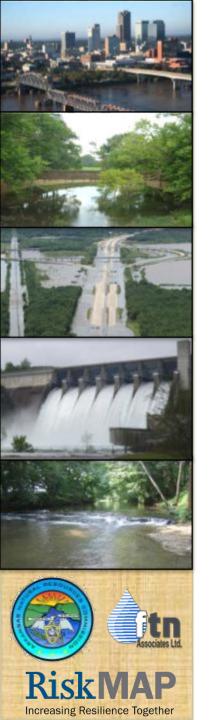


(Hiuska and Hawaii

Arkansas... Where are We?



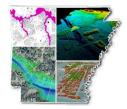


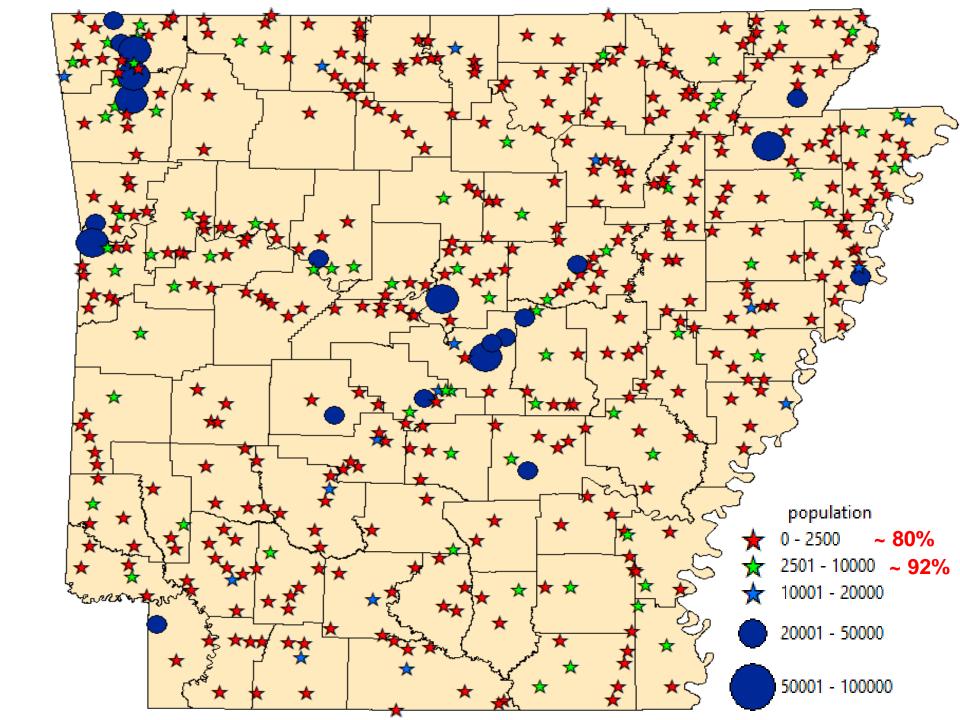


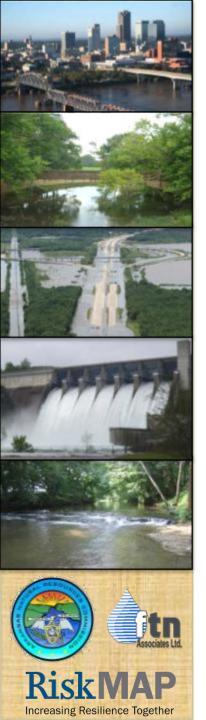
Arkansas...

Arkansas is rural...

- 500+ incorporated communities
- 75 Counties
- 3.014 Million in total population (smaller than NY and LA)
- 95%+ of land is Agriculture/Forestry







Normal Approach

- Outreach/meetings
 - Pre-Discovery
 - Discovery
 - Data & Product Development
 - Flood Risk Review Meeting

- Send out notifications
 - (emails, letters, phone calls)
- Follow-up on attendance





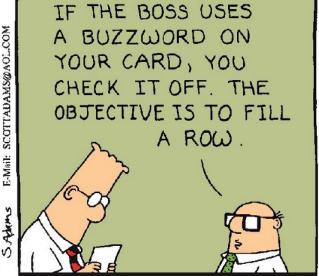


Normal Approach

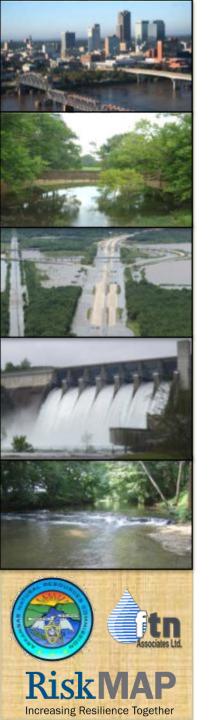
- At the meetings
 - Describe everything done
 - Show them the information

Everyone leaves happy!!









Normal Approach

Is it really being used?

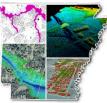
Not as much as it could be.

Do FPAs truly understand it?

From our view...some do, some don't.

Are we focusing only on the "haves"?
 Gravitate to those who are familiar w/ it.







The Special Project

- Invested in the products
 - BLEs, updated data, technology
- Needed a new approach
 - Usable across all levels
 - Big vs. small community
 - Technical vs Non-technical
 - CEOs vs. FPAs
 - Flexible to adjust
 - One size does not fit all!

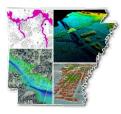


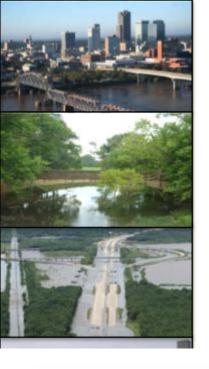


The Special Project

- Focused on using data
 - Hands on training
 - Workshops & Conferences
- Multiple ways to communicate
 - Google Earth
 - FEMA BLE Viewer
 - Traditional Workmaps

STEP BACK & SLOW DOWN

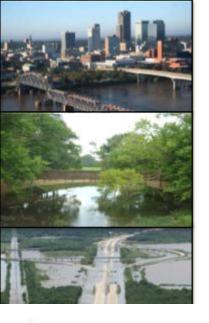




The Plan

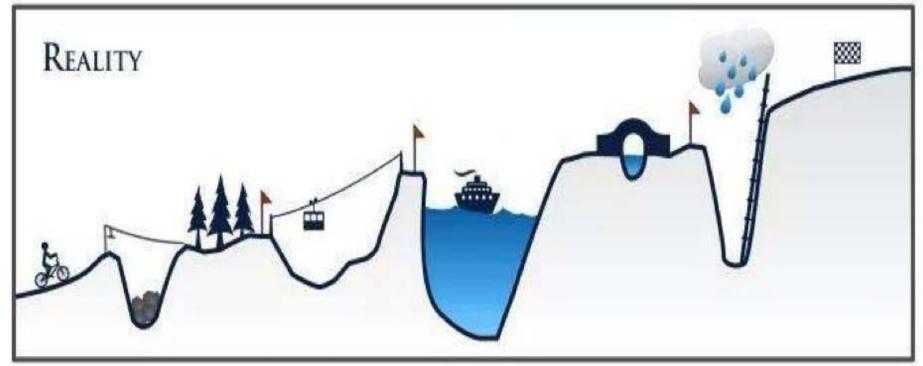
- 4 total workshops
 - Small, underserved communities
 - Morning Local Officials
 - Afternoon Local FPAs (interactive)

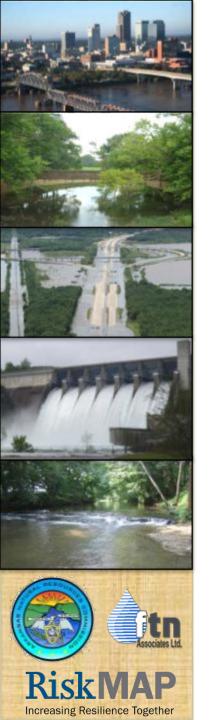




Reality

- Held 2 initial workshops
 - Lots of interest in holding workshops
 - Little attendance





The "REVISED" Plan

- Final 2 workshops
 - This time as part of State Sponsored
 FPA training (afternoon)
 - Had big and small communities
 - More hands-on
 - User filling out worksheets
 - Roll into 1 session, not all day
 - Provide quick guide to take home
 - Conduct survey before and after
 - Get input



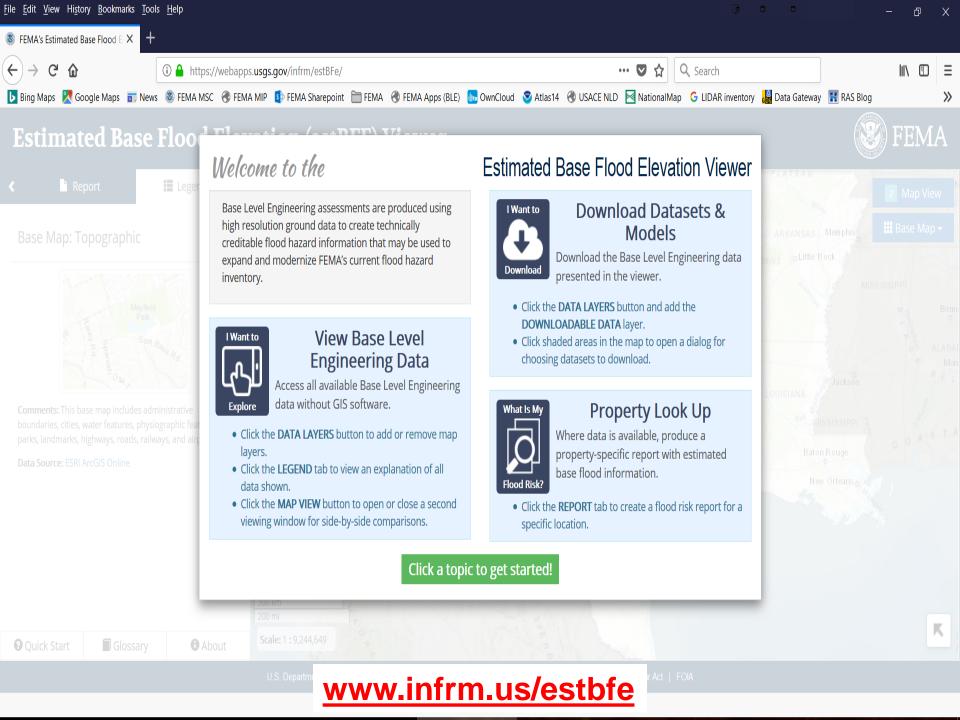


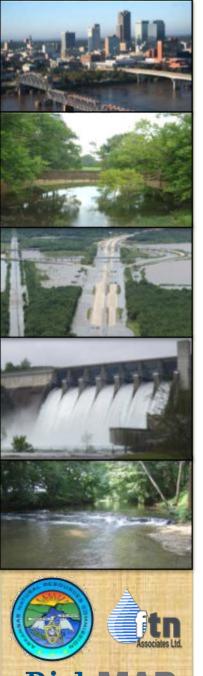
The "EXTENDED" Plan

 BLE Workshops included in 7 one-day FPA training workshops





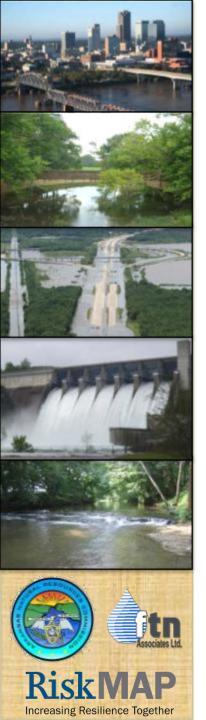




Increasing Resilience Together

Case Studies





Property Owner wants to build a structure in Humphrey.

Coordinates:

34.4228

-91.7046







Flood Event	Estimated Flood Depth*	Estimated Base Flood Elevation*			
1 Percent (100 Year)	3.2 feet above land surface	192.8 feet NAVD 1988			
0.2 Percent (500 Year)	3.5 feet above land surface	193.1 feet NAVD 1988			

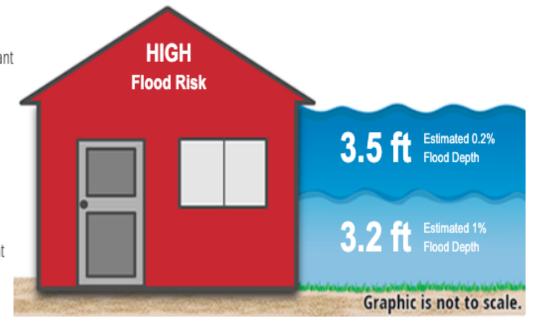
^{*} The information included in this report is based on the location marker shown in the map. Results are not considered an official determination.

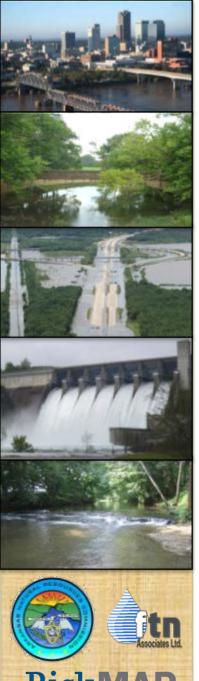
Information made available from the Estimated BFE Viewer needs to be accepted by local community officials to be used for insurance rating purposes.

Knowing Your Risk

Base Level Engineering data availability and analysis information is important because it can be used to:

- Inform floodplain management decisions and ordinance administration;
- Identify significant floodplain changes;
- Serve as base modeling for map revisions; and
- Support the Zone A BFE information for a Letter of Map Amendment (LOMA) request.





Increasing Resilience Together

Example 2

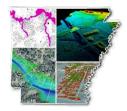
Property Owner wants to build a home, NOT in Zone A, but prone to flooding.

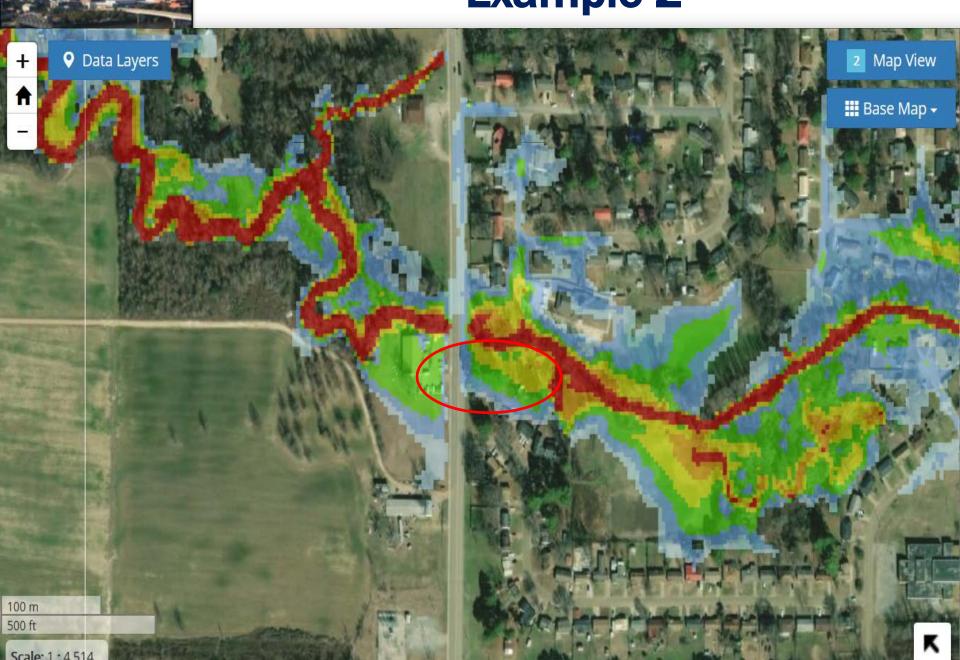
34.988205 -90.781277

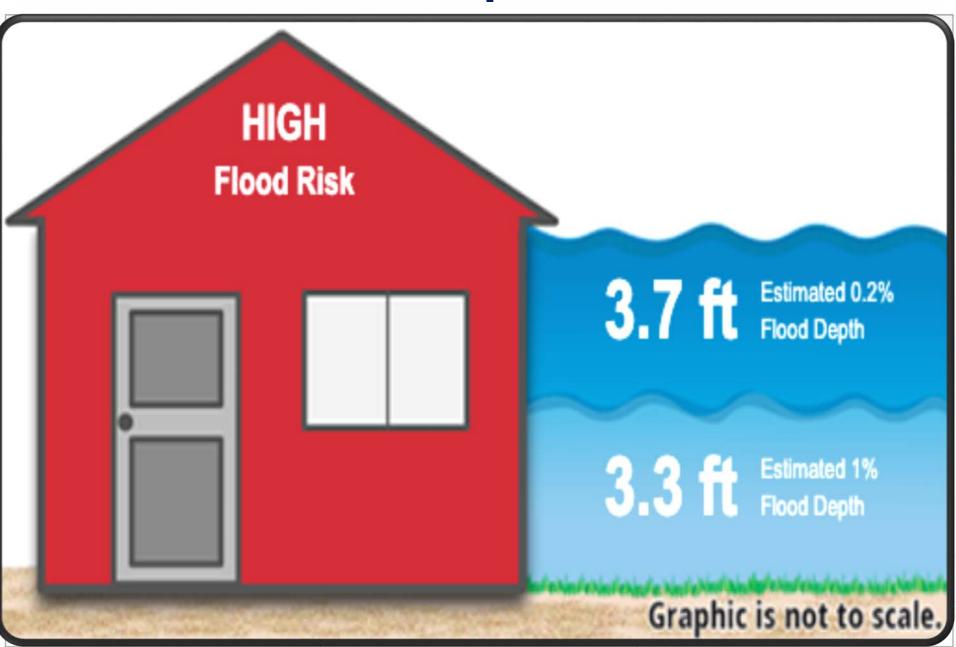




- What do you do?
- What does the homeowner need?
- How can the BLE Viewer help?
- Any other tools that can help?





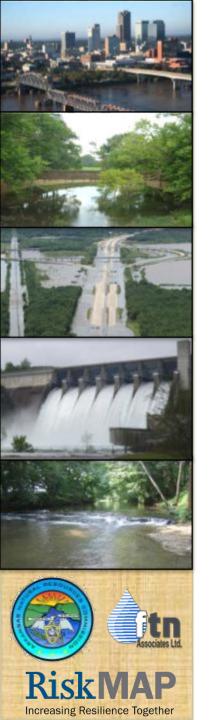


Example Worksheet

Example No.	Town:						
Coordinates:							
STEP 1: FLOODPLA	IN DETERMINATION						
Is the property in t	he floodplain?	YES	NO				
Which zone?							
What is the BFE?		Canno	ot be dete	rmin	ed		
STEP 2: BASE LEVEL	. ENGINEERING						
Is the property loca	ted within a BLE <u>watershed</u> ?)	Y	ES	NO		
Is the property loca	ted within the BLE floodplair	<u>1</u> ?	Y	ES	NO		
If so, what is th	e estimated BFE?						
If so, what is th	e depth of flooding?			_			

RECOMMENDATIONS

What are your recommendations for the builder/property owner?

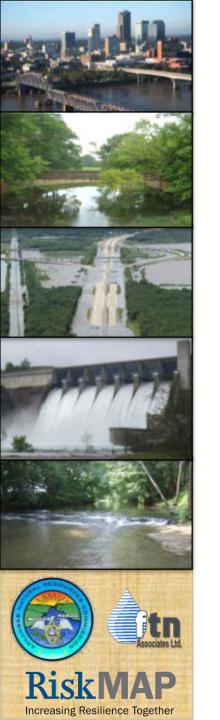


Other Examples:

Developer wants to develop a large area for residential homes and new businesses.

35.2186 -90.2139





LESSONS LEARNED

 Just because it's there, doesn't mean its used or understood.

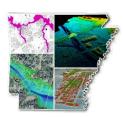
Back to the Basics!!

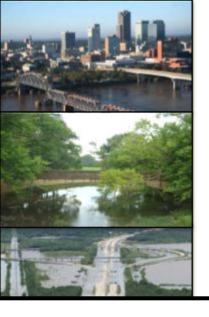
 It's a process & still being developed.

<u>Patience !!</u>

• Just because people nod, don't assume anything.

You know the saying!!





OTHER RESULTS

Four communities have now explicitly incorporated BLE data into their Flood Damage Prevention Codes.

- (b) Where Base Level Engineering is available:
 - (1) Base Level Engineering data shall be reviewed and reasonably used in FEMAidentified Special Flood Hazard Areas where base flood elevation and floodway data have not been identified and in areas where FEMA has not identified Special Flood Hazard Areas.
 - (2) Base flood elevations and designated floodway boundaries on FIRMs and in Flood Insurance Studies shall take precedence over base flood elevations and floodway boundaries delineated by Base Level Engineering if such source shows reduced floodway widths and/or lower base flood elevations.
 - (3) Base Level Engineering data shall be reasonably used if such source shows increased base flood elevations and/or larger floodway areas than are shown on FIRMs and in Flood Insurance Studies.



Questions

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