

ICWP October 9, 2019

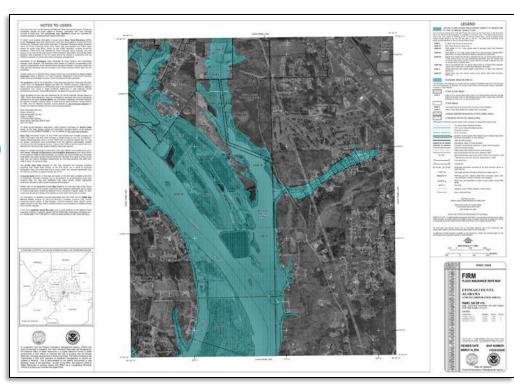


Where we've been...



Map Modernization Program

- **▶**2000-2010
- ► Statewide Plan (All 67 counties)
- ► Limited new analyses
- ► Map digitization; GIS database development
- ► Datum shift from NGVD29 to NAVD88



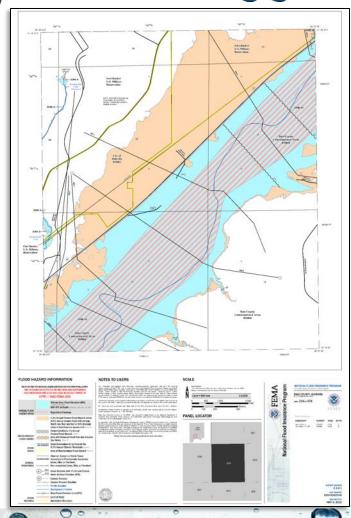


...where we are now



Risk MAP Program

- ▶2010-present
- ► Watershed-based approach
- ► Mitigation action identification and advancement
- ► Increased risk awareness
- ► Non-Regulatory products



Risk MAP



FEMA's Risk Mapping, Assessment, and Planning (MAP) Program

► Focuses on products beyond the traditional Flood Insurance Rate Map

- ► Supports community resilience by
 - Providing data,
 - Building partnerships, and
 - Supporting long-term hazard mitigation planning
- Delivers quality flood data that
 - Increases public awareness and
 - Leads to action that reduces risk to life and property



Risk MAP



FEMA's Risk Mapping, Assessment, and Planning (MAP) Program

- ► Watershed-based approach
 - ► Uses HUC-8 watershed unit
- ➤ Complete, consistent, and connected flood engineering analysis within a watershed
- ► Eliminate inconsistencies
 - ➤ All models must tie-in within 0.5 feet (within watershed and with neighboring watersheds)



Alabama Risk MAP Program





Alabama CTP Production Model

- Work typically performed locally
- Establish relationships with local stakeholders
- Local knowledge including needs and leverage opportunities
- More customized local solutions
- ► Increases local involvement in NFIP related activities

Alabama Risk MAP Goals

- Increase focus on risk assessment and planning
- Continue partnerships with Federal, State, and Local Agencies
- Acquire and utilize high accuracy topographic data
- Deliver high quality risk products and datasets

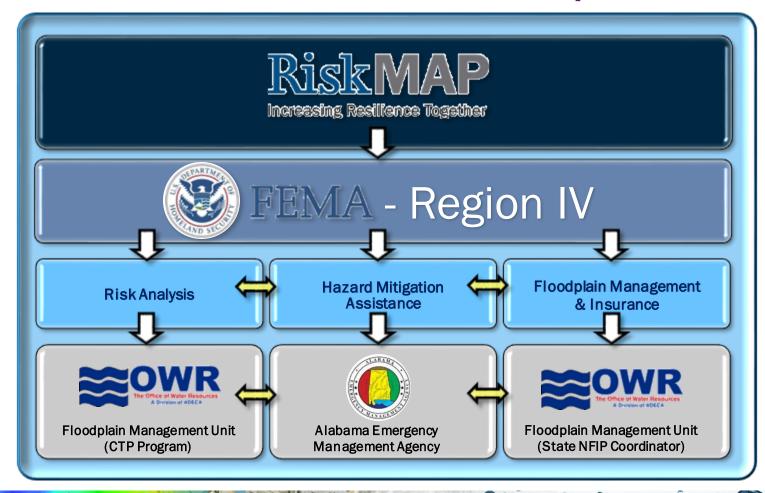
Benefits of the program

- Help communities make better decisions on development
- Provide online resource for citizens to learn about their flood risk



Federal & State Partnerships





Federal & State Partnerships



External Agencies

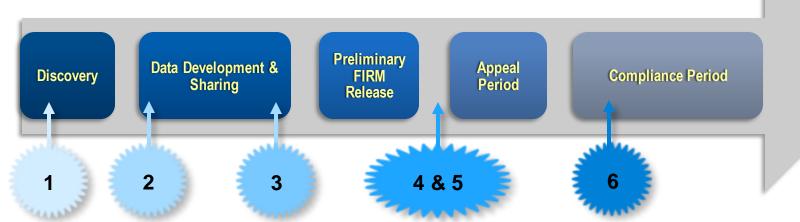




Risk MAP Project Timeline



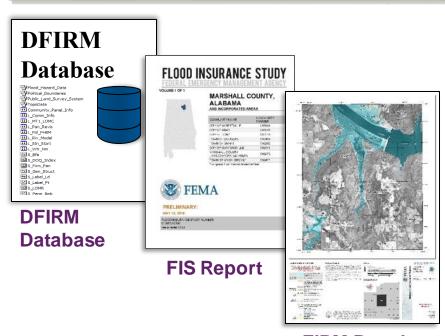
- Discovery Meeting
- 2. Project Kickoff Meeting
- 3. Flood Risk Review Meeting
- 4. Preliminary DFIRM Community Coordination Meeting (PDCC)
- 5. Open House
- 6. Resilience Meeting



Risk MAP Products



Traditional Regulatory Products



FIRM Panels

- ► Have undergone due process
- ► Legal documents used to determine flood insurance rates
- ► Delineate Special Flood Hazard Areas

Non-Regulatory Products



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- ► Additional set of products for supporting mitigation activities in communities.
- ▶ Not used for official actions under NFIP

Alabama Risk MAP Projects





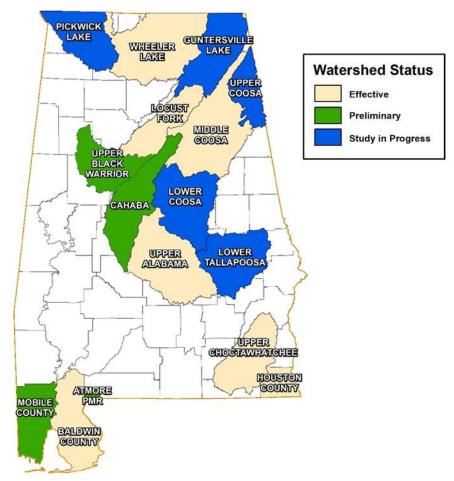
- Houston County
- · Upper Alabama Watershed
- Middle Coosa Watershed
- Upper Choctawhatchee Watershed
- Wheeler Lake Watershed
- · Locust Fork Watershed
- Baldwin County

Preliminary FIRMs Issued

- Mobile County
- Cahaba Watershed
- City of Atmore PMR
- Upper Black Warrior Watershed

Study In Progress

- Guntersville Lake Watershed
- Pickwick Lake Watershed
- Upper Coosa Watershed
- Lower Coosa Watershed
- Lower Tallapoosa Watershed



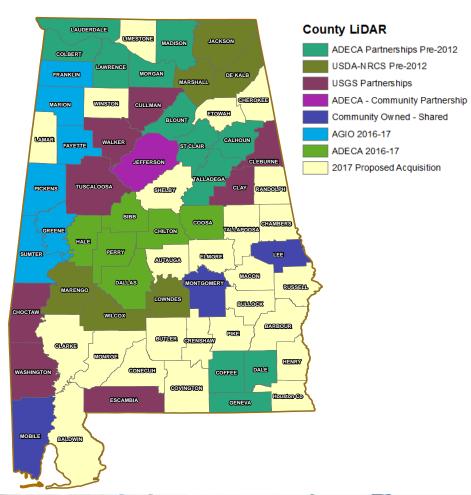


LiDAR Availability

The Office of Water Resources
A Division of ADECA

- ► Community & Agency Partnerships
- ► ADECA, FEMA, AGIO, ALDOT, AL Revenue, USGS, NRCS
- ► Need Quality Level 3 (QL3) or better

Statewide LiDAR by 2019!







Understanding Your Flood Risk

By understanding how your flood risks have changed, you can make informed decisions to reduce them.

FEMA developed your Risk MAP products based on:

- ▶ Data gathered from you during the "Discovery" process
 - ► Community input
 - ► Mitigation plans
- ► Analyses associated with the development of the flood risk products
 - ▶ Engineering
 - ► Flood hazard mapping
 - Risk assessment

Community Outreach



- ► Targeted outreach to only those affected by changes to FIRMs
 - OWR can extract addresses from GIS for targeted outreach
- ► Community Open Houses
 - OWR and FEMA personnel available to assist communities
- ► Advertisement of Preliminary FIRMs
 - Community websites
 - Community social media pages
- ► OWR developing digital info cards



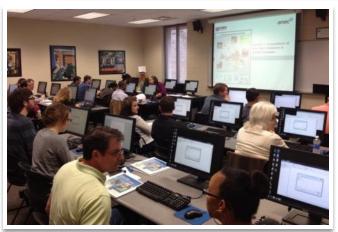
Educating Local Stakeholders



Trainings and Resources

- ► Alabama Flood Mapping Website
- ► Risk MAP Tools Training
- ► LOMR Training
- ➤ YouTube Channel
- ► Mitigation Tools Training
- L-273 Course
- ► Floodplain Management 101
- ► CRS Workshops
- ➤ Post-Flood Recovery Guide







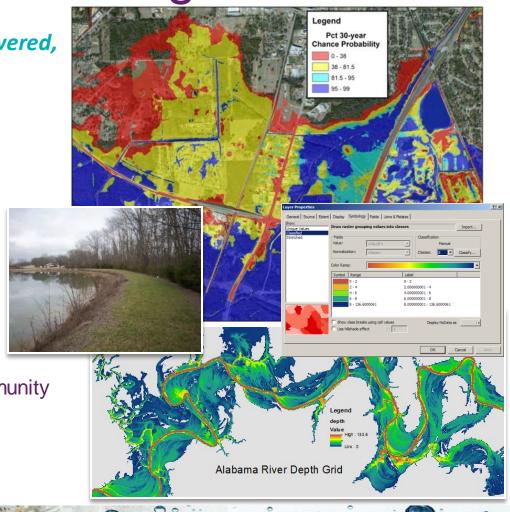
Risk MAP Tools Training



The goal is to leave local officials empowered, informed, and ready to take action.

Provided prior to release of flood risk products for watershed projects
Topics Covered:

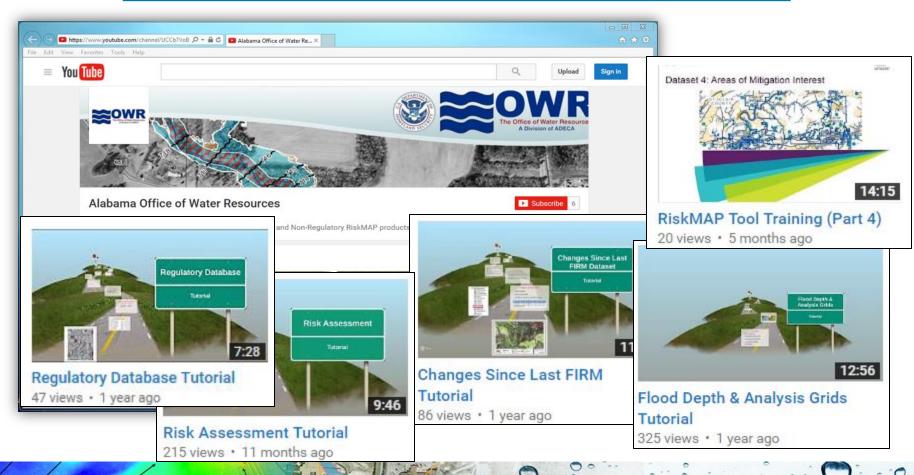
- Risk MAP Database Tutorial
- ► Flood Depth and Analysis Grids
- ► Flood Risk Assessment
- Areas of Mitigation Interest
- ► Added Value:
 - ► Viewing & manipulating data
 - ► Identifying flood risk change in community
 - Easily identify mitigation areas



OWR YouTube Channel

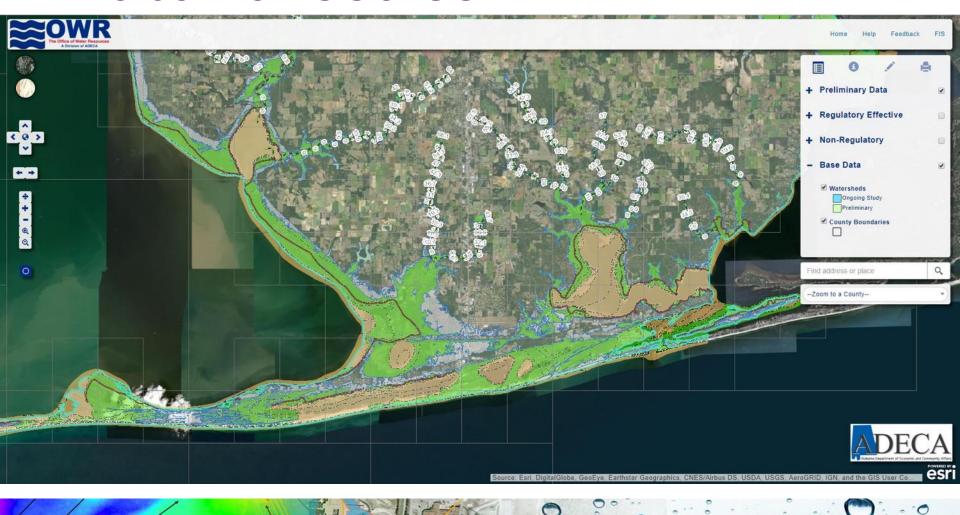


https://www.youtube.com/channel/UCCb7VoBywJiRG7vSXstEwXQ



Alabamaflood.com





Alabama Flood Mapping Website Columbia Alabama Flood Mapping Website

The goal is to provide a more efficient means of reviewing preliminary data and retrieving effective data as well as determining areas for potential mitigation actions.

Website contains:

- Regulatory Data
 - ► FIRMs
 - DFIRM database
- ► Non-Regulatory (Risk MAP) Products
 - ▶ Changes Since Last FIRM
 - ▶ Depth and Probability Grids
 - ► Flood Risk Assessment
 - ► Areas of Mitigation Interest

Features:

- Preliminary and Effective Data
- Address Lookup
- Search and Identify
- Measure Tool
- ► Print Options
 - ► PDF
 - **▶** JPG
 - ► PNG, etc.

https://AlabamaFlood.com/



Project Contacts



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Questions?



