



***FEMA's Tools for Floodplain Managers and
Administrators
May 22, 2019***



FEMA

Introductions

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Deputy Program Manager for FEMA
Risk MAP Customer and Data
Services



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Floodplain Manager and Administrator Tasks

“What is the Flood Risk, Zone, or Elevation for this location?”

- **Property Lookup**
 - **Development proposal**
 - **Request for information**
 - **Solicitation of Views**
 - **Community Assistance Visits**
- **Search for effective flood hazard information by address or coordinates**

Floodplain Manager and Administrator Tasks

msc.fema.gov



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FEMA Flood Map Service Center: Welcome!



Navigation



Search



Languages

MSC Home

MSC Search by Address

MSC Search All Products

▼ MSC Products and Tools

Hazus

LOMC Batch Files

Product Availability

MSC Frequently Asked Questions (FAQs)

MSC Email Subscriptions

Contact MSC Help

Looking for a Flood Map? [?](#)

Enter an address, a place, or longitude/latitude coordinates:

Search

Looking for more than just a current flood map?

Visit [Search All Products](#) to access the full range of flood risk products for your community.



About Flood Map Service Center

The FEMA Flood Map Service Center (MSC) is the official public source for flood hazard information produced in support of the National Flood Insurance Program (NFIP). Use the MSC to find your official flood map, access a range of other flood hazard products, and take advantage of tools for better understanding flood risk.

FEMA flood maps are continually updated through a variety of processes. Effective information that you download or print from this site may change or become superseded by new maps over time. For additional information, please see the [Flood Hazard Mapping Updates Overview Fact Sheet](#)



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Enter an address, place, or coordinates: ?

19061

Search



Whether you are in a high risk zone or not, you may need [flood insurance](#) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

Learn more about [steps you can take](#) to reduce flood risk damage.

Search Results—Products for **UPPER CHICHESTER, TOWNSHIP OF**

[Show ALL Products »](#)

The flood map for the selected area is number **42045C0179F**, effective on **11/18/2009** ?

DYNAMIC MAP



PRINT MAP/
FIRMette

MAP IMAGE



DOWNLOAD
FIRM PANEL

Changes to this FIRM ?

- Revisions (0)
- Amendments (3)
- Revalidations (1)

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette.

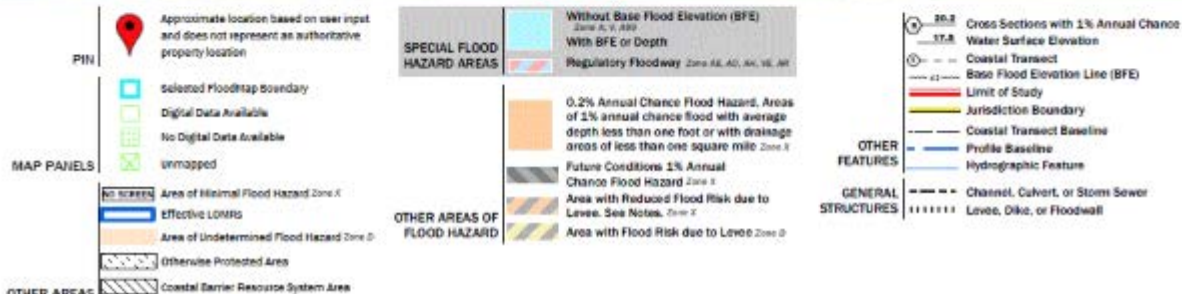
[Go To NFHL Viewer »](#)



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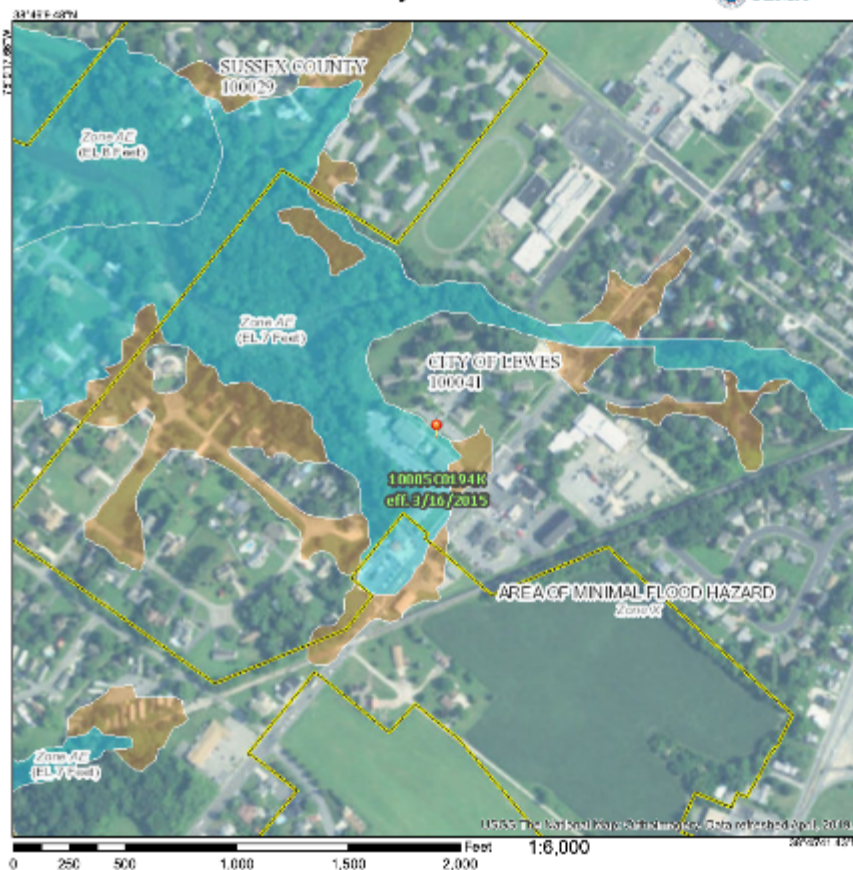


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National Flood Hazard Layer FIRMette



Legend

GET THE STORY FOR SPECIAL FLOOD HAZARD AREAS MAP FOR FIRMETTE LAYER

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A99
	With BFE or Depth Data (A99, A99, A99)
	Regulatory Boundary

OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 5% annual chance flood with average depth less than one foot or with average depth of less than one foot and less than 2
	Proven Conditions 1% Annual Chance Flood Hazard (Zone A)
	Area with Reduced Flood Risk due to Levee (See Notes, Zone A)
	Area with Flood Risk due to Levee (Zone A)

OTHER AREAS	Area of Minimal Flood Hazard (Zone A)
	Effective (Zone A)
	Area of Undetermined Flood Hazard (Zone A)

GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Roadway

OTHER FEATURES	Coastal Boundary with 1% Annual Chance Water Surface Elevation
	Coastal Boundary
	Base Flood Elevation Line (BFE)
	Limit of Flood
	Jurisdiction Boundary
	Coastal Traversal Boundary
	Profile Boundary
	Hydrographic Feature

MAP PANELS	Digital Data Available
	No Digital Data Available
	Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authorized or properly localized.

This map complies with FEMA standards for the use of digital flood maps if it is not void as described below. The basemap shows compliance with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was updated on 12/22/2018 at 14:00:00 and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is valid if the user or more of the following group elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, map creation conditions, NFHL panel number, and FEMA effective date. Map images for unmapped and undetermined areas cannot be used for regulatory purposes.



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msc.fema.gov/nfhl

Welcome to the National Flood Hazard Layer (NFHL) Viewer!

The National Flood Hazard Layer (NFHL) dataset represents the current effective flood data for the country, where maps have been modernized. It is a compilation of effective Flood Insurance Rate Map (FIRM) databases and Letters of Map Revision (LOMRs). The NFHL is updated as studies go effective. For more information, visit FEMA's Map Service Center (MSC).

The default base map conforms to FEMA's specification for horizontal accuracy. This map should be considered the best online resource to use for official National Flood Insurance Program (NFIP) purposes when determining locations in relation to regulatory flood hazard information. If a different base map is used with the NFHL, the accuracy specification may not be met and the resulting map should be used for general reference only, and not official NFIP purposes. For FEMA's policy on the use of digital flood hazard data for NFIP purposes see [Standards for Flood Risk Products](#).

Questions? [Contact a map specialist](#).

☐ Do not show this splash screen again.

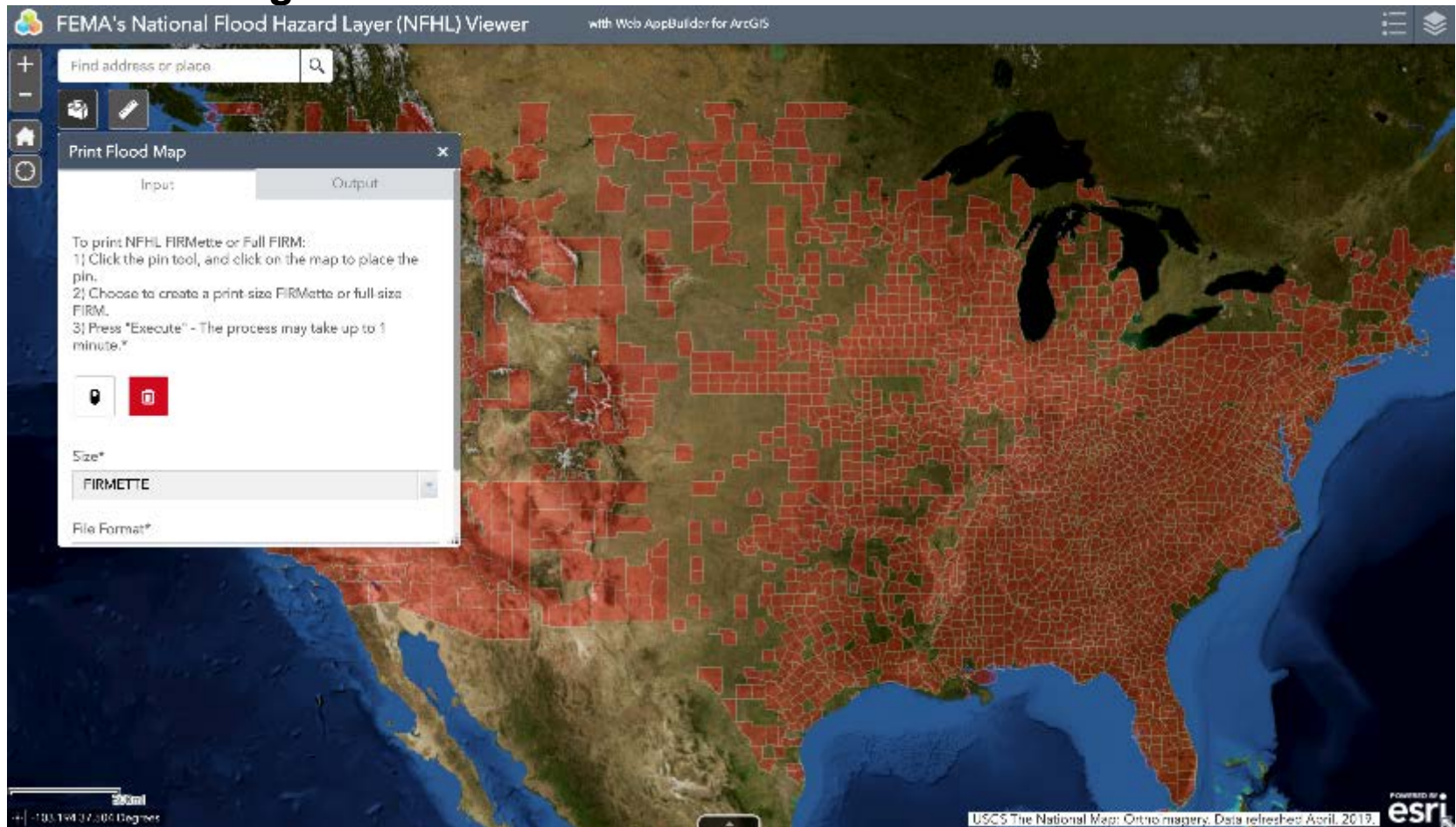
OK



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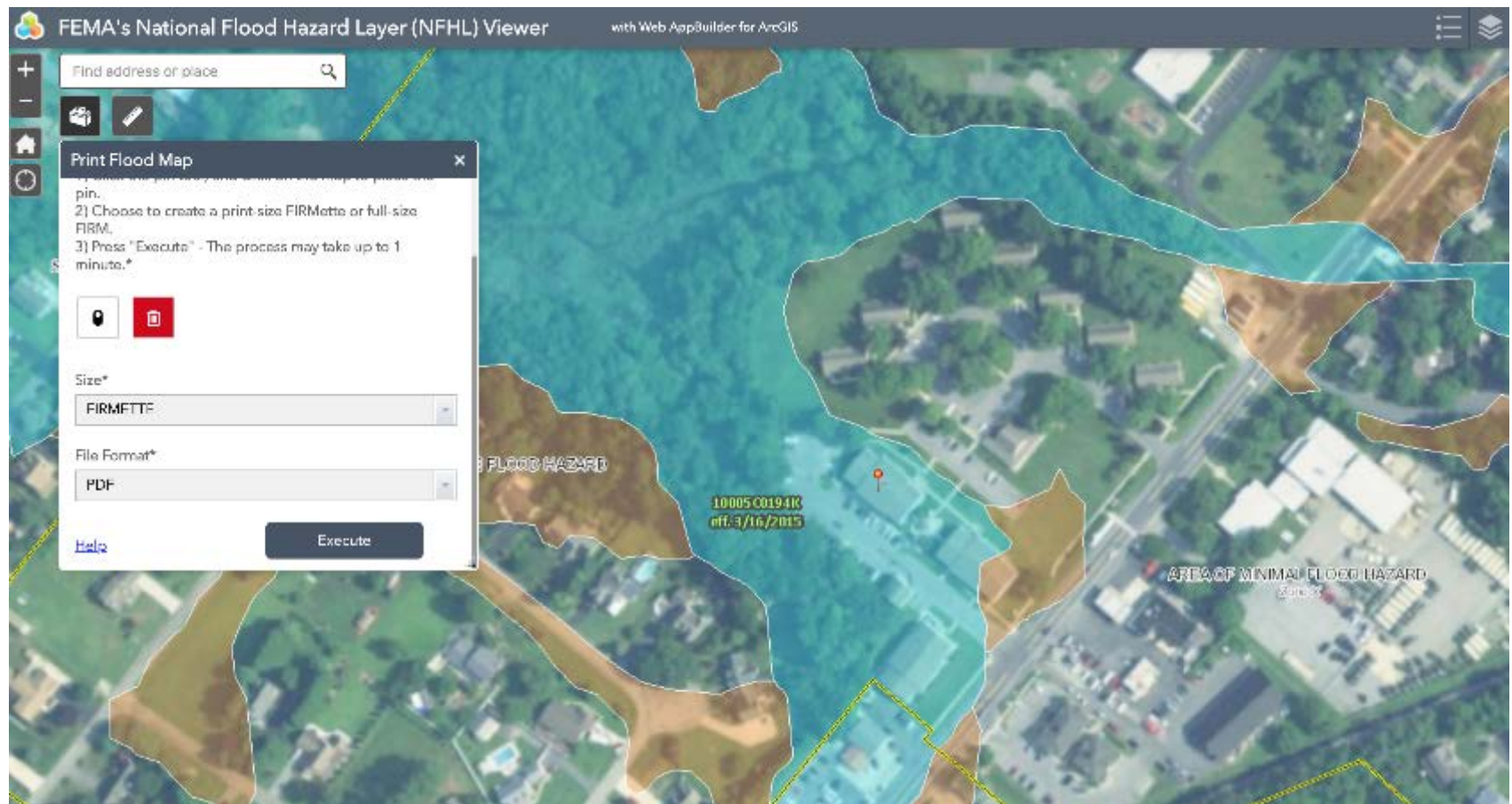
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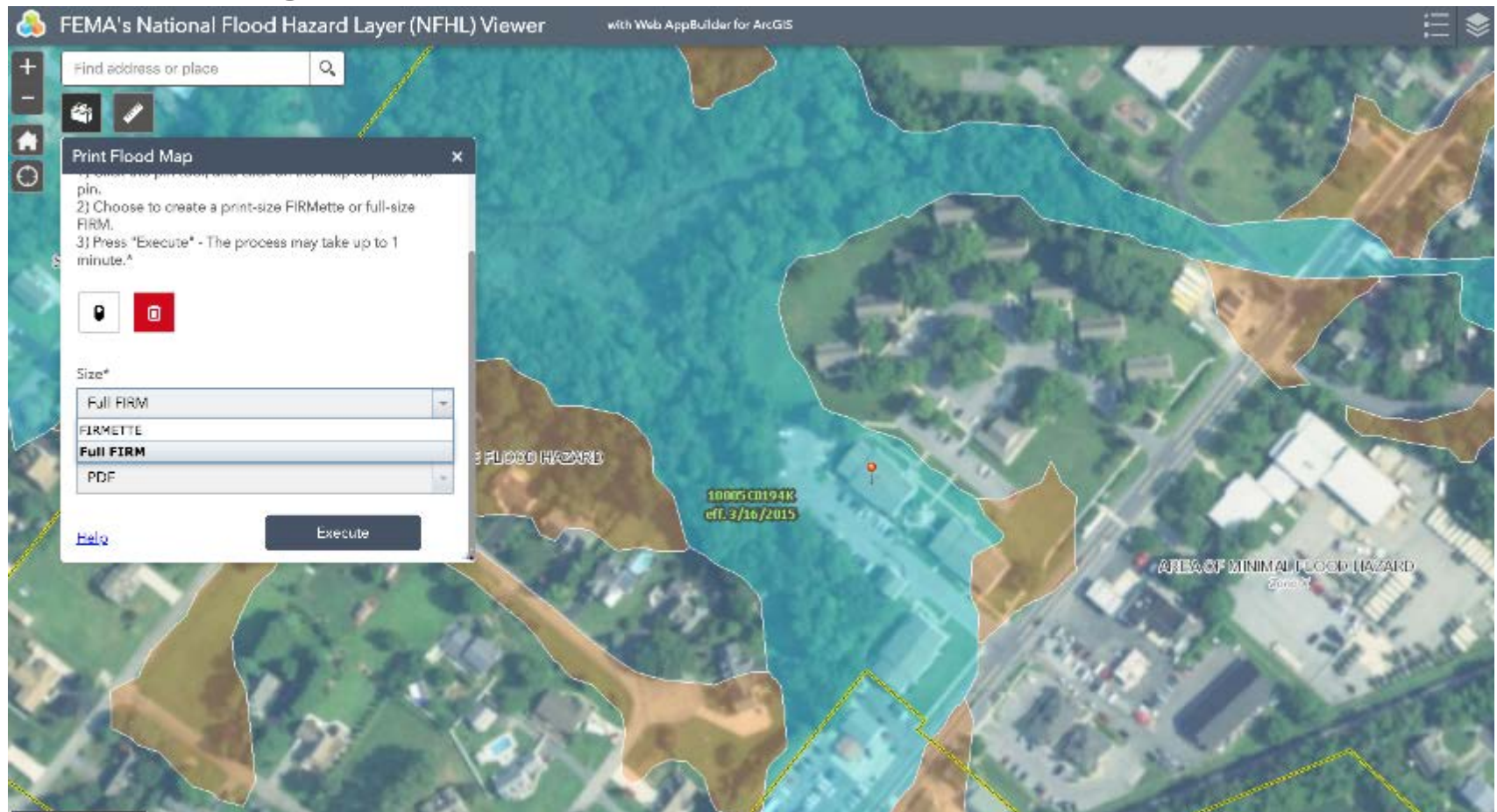
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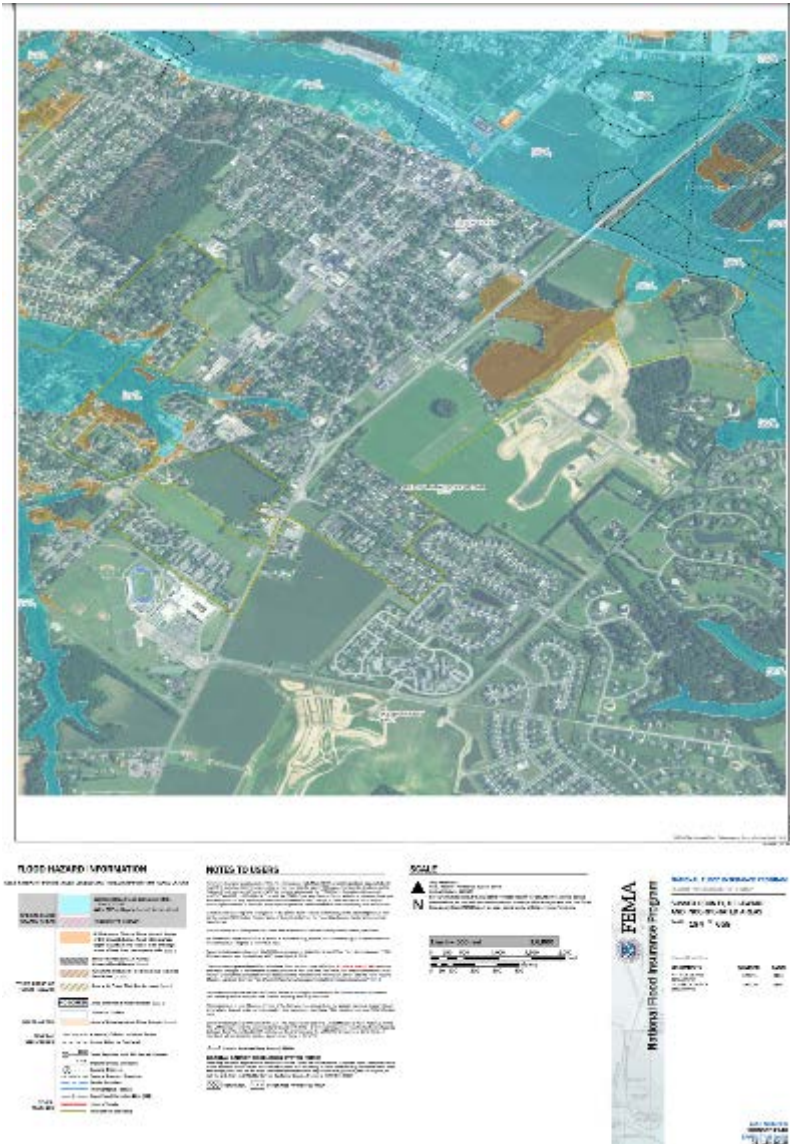
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“What products have been issued for my jurisdiction?”

- **Tracking LOMC**
 - **Latest GIS data**
- **Subscribe to the MSC for a location for any product**

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Navigation

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LOMC Batch Files

Product Availability

MSC Frequently Asked Questions (FAQs)

MSC Email Subscriptions

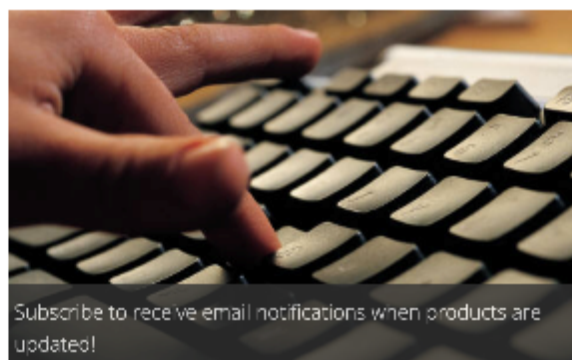
Contact MSC Help

FEMA Flood Map Service Center: Email Subscriptions: Sign In

Product Subscriptions on the FEMA Flood Map Service Center

The subscriptions feature enables users to create and manage automated email notifications for when new products are posted to the MSC. Subscriptions are configurable by geography and product type, and newly available products that match subscription criteria may be downloaded directly through the Manage Email Subscriptions page. Subscriptions are free of charge and may be created, edited, or discontinued at any time. They are particularly useful for state, county and community officials who wish to be notified whenever new information is available for their jurisdiction of interest.

Using the subscriptions feature requires the creation of a subscriptions account. To get started, please select the **'New User? Create a profile now!'** option below.



Login

Email Address

Password

[Forgot Password?](#)

Login

[New User? Create a profile now!](#)

Would you like to receive Map Service Center announcements via email?

FEMA provides a free email service that sends out notifications when new information is available about a selected topic. This



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Create Email Subscription

Select the location for which you would like to receive notifications when new products are posted to the MSC. Once you have made your choices, select "Save Email Subscription." You may subscribe to one or more types of products associated with a specific Community, County, State or entire FEMA Region. You may create multiple subscriptions. You may select a state only for a statewide subscription or a state and county for a countywide subscription. Note: The "All Jurisdictions" option within the community pull-down is not currently functioning. For a countywide subscription, do not choose a community.

I want to receive email subscriptions for:

State

County

Community

- OR -

Region

I want to receive the following products:

- ☐ Final Regulatory Products
- ☐ Pending FIRM Panels
- ☐ Pending FIS Reports
- ☐ Pending FIRM Database
- ☐ NFHL Data
- ☐ LOMC
- ☐ LOMR
- ☐ LOMA
- ☐ Revalidations
- ☐ Preliminary Regulatory Products
- ☐ Flood Risk Products

Save Email Subscription

Cancel



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“How was the BFE determined for this location?”

- **Model Lookup for Analysis of Flood Hazards**
- **Use the Mapping Information Platform (MIP) Flood Risk Study Engineering Library (FRiSEL) for study data from ~2006 - Present.**
- **The Engineering Library has been digitized, data pre-2006 available by request**

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hazards.fema.gov

Mapping

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[User Guide](#) (Download Adobe Acrobat Reader).
[Engineering Library Data Guide](#).
[Need Assistance or see an issue with the data?](#)

Flood Risk Study Engineering Library

Keyword(s) Search ?

Go

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Last Updated: Wednesday, 22-May-2019 6:14 AM ET

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Go

 **Advanced Search** ?

State

FEMA Case Number

County

Effective Date From

Community Name

Effective Date To

Type of Data Product

[+ More Options](#)

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User Guide (Download Adobe Acrobat Reader).
Need Assistance or see an issue with the data?

FEMA Case Number: 11-09-0868S - Hydraulic (Studies)

FEMA Case Number: 11-09-0868S
Project ID/Name: Placer CW, Placer Co. CA
Type of Data Product: Hydraulic (Studies)
Effective Date: 08/10/2015
Date Uploaded: 08/10/2015
Project CID(s): 06061C-Placer County-wide
Product CID(s): 06061C-Placer County-wide

[Back to Search Results](#)

118 Files Found

[Download All](#)

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[Help with this page.](#) ?

- ☐ Auburn_Ravine/Simulations/AuburnRavine.g02.gml
- ☐ Auburn_Ravine/Simulations/AuburnRavine.g02
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f14
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f13
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f12
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f11
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f10
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- ☐ Auburn_Ravine/Simulations/AuburnRavine.f08
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f07
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f06
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f05
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f04
- ☐ Auburn_Ravine/Simulations/AuburnRavine.f03



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“How is the map changing for my house?”

- **Proposed Map Changes – Preliminary**
- **Upcoming Map Changes - Pending**
- **View Proposed and upcoming map changes in the Flood Map Changes Viewer**
- **View Changes Since Last FIRM (CSLF)**
- **Create a report showing the proposed change as compared to the effective data with the Preliminary Map Comparison Tool**



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msc.fema.gov/fmcfv

Welcome to the Flood Map Changes Viewer!

The Flood Map Changes Viewer (FMCV) includes the following: [preliminary National Flood Hazard Layer](#), [preliminary Changes Since Last FIRM \(CSLF\)](#), the [Preliminary Map Comparison Tool](#), and the [pending National Flood Hazard Layer](#), and the [National Flood Hazard Layer \(NFHL\)](#). The consolidated FMCV provides a single location to access flood hazard data across several data life stages and facilitates a better understanding of potential changes coming to flood hazard risks. For more information on using the Preliminary Map Comparison Tool in the FMCV, please visit the [Preliminary Map Comparison Tool Tutorial](#) page.

Preliminary data are for review and guidance purposes only and cannot be used to rate flood insurance policies; they are not used to determine whether there is a mandatory flood insurance purchase requirement. By viewing preliminary data and maps, the user acknowledges that the information provided is preliminary and subject to change. Preliminary data, including new or revised FIRMs, FIS reports, and FIRM Databases, are not final and are presented on the MSC as the best data available for a particular area at this time. FEMA will remove the preliminary data for a particular area once effective data are available.

Questions? Contact the Map Specialists at the [FEMA Map Information eXchange \(FMIX\)](#).

☐ Do not show this splash screen again.

OK

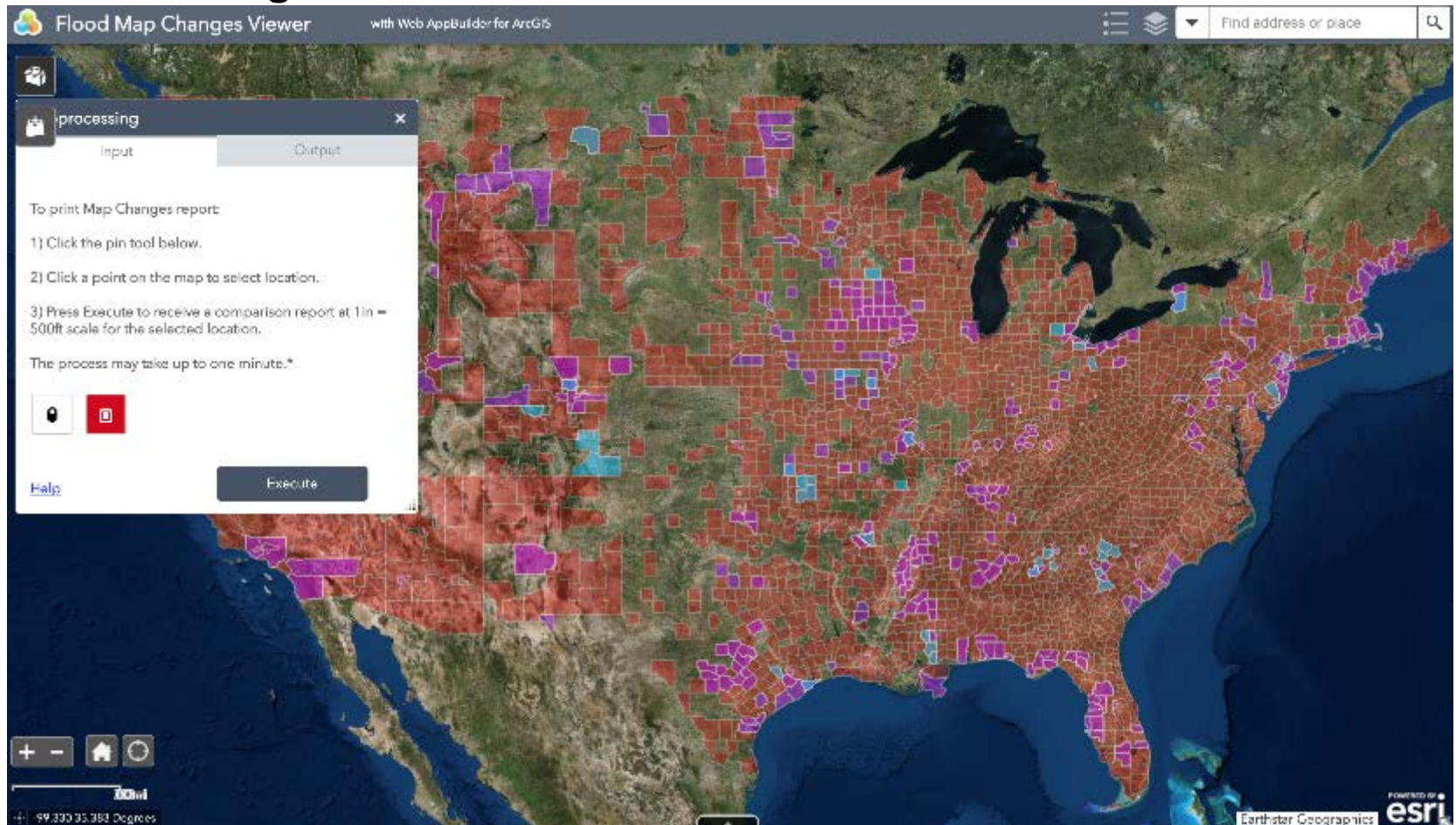


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msc.fema.gov/fmcv



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Floodplain Manager and Administrator Tasks

msc.fema.gov/fmcv

The screenshot displays the 'Flood Map Changes Viewer' web application. The interface includes a map of Miami County, Florida, showing various flood hazard zones. A 'processing' dialog box is open on the left, providing instructions for generating a report. On the right, a 'Layer List' panel shows several active layers. The map itself is overlaid with different colored and patterned areas representing flood zones, with labels such as 'MIAMI COUNTY', 'AREA OF MINIMAL FLOOD HAZARD', and 'Zone AE'. A search bar at the top right allows for finding addresses or places. The bottom left corner shows map navigation controls and coordinates.

Flood Map Changes Viewer with Web AppBuilder for ArcGIS

Find address or place

processing

Input Output

To print Map Changes report:

- 1) Click the pin tool below.
- 2) Click a point on the map to select location.
- 3) Press Execute to receive a comparison report at 1 in = 500ft scale for the selected location.

The process may take up to one minute.*

Help Execute

Layer List

Layers

- ☒ Preliminary Changes Since Last FIRM Layer
- ☒ Pending National Flood Hazard Layer
- ☒ Preliminary National Flood Hazard Layer
- ☒ Effective FIRM Panels
- ☒ National Flood Hazard Layer
- ☒ Coastal Barrier Resources System Area (US FWS)

MIAMI COUNTY
390498
AREA OF MINIMAL FLOOD HAZARD
Zone AE
39109 CD154E
eff. 4/2/2011

Zone AE
Zone AE
CHANGE ELEMENT ZONE
Zone AE

84 25 43.68 Degrees



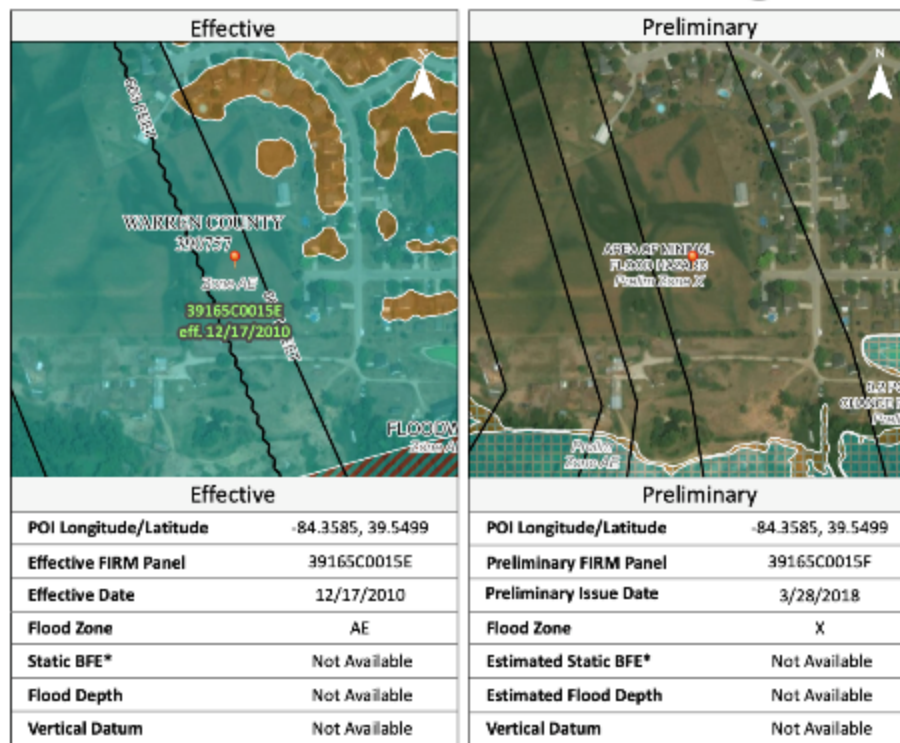
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msc.fema.gov/fmcv

Comparison of Flood Hazard

Effective & Preliminary Flood Hazards



* A Base Flood Elevation is the expected elevation of flood water during the 1% annual chance storm event. Structures below the estimated water surface elevation may experience flooding during a base flood event.

Hazard Level: High Flood Hazard
Flood Hazard Zone: AE, A, AH, AO, VE and V Zones. Properties in these flood zones have a 1% chance of flooding each year. This represents a 26% chance of flooding over the life of a 30-year mortgage.

Moderate Flood Hazard: Shaded Zone X. Properties in the moderate flood risk areas also have a chance of flooding from storm events that have a less than 1% chance of occurring each year. Moderate flood risk indicates an area that may be protected from flood risk reduction due to a flood control system or an area that is prone to flooding during a 0.2% annual chance storm event. These areas may have been indicated as areas of shallow flooding by your community.

Low Flood Hazard: Unshaded Zone X. Properties on higher ground and away from local flooding sources have a reduced flood risk when compared to the Moderate and High Flood Risk categories. Structures in these areas may be affected by larger storm events, in excess of the 0.2% annual chance storm event.

Insurance Note: High Risk Areas are called 'Special Flood Hazard Areas' and flood insurance is mandatory for federally backed mortgage holders. Properties in Moderate and Low Flood Risk areas may purchase flood insurance at a lower cost rate, known as Preferred Risk Policies. See your local insurance agent or visit <https://www.fema.gov/national-flood-insurance-program> for more information.

Disclaimer: This report is for informational purposes only and is not authorized for official use. The positional accuracy may be compromised in some areas. Please contact your local floodplain administrator for more information or go to msc.fema.gov to view an official copy of the Flood Insurance Rate Maps.

Service Layer Credits: Source: Cart, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

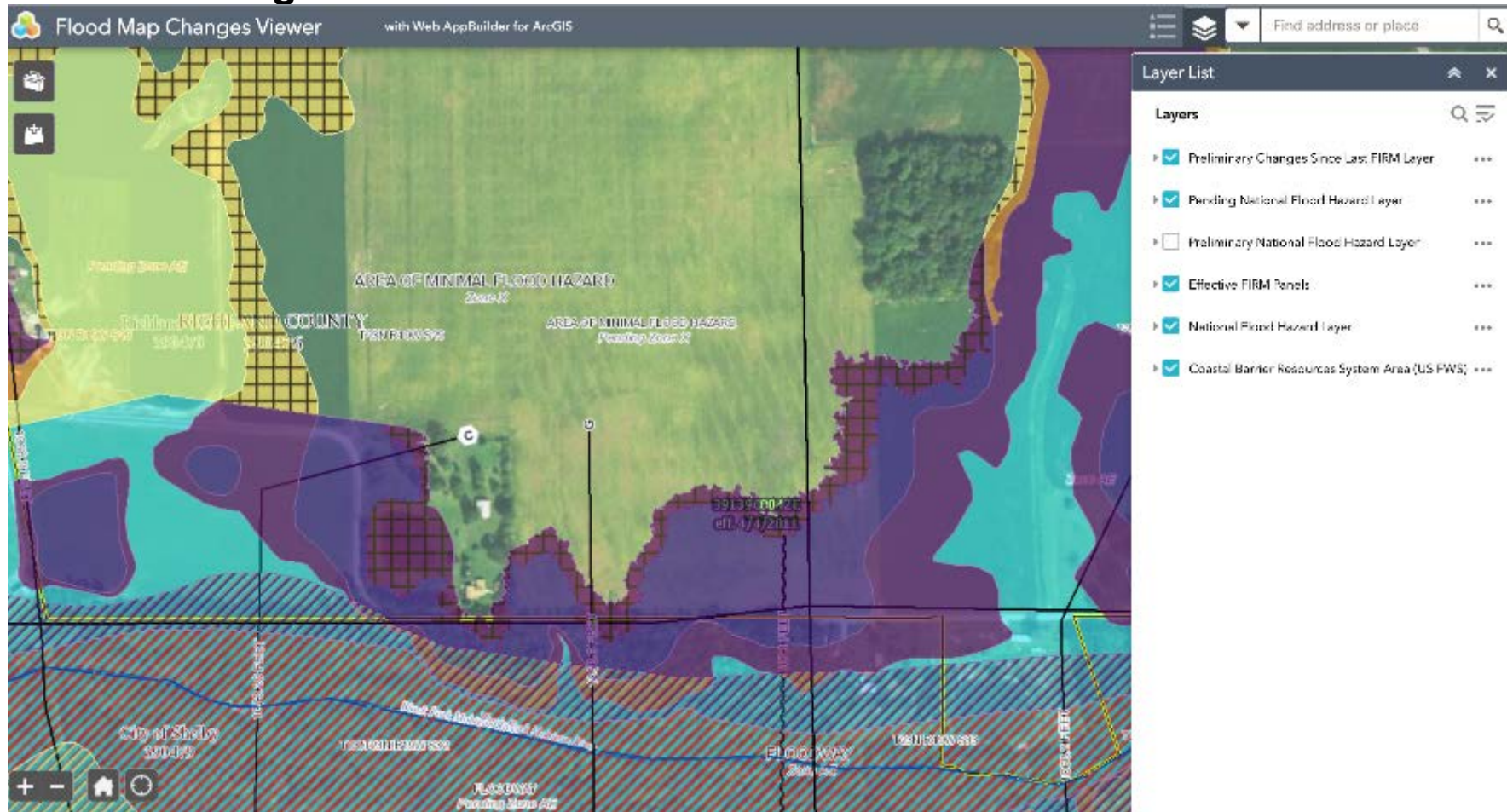


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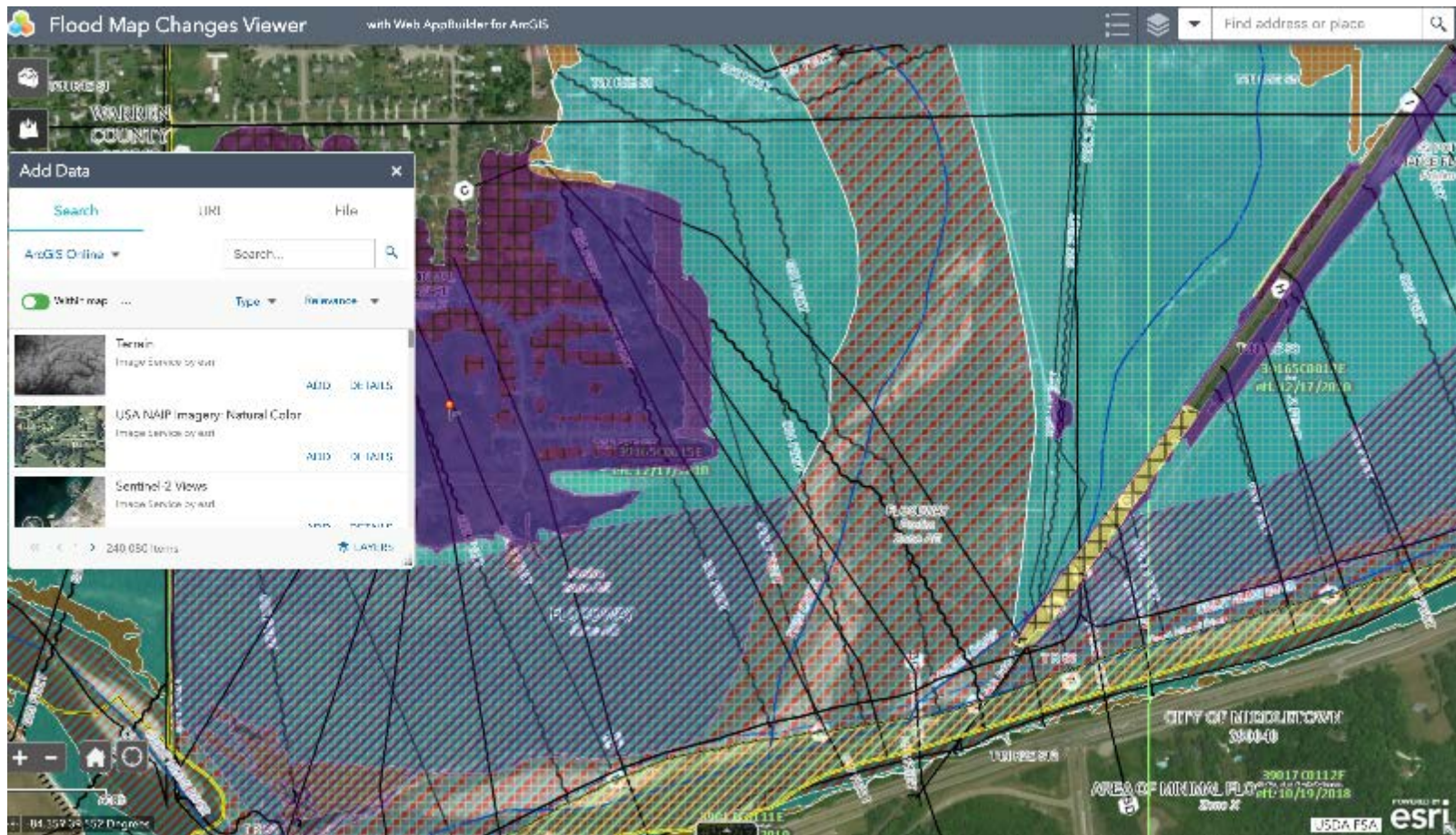
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msc.fema.gov/fmcsv



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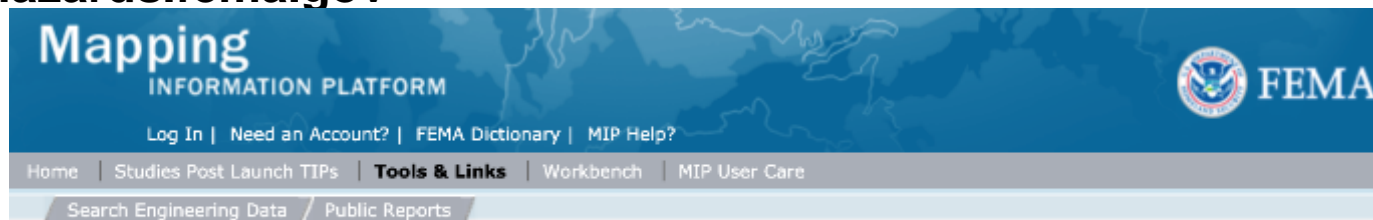
“What is the status of the FEMA study for my area?”

- **Flood Study project status lookup**

- **Study Tracker Map**

Floodplain Manager and Administrator Tasks

hazards.fema.gov



[Home](#) » Tools & Links

Tools & Links

FEMA's [Flood Hazard Mapping](#) Web site contains a wealth of useful information about floodplain mapping and National Flood Insurance Program processes. The [Frequently Asked Questions](#) page contains answers to many common questions.

Resources for Mapping Partners

Mapping and Engineering Tools

- [cHECK-RAS](#)
- [RASPLLOT](#)
- [Hazus](#)
- [Risk MAP FIRM Title Block NFIP Graphic](#)

Additional Resources

- [Geospatial Data Coordination Portal](#) (Replaces the Geospatial Data Implementation Guide. Password Required.)
- [Geospatial Coordination Reports](#)
- [Geospatial Data Coordination Contacts by State](#)
- [Federal Mapping Program Factsheets](#)
- [National and State Data Coordination Procedures](#)
- [Metadata Profiles](#)

MIP Web Services

- [GIS Services for the National Flood Hazard Layer](#)
- [Using the National Flood Hazard Layer in Google Earth](#)
- [The Studies Tracker Map](#)

Resources for Homeowners

- [Flood Hazard Mapping](#)
 - [Information for Homeowners](#)
- [National Flood Insurance Program](#)
- [FloodSmart.Gov](#)
- [Floodplain Management](#)
- [Mitigation](#)
- [Ready.Gov](#)

Other Resources

- [FIRMette – Desktop Installation and User Guide](#)
- [Flood Hazard Mapping](#)
 - [Insurance Professionals & Lenders](#)
 - [What is eLOMA?](#)
 - [eLOMA \(Password Required\)](#)
 - [Engineers and Surveyors](#)
 - [Floodplain Managers](#)



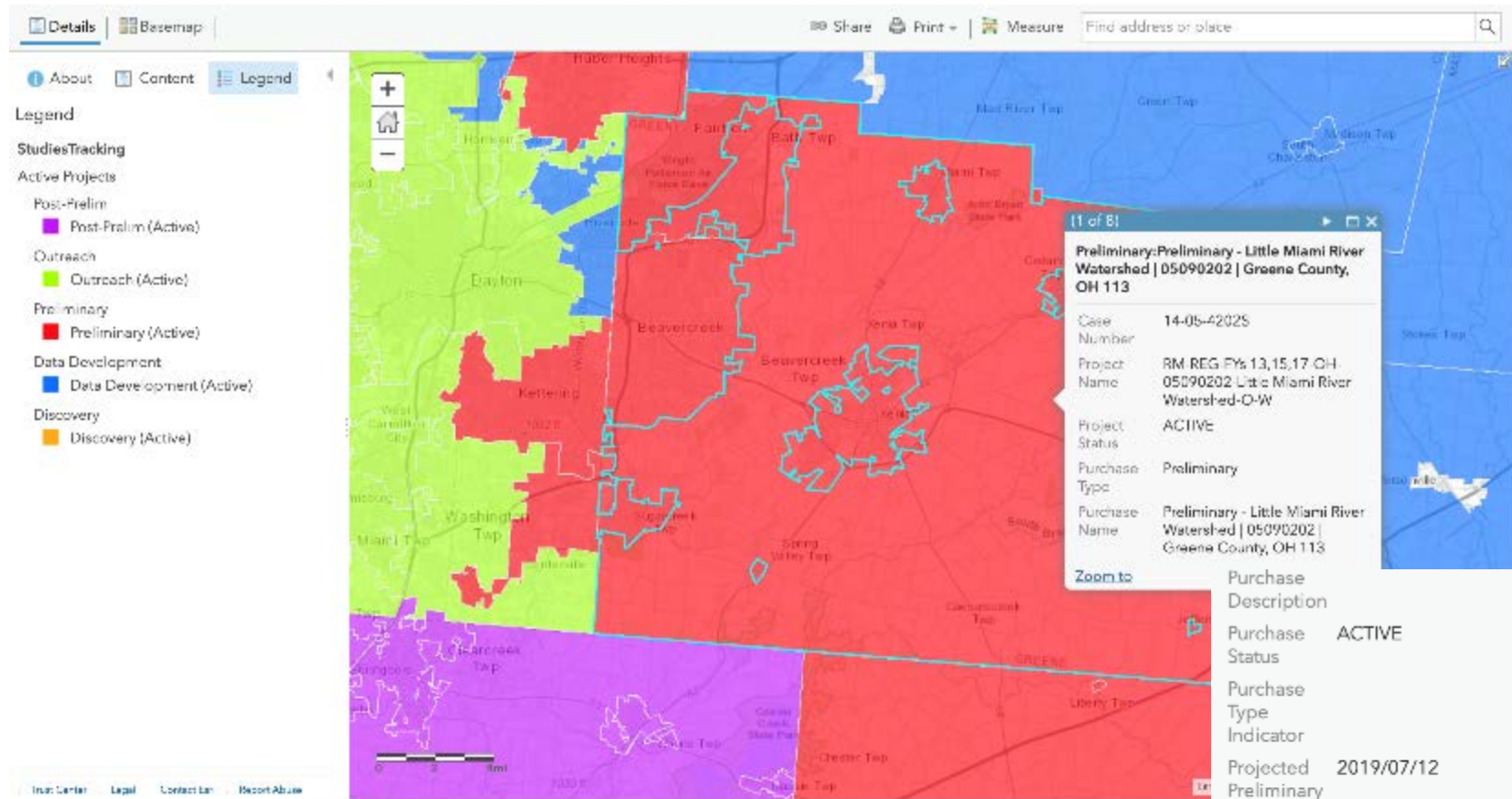
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ArcGIS Mapping Information Platform Studies Tracker

Modify Map & Sign In



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msc.fema.gov/draft

Welcome to the Draft National Flood Hazard Viewer!

The Draft National Flood Hazard Layer Viewer (Draft NFHL) features [draft flood hazard data](#) and a Draft Changes Since Last FIRM (CSLF) dataset which indicates the specific areas impacted by proposed changes from the current effective data to the draft data. The draft flood hazard data as identified by an in-progress flood hazard study. The Draft NFHL Viewer allows users to see flood hazard data in its earliest in-progress flood hazard data study prior to formally issuing preliminary flood hazard data.

Draft data are for review and guidance purposes only and cannot be used to rate flood insurance policies; they are not used to determine whether there is a mandatory flood insurance purchase requirement. By viewing draft data and maps, the user acknowledges that the information provided is draft and subject to change. Draft data, including new or revised FIRMs, FIS reports, and FIRM Databases, Base Level Engineering (BLE) data, and work maps are not final and are presented on the FEMA Map Service Center as the best data available at this time for areas where preliminary data does not exist. FEMA will remove the draft data for a particular area once preliminary or effective data are available.

Questions? Contact the Map Specialists at the [FEMA Map Information eXchange \(FMIX\)](#).

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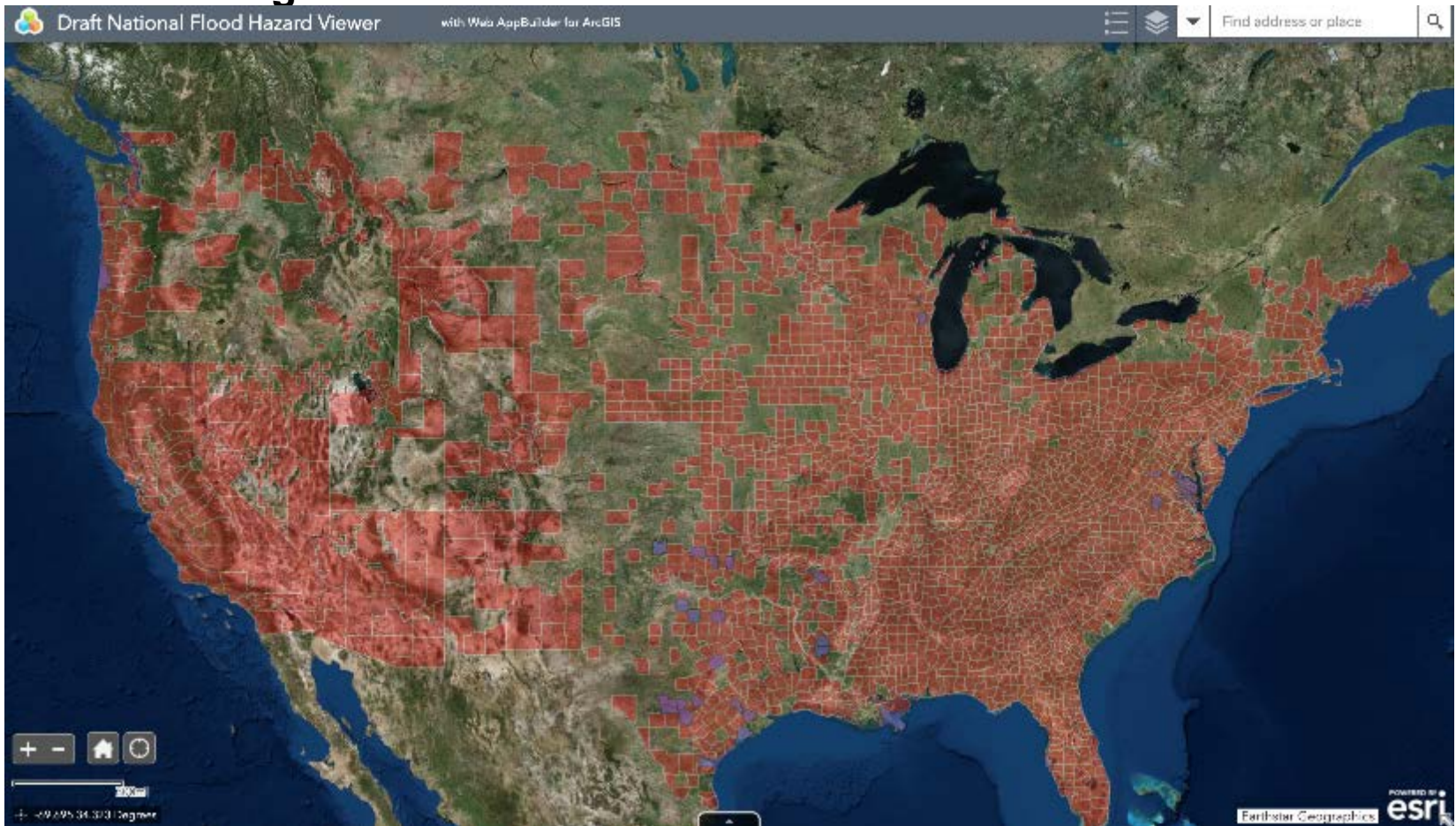
OK



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Floodplain Manager and Administrator Tasks

msc.fema.gov/draft



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The screenshot displays the 'Draft National Flood Hazard Viewer' web application. The main map area shows an aerial view of a landscape with various flood hazard overlays. A pop-up window titled '(1 of 1)' provides details for a specific area:

- Proposed Flood Zone Subtype:
- Special Flood Hazard Area Risk Change: Increase
- Floodway Risk Change: None (Zero)
- Non-Special Flood Hazard Area Risk Change: None (Zero)
- Coastal High Hazard Area Risk Change: None (Zero)
- County Shapefile Export Link: [Export Here](#)
- Zoom to

On the right side, a 'Legend' panel lists various draft features:

- Draft Changes Since Last FIRM Layer**
 - Draft**
 - Coastal High Hazard Area Change
 - Coastal High Hazard Area Increase (Yellow X)
 - Coastal High Hazard Area Decrease (Purple X)
 - Floodway Change
 - Floodway Increase (Yellow diagonal lines)
 - Floodway Decrease (Purple diagonal lines)
 - Special Flood Hazard Area Change
 - Special Flood Hazard Area Increase (Yellow dots)
 - Special Flood Hazard Area Decrease (Purple dots)
 - Non-Special Flood Hazard Area Change
 - Non-Special Flood Hazard Area Increase (Yellow solid)
 - Non-Special Flood Hazard Area Decrease (Purple solid)
 - Draft National Flood Hazard Layer**
 - Draft FIRM Panel Index (Orange square)
 - Draft Cross-Sections (Black line)
 - Draft Coastal Transects (Black line)
 - Draft Base Flood Elevations (Blue wavy line)
 - Draft Profile Baselines (Blue line)
 - Draft Transect Baselines (Black line)
 - Draft Political Jurisdictions (Yellow outline)
 - Draft Flood Hazard Boundaries (Red line)
 - Limit Lines (Red line)

The bottom left corner includes navigation controls (zoom in, zoom out, home, refresh) and a scale bar.

Future Needs

What we've heard:

- Improve the Study Tracker Map to show progress to completion and upcoming milestones
- Connect the file repositories (H&H) to either the flood hazard viewer (e.g. NFHL) or the project status information in the Study Tracker Map
- Add links to the legacy FIRMet tool from the NFHL viewer to be able to stay in one viewer/tool

Resources

- Check the MSC home page for updates!
 - msc.fema.gov
- Links to know:
 - msc.fema.gov/nfhl
 - msc.fema.gov/draft
 - msc.fema.gov/fmcv
- Other tools:
 - MSC Products and Tools page (in MSC navigation)
 - MIP GIS Services Web Page (MIP Tools and Links)
 - MIP Study Tracker Map (MIP Tools and Links)
- Stop by the IBM or FEMA booths for demos and more discussion!

Questions?

Dan Horner – dhorne@niyamit.com

Eliza Ledwell – eliza.ledwell@us.ibm.com

Thanks for Attending!



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