



# Middle Delaware River Watershed Hazard Mitigation Plan Implementation and Grant Development (PIGD) Workshop

**March 18, 2024**

**Virtual Session**

# FEMA Map Service Center

<https://msc.fema.gov/portal/home>



FEMA



Navigation



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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

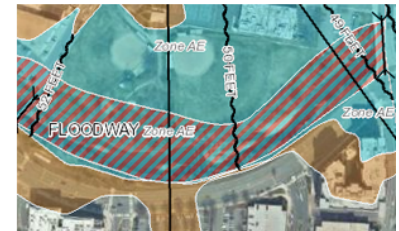
Contact MSC Help

## FEMA Flood Map Service Center: Welcome!

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 Effective information that you download or print from this site may change or become superseded by new maps over time.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](#)

# Resources and Data on the FEMA MSC

- National Flood Hazard Layer (NFHL)
- FIRMette Builders:
  - Old, static FIRMette builder is gone (for the most part)
  - Interactive web-based FIRMette builder is incorporated into the NFHL
- Preliminary Flood Hazard Data
- HAZUS download
- Product availability tables

# Searching for MSC Data



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# FEMA's MSC - Search by Address

Enter an address, place, or coordinates: ?

jim thorpe, pa

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 [how you can take](#) to reduce flood risk damage.

Search Results—Products for **CARBON COUNTY**

Show ALL Products »

The flood map for the selected area is number **42025C0276D**, effective on **6/3/2002**

DYNAMIC MAP

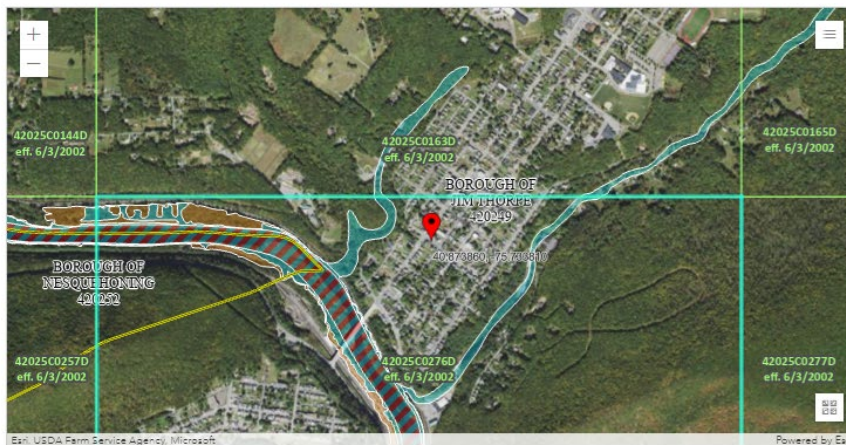


PRINT MAP/  
FIRMette

MAP IMAGE

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 »



Esri, USDA Farm Service Agency, Microsoft

Powered by Esri

<b>PHL</b> <ul style="list-style-type: none"><li>Approximate location based on user input and does not represent an authoritative property location</li><li>Selected Floodmap boundary</li><li>Digital Data available</li><li>No Digital Data available</li><li>Unmapped</li></ul>	<b>SPECIAL FLOOD HAZARD AREAS</b> <ul style="list-style-type: none"><li>Without Base Flood Elevation (BFE) Zone 1, 2, 3, 4</li><li>With BFE or Depth</li><li>Regulatory Floodway Zone A1, A2, A3, A4, A5, A6</li><li>0.2% Annual Chance Flood Hazard, Areas of 2% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone 2</li><li>Future Conditions 2% Annual Chance Flood Hazard Zone 3</li><li>Area with Reduced Flood Risk due to Levee, Sea Walls, Zone 4</li><li>Area with Flood Risk due to Levee Zone 5</li></ul>	<b>OTHER AREAS OF FLOOD HAZARD</b> <ul style="list-style-type: none"><li>Area of Minimal Flood Hazard Zone X</li><li>Effective LOAHs</li><li>Area of Unassessable Flood Hazard Zone 6</li><li>Otherwise Protected Area</li><li>Coastal Barrier Resource System Area</li></ul>	<b>OTHER FEATURES</b> <ul style="list-style-type: none"><li>Cross Sections with 2% Annual Chance</li><li>Water Surface Elevation</li><li>Coastal Tract</li><li>Base Flood Elevation Line (BFE)</li><li>Limit of Study</li><li>Jurisdiction Boundary</li><li>Coastal Tract Baseline</li><li>Profile Baseline</li><li>Hydrographic Feature</li><li>Channel, Culvert, or Storm Sewer</li><li>Levee, Dike, or Floodwall</li></ul>
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# Accessing MSC Data

- FIRMs, FIS Report, and LOMCs (current and historic)
  - Preliminary and pending products (if available)
- GIS Data
- Non-regulatory Flood Risk products (if available)

## Search Results for CARBON COUNTY






Click [subscribe](#) to receive email notifications when products are updated.

Click to [download a listing](#) of all products. [?](#)

If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a [map specialist](#).

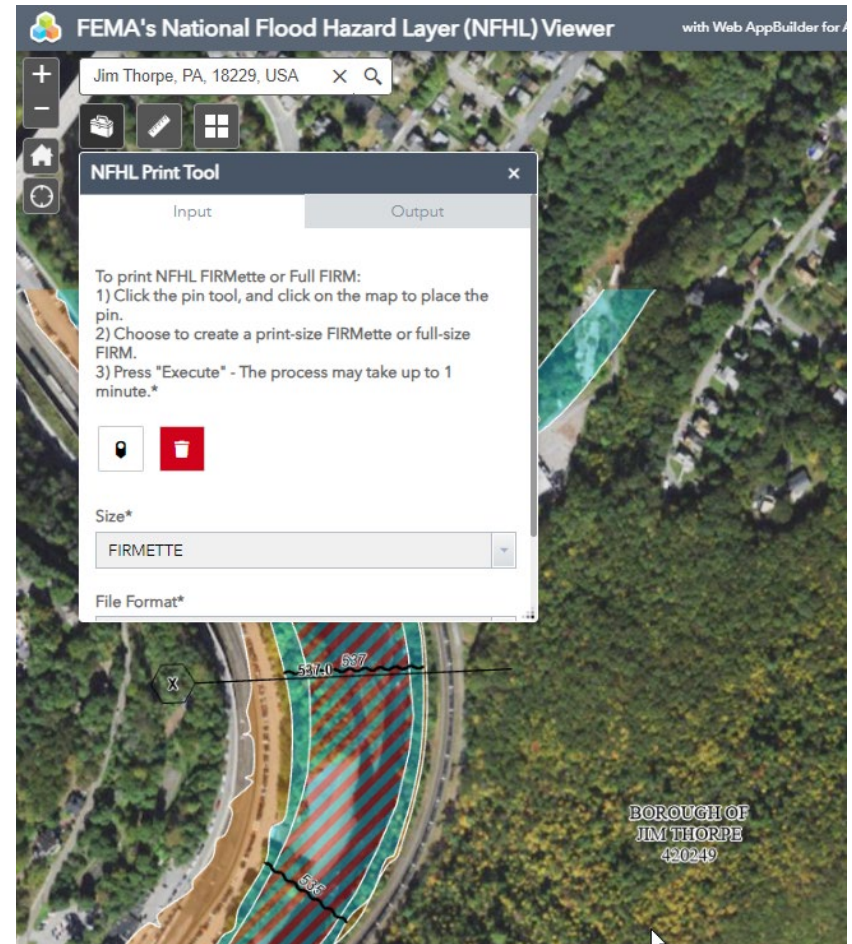
**Please Note:** Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

 [Expand All](#) [?](#)

-  Effective Products (144) [?](#)
-  Preliminary Products (0) [?](#)
-  Pending Product (0) [?](#)
-  Historic Products (97) [?](#)
-  Flood Risk Products (5) [?](#)

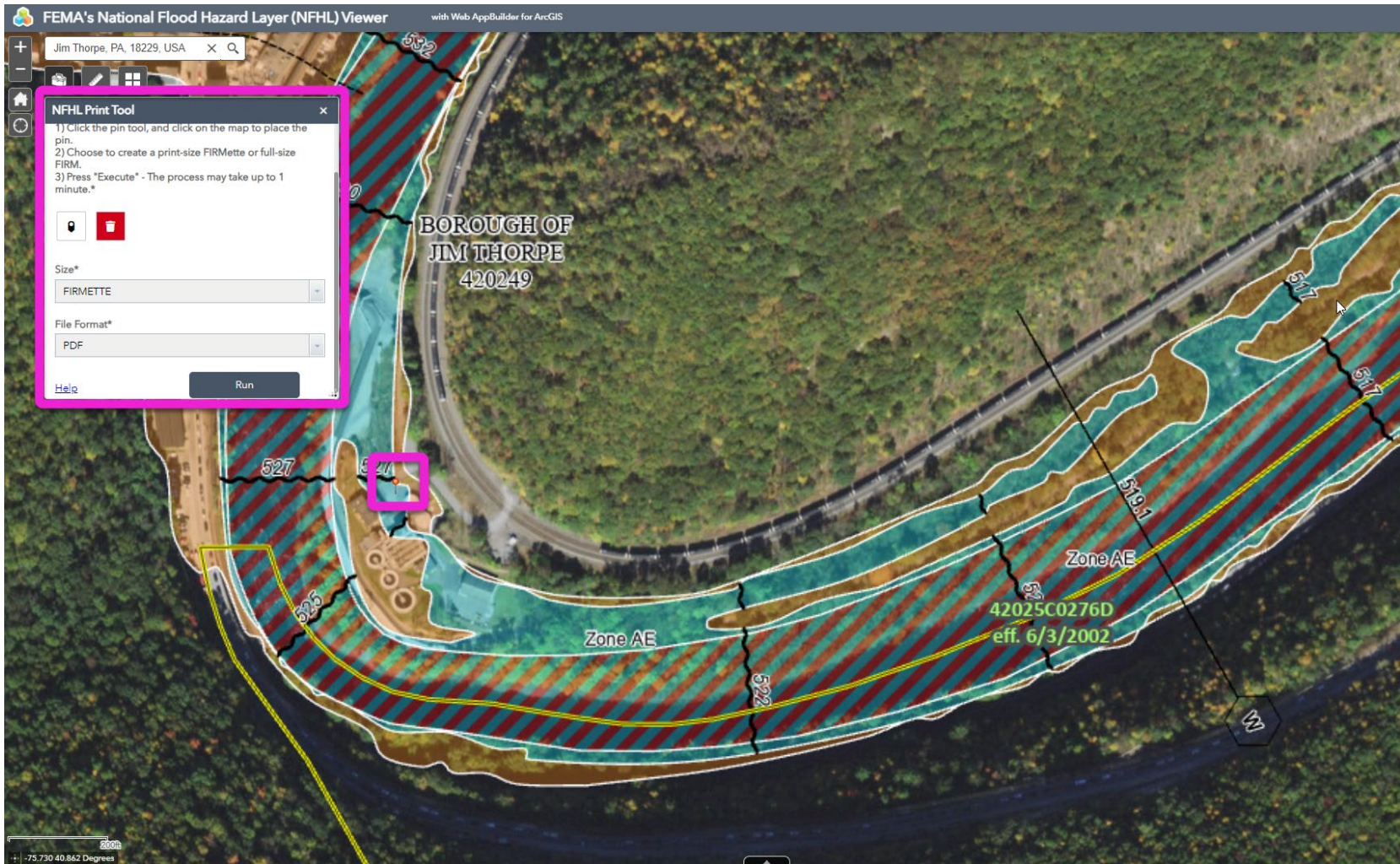
# FEMA National Flood Hazard Layer (NFHL)

- FEMA's national geospatial database of all digital **effective** FIRM data
  - [National Flood Hazard Layer](#)
  - Integrates FIRM data including LOMCs
  - Available in GIS format
  - FIRM and FIS are still the official source of data
  - Can be used to make official determinations



Borough of Jim Thorpe, Carbon County

# FEMA National Flood Hazard Layer (NFHL)







# Making a FIRMette in the NFHL

NFHL Print Tool

Input Output

To print NFHL FIRMette or Full FIRM:  
1) Click the pin tool, and click on the map to place the pin.  
2) Choose to create a print-size FIRMette or full-size FIRM.  
3) Press "Execute" - The process may take up to 1 minute.\*

Size\*  
FIRMETTE

File Format\*  
PDF

[Help](#)

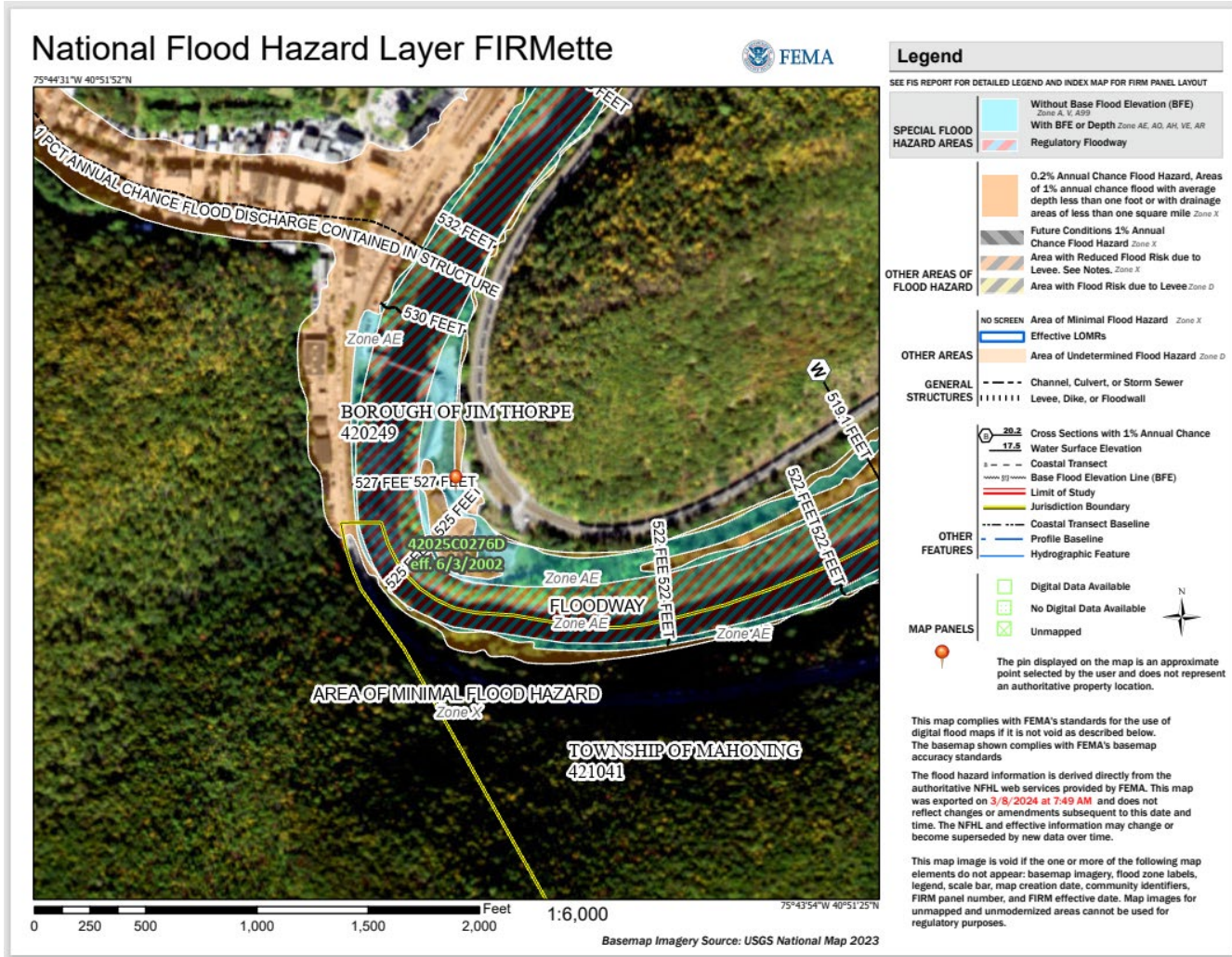
NFHL Print Tool

Input Output

OutputMessage  
Click the link below to retrieve your NFHL FIRMETTE map in pdf format

OutputFile  
[http://msc.fema.gov/arcgis/rest/directories/arcgisjobs/nfhl\\_p\\_d1f7-414c-b06c-eb1d1c202fb6.pdf](http://msc.fema.gov/arcgis/rest/directories/arcgisjobs/nfhl_p_d1f7-414c-b06c-eb1d1c202fb6.pdf)

# Making a FIRMette from the NFHL



# FEMA's MSC Email Subscriptions



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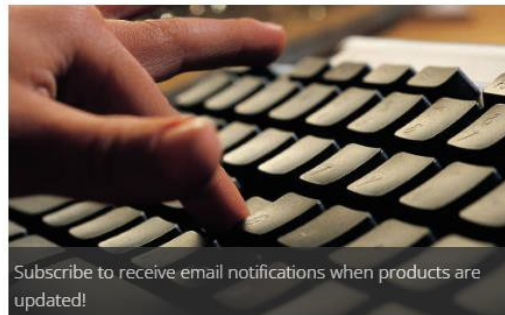
## FEMA Flood Map Service Center: Email Subscriptions: Sign In

### 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.

Because of a recent update, all users must reset their password. If you haven't reset your password since February 19, 2021, please click on "Forgot Password?" to reset your password.



### Login

Email Address

Enter email address

Password

Enter 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 service allows users to select one or more topic-specific channels such as Map Service Center, Flood Hazard Mapping or Hazus through which they will receive notices. To get started, please visit the [FEMA Email Subscriptions page](#).

# FEMA's MSC Email Subscriptions

Manage Email Subscriptions [Edit Profile](#) [View Recently Posted Subscribed Products](#)

▼ Collapse All Sections

▼ Email Frequency

I want to receive emails for all subscriptions:  Monthly  Weekly  Daily

[Save](#)

▼ Create New Email Subscription

[Create](#)

### 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: PENNSYLVANIA

County: CARBON COUNTY

Community: JIM THORPE, BOROUGH OF

- OR -

Region: -- Select --

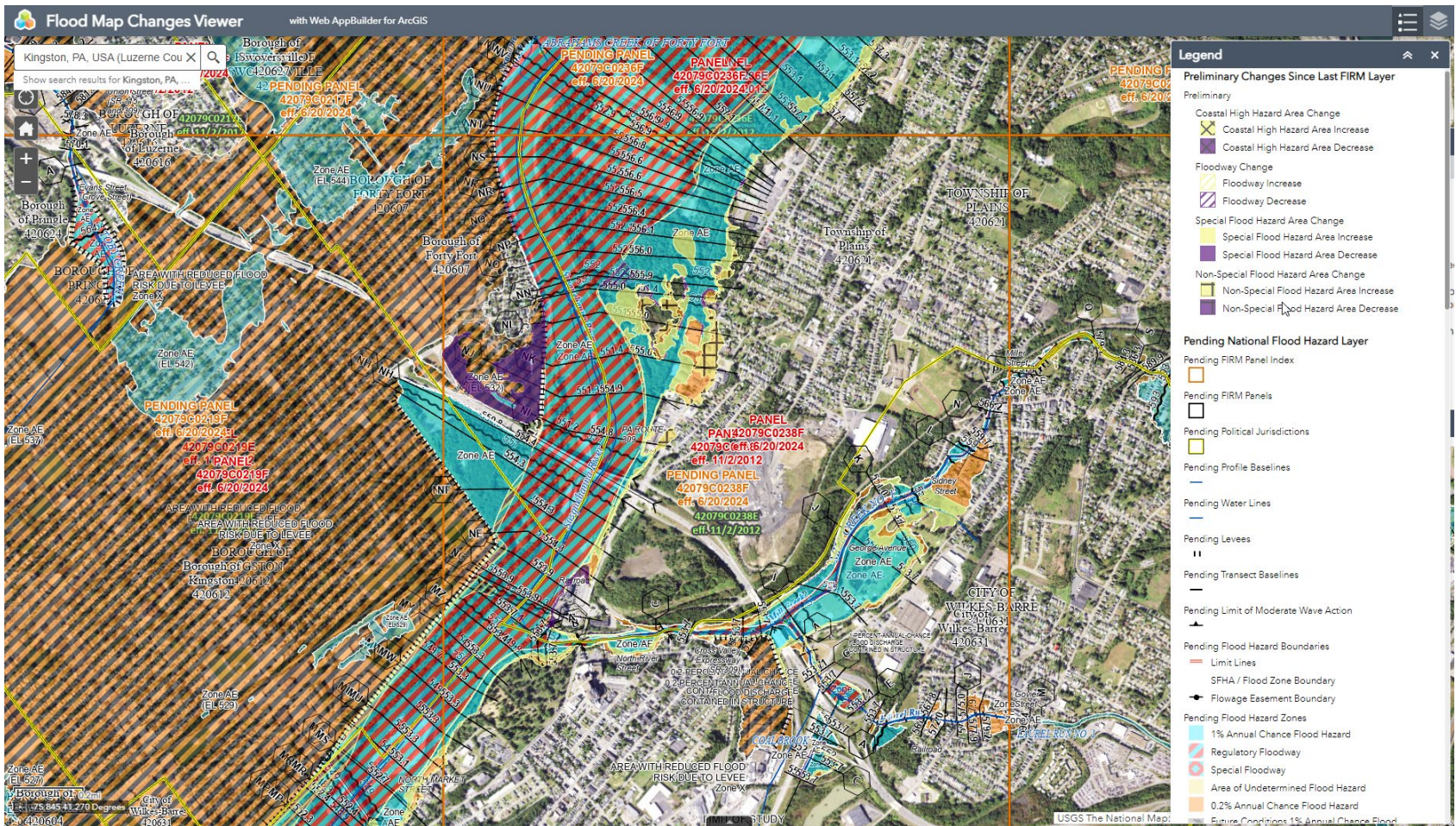
I want to receive the following products:

- 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](#)

# FEMA Changes Since Last FIRM (CSFL)

## [Flood Map Changes Viewer \(arcgis.com\)](https://arcgis.com)



# NFHL on Google Earth™

<https://hazards.fema.gov/femaportal/wps/portal/NFHLWMSkmzdownload>

## Mapping

INFORMATION PLATFORM



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[Home](#) | [Studies Post Launch TIPS](#) | [Tools & Links](#) | [MIP User Care](#)

### Using the National Flood Hazard Layer Web Map Service (WMS) in Google Earth™

**Notice:** A new version (V3.2) of the Keyhole Markup Language (.kmz) file for viewing the FEMA NFHL overlays in Google Earth has been released. The previous version of the FEMA NFHL V3.1 file will no longer work properly. Effective 02/15/2019, the new version (V3.2) incorporates Coastal Barrier Resource System (CBRS) data directly from the authoritative source at the Fish and Wildlife Service (FWS), rather than as a feature in FEMA's NFHL. Below are direct links to download the newest kmz version. Google Earth version 7.3 or higher must be used for this service. The Stay Dry file is not impacted.

- [Stay Dry v3.1 kmz](#)
- [FEMA NFHL v3.2 kmz](#)

#### Contents

- [Introduction](#)
- [Stay Dry](#)
- [FEMA NFHL](#)
- [Getting Started in Google Earth](#)
- [Frequently Asked Questions](#)

#### Introduction



Google Earth is a popular Internet application through which users can view maps. This web site provides zipped Keyhole Markup Language (.kmz) files through which users can view map overlays created from FEMA's National Flood Hazard Layer on Google Earth images.

You must already have the Google Earth application installed on your computer to use these files. The starting point for obtaining the software is <http://earth.google.com>. Information about the system requirements needed for your computer to run the software is available through <http://earth.google.com/support>. A user guide is available at <http://earth.google.com/userguide>.

FEMA offers two applications: "Stay Dry" and "FEMA NFHL." Stay Dry is more simple and focused. NFHL is less limited but more complex to use. Each is described below, and each has its own .kmz file. For optimum performance, please do not open both, and do not have more than one copy of each, in Google Earth at the same time.

To use the .kmz files, first save them to your computer. Do this by right-clicking on a hyperlinked file name below, choosing "Save Target as" (Internet Explorer) or "Save Link As" (Firefox), changing the file name if you wish (**be sure that the file name has the extension .kmz**), and clicking on save.

After saving the file, double-click on the file on your computer. This action should start Google Earth and provide the opening view for the application.

If you plan to use mapped flood information displayed in Google Earth for official purposes, insure that imagery and other map information displayed with the flood data meet FEMA's standards for map accuracy.

Some Geographic Information System (GIS) software can import GIS data encoded in the kmz format used for these applications. This technique is unlikely to work with the kmz files provided below. If you are interested in using the NFHL in GIS software, use the NFHL GIS data or NFHL Web Map Service (WMS) or Representative State Transfer (REST) Service.

All product options and services are available through FEMA's Map Service Center (MSC) at <http://msc.fema.gov>.

FEMA anticipates future improvements to the .kmz files, so please revisit this page occasionally to obtain the latest version.

#### Stay Dry

"Stay Dry" is a focused application that provides basic flood hazard map information from FEMA's National Flood Hazard Layer for an address. It allows you to view flood hazard zones and Flood Insurance Rate Map numbers and boundaries.

For best performance please delete or turn off previous versions of the "Stay Dry" or "FEMA NFHL" folders that you have loaded in Google Earth before using the new version of "Stay Dry."

[Stay Dry v3.1 kmz](#)

[Stay Dry Google Earth Application Instructions](#)

#### FEMA NFHL

"FEMA NFHL" is a general application that provides for the display of flood hazard zones and labels, floodways, Coastal Barrier Resources System and Otherwise Protected Area units, community boundaries and names, base flood elevations, cross sections and coastal transects and their labels, hydraulic and flood control structures, flood profile baselines, coastal transect baselines, limit of moderate wave action lines, river mile markers, and Flood Insurance Rate Map and Letter of Map Revision boundaries and numbers. Additional reference layers include the status of NFHL data availability, point locations for Letters of Map Amendment (LOMAs) and Letters of Map Revision Based on Fill (LOMR-Fs). You control the information displayed by turning layers on and off. A basic knowledge of Google Earth and FEMA flood hazard information will help users of this application.

# NFHL on Google Earth™

**NFHL Quick Start**

Under the 'Places' section:

- Open the "National Flood Hazard Layer (FEMA)" folder to see the layers available for display
- Before zooming to a location, view the status map ("NFHL Availability" layer) to see if data are available
- Select the check box in front of a layer name to turn the layer on and unselect the check box to turn the layer off
- Layers are drawn at the altitudes listed under the layer name
- Click the layer name to view more information about the layer
- If you plan to use a map for official purposes, ensure that imagery and other map information displayed with the flood data meet FEMA's standards

**REFERENCE LAYERS**

- NFHL Data Available
- FIRM Panel Boundary
- LOMR Boundary

**SPECIAL FLOOD HAZARD AREAS**

- 1% Annual Chance Flood Hazard Zone (A, AE, AH, AO, AR, ADVUE)
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

- 0.2% Annual Chance Flood Hazard Zone
- Future Conditions 1% Annual Chance Flood Hazard Zone
- Area with Reduced Flood Risk due to Levee Zone
- Area Outside the 0.2% Annual Chance Flood Hazard Zone
- Areas of Undetermined Flood Hazard Zone

**CROSS SECTIONS & BFES**

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transact
- Coastal Transact Baseline
- Profile Baseline
- Base Flood Elevation

**SUPPORTING INFORMATION**

- Limit of Study
- Jurisdictional Boundary

**Places**

- National Flood Hazard Layer (FEMA)
  - NFHL Help Information
  - Important Message
  - Quick Start Instructions
  - Logo
  - Legend
  - NFHL
    - NFHL Availability
      - Layer draws above 25 mi. altitude
    - Flood Hazard Zones
      - Layer draws below 27000 ft. altitude
    - Flood Hazard Zone Labels
      - Layer draws below 2500 ft. altitude
    - Base Flood Elevations
      - Layer draws below 13000 ft. altitude
    - Cross Sections and Coastal Transects
      - Cross Sections draw below 13000 ft. altitude
      - Coastal Transects draw below 50000 ft. altitude
    - River Mile Markers
      - Layer draws below 25 mi. altitude
    - LOMRs
      - Layer draws below 50000 ft. altitude
    - FIRM Panels
      - Layer draws below 25 mi. altitude
    - Coastal Barrier Resource System Areas and Otherwise Protected Areas
      - Layer draws below 25 mi. altitude
    - Political Jurisdictions
      - Layer draws below 25 mi. altitude
    - Levees
      - Layer draws below 27000 ft. altitude

**Layers**

- Primary Database
- Announcements
- Borders and Labels
- Places
- Photos
- Roads
- 3D Buildings
- Weather
- Gallery
- More

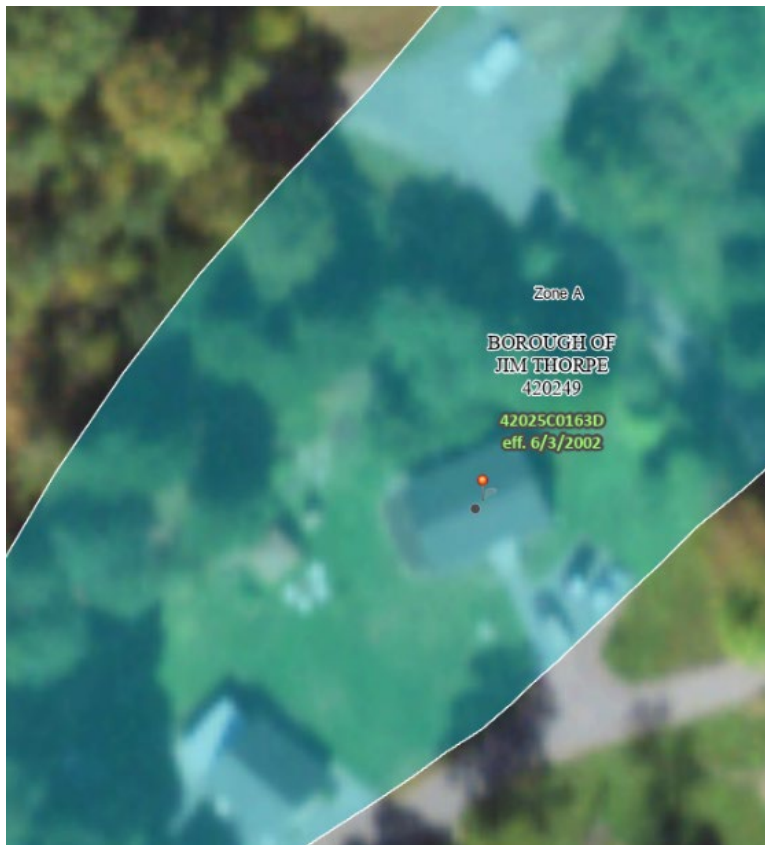
Date: 6/10/2014 11:21:54 AM EDT  
 Data: GIC, NOAA, U.S. Navy, NGA, GEBCO  
 Data: LDC, Columbia, NSF, NOAA  
 Image: Landsat, Copernicus

Google Earth

42°51'24.14"N 111°21'54.63"W elev. 7004 ft. eye alt. 1642.44 mi

# NFHL on Google Earth™

NFHL Viewer



NFHL on Google Earth™

