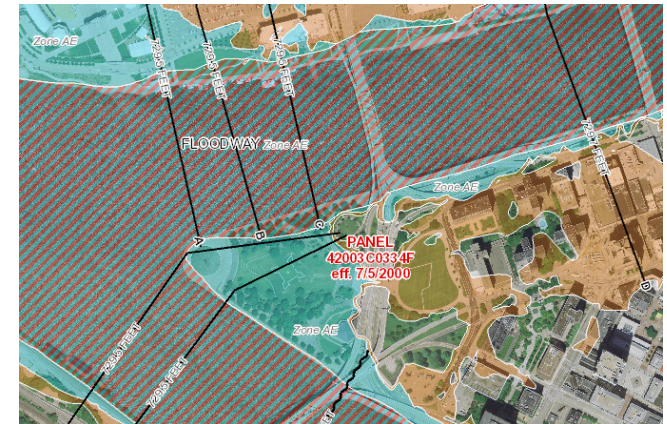
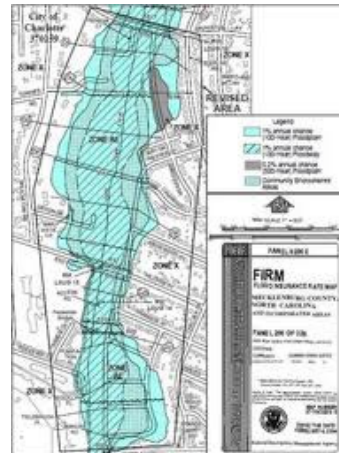




FEMA

New MSC Features and Future Enhancements

MAFSM Presentation
October 15, 2015



Introductions

Dan Horner

IBM – FEMA Risk MAP Customer and Data Services

daniel.horner@associates.fema.dhs.gov

MSC 3.0 Overview

In July 2014, FEMA launched a newly re-architected Flood Map Service Center (MSC) website
msc.fema.gov

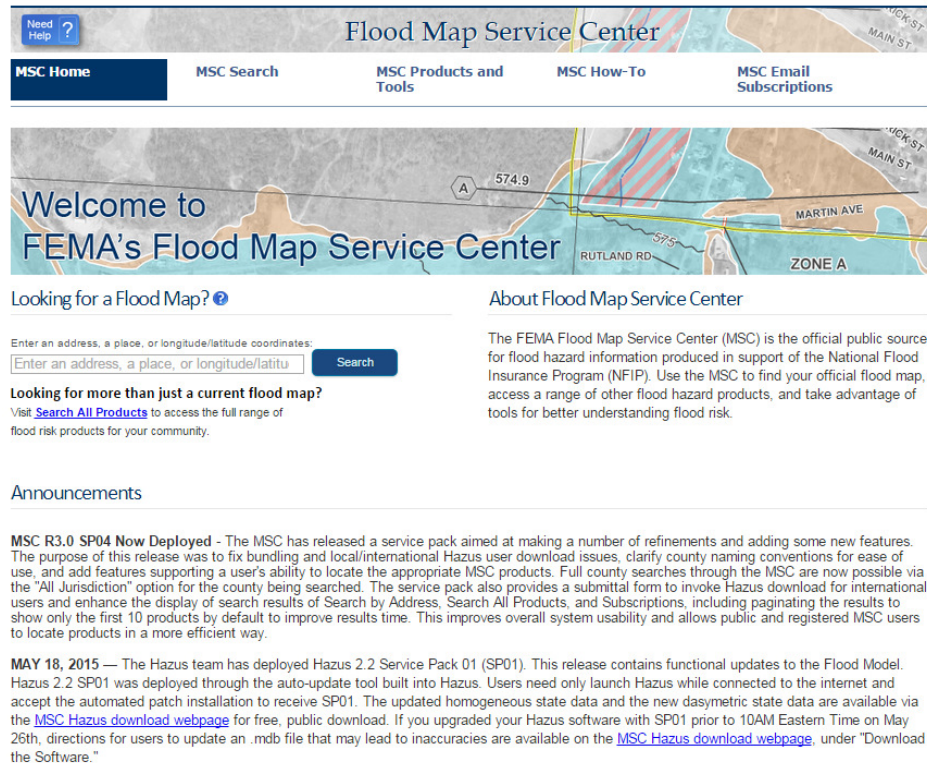
Key Enhancements:

- View and download all products... for free!
- Automated notifications of new products
- All-in-one search results for effective products
- Direct file downloads from search results
- Simplified navigation
- Quick, intuitive access to products
- Enhanced supporting information

Five service packs deployed since initial deployment

MSC 3.0 Overview – Home Page

- **Clutter-free homepage, ideal for quick-access to a community's flood map**
- **Active announcements**
 - Maintenance windows
 - New site enhancements
 - Other important messages
- **Intuitive navigation**
 - Search All Products
 - Products and Tools
 - How-to
 - Email Subscriptions



Need Help?

Flood Map Service Center

MSC Home MSC Search MSC Products and Tools MSC How-To MSC Email Subscriptions

Welcome to FEMA's Flood Map Service Center

Looking for a Flood Map?

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

Announcements

MSC R3.0 SP04 Now Deployed - The MSC has released a service pack aimed at making a number of refinements and adding some new features. The purpose of this release was to fix bundling and local/international Hazus user download issues, clarify county naming conventions for ease of use, and add features supporting a user's ability to locate the appropriate MSC products. Full county searches through the MSC are now possible via the "All Jurisdiction" option for the county being searched. The service pack also provides a submittal form to invoke Hazus download for international users and enhance the display of search results of Search by Address, Search All Products, and Subscriptions, including paginating the results to show only the first 10 products by default to improve results time. This improves overall system usability and allows public and registered MSC users to locate products in a more efficient way.

MAY 18, 2015 — The Hazus team has deployed Hazus 2.2 Service Pack 01 (SP01). This release contains functional updates to the Flood Model. Hazus 2.2 SP01 was deployed through the auto-update tool built into Hazus. Users need only launch Hazus while connected to the internet and accept the automated patch installation to receive SP01. The updated homogeneous state data and the new dasymetric state data are available via the [MSC Hazus download webpage](#) for free, public download. If you upgraded your Hazus software with SP01 prior to 10AM Eastern Time on May 26th, directions for users to update an .mdb file that may lead to inaccuracies are available on the [MSC Hazus download webpage](#), under "Download the Software."

MSC 3.0 Overview – Address Search

■ Address Search

- Find the effective FIRM panel and all LOMC for the FIRM panel with one address search
- Download products directly from the search results
- Direct link to FEMA’s National Flood Hazard Layer (NFHL) on the GeoPlatform (where available)

■ “Show All Products”

- Opens pre-populated Search All Products page

The screenshot displays the Flood Map Service Center (MSC) website interface. At the top, there is a navigation bar with links for "MSC Home", "MSC Search", "MSC Products and Tools", "MSC How-To", and "MSC Email Subscriptions". Below the navigation bar, the "Search by Address" section is active, showing a search field with the text "white house". The results indicate that the user has selected a location in the "DISTRICT OF COLUMBIA". The flood map for the selected area is identified as panel number 1100010018C, effective on 09/27/2010. The map shows the flood map boundary, printed flood map boundary, non-printed flood map boundary, and un-mapped area. The map also displays the location of the White House in Washington, D.C. The interface includes options to "VIEW MAP", "SAVE MAP", and "INTERACTIVE MAP", as well as a link to "Show all products for this area". A legend at the bottom of the map identifies the different boundary types: Selected Flood Map Boundary (red), Printed Flood Map Boundary (blue), Non-printed Flood Map Boundary (green), and Un-mapped Area (yellow).

MSC 3.0 Overview – *Search All Products*

- **Advanced search for products by:**
 - Jurisdiction (drill-down options), jurisdiction name or FEMA ID, or Product ID
 - Results include Effective, Pending, Historic, Preliminary Products as well as Flood Risk Products
- **All products are available for direct download**
- **Collapsible menus allow selective view of details**
- **Subscribe option**

The screenshot shows the 'Search All Products' interface of the Flood Map Service Center. The page has a navigation bar with links for 'MSC Home', 'MSC Search' (highlighted), 'MSC Products and Tools', 'MSC How-To', and 'MSC Email Subscriptions'. Below the navigation bar, the title 'Search All Products' is displayed. A sub-header reads: 'Choose one of the three search options below and optionally enter a posting date range.' The search form is divided into three columns: 'Jurisdiction' with a 'State' dropdown menu; 'Jurisdiction Name' with a text input field containing 'DISTRICT OF COLUMBIA' and a note '(Ex. Fairfax County-wide or 51059C)'; and 'Product ID' with a text input field and a note '(Ex. Panel Number, LOMC Case Number)'. Below these fields is a section for 'Map Service Center Posting Date Range (optional)' with 'Date From' and 'Date To' input fields, and 'Search' and 'Clear All Fields' buttons. The search results section is titled 'Search Results for DISTRICT OF COLUMBIA' and includes a note about email notifications. A list of product categories is shown: Effective Products (39), Preliminary Products (0), Pending Product (0), Historic Products (13), and Flood Risk Products (0).

MSC 3.0 Overview – *Email Subscriptions*

■ Free email subscription service

- Alerts subscribers when new products matching their provided parameters become available
- Subscribe to multiple areas from the same account
- Download products directly from your subscription account
- View products posted in the last 45 days

■ Business process changes



- Prior paid subscription services are discontinued
- DVDs no longer available to subscribers, only to local officials

The screenshot shows the 'Manage Email Subscriptions' interface. At the top, there are tabs for 'Manage Email Subscriptions' and 'Edit Profile', and a link for 'Recently Posted Subscribed Products'. The 'Email Frequency' section allows users to select how often they want to receive emails (Monthly, Weekly, or Daily) and includes a 'Save' button. Below this is the 'Create New Email Subscription' section, which has a 'Create' button. The main area is titled 'CREATE EMAIL SUBSCRIPTION' and contains instructions: '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.' There are two columns of options. The left column, 'I want to receive email subscriptions for:', includes dropdown menus for State, County, Community, and Region (with a '-OR-' separator). The right column, 'I want to receive the following products:', includes checkboxes for: Final Regulatory Products, Pending FIRM Panels, Pending FIRM Reports, Pending FIRM Database, NFHL Data, LOMC, LOMR, LOMA, Revalidations, Preliminary Regulatory Products, and Flood Risk Products. At the bottom of this section are 'Save Email Subscription' and 'Cancel' buttons. Below the form is the 'Current Email Subscriptions' section, which states 'You currently receive the following email subscriptions:' and displays a table with columns for 'Select', 'Description', and 'Products'.

Select	Description	Products
<input type="radio"/>	Region I	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database
<input type="radio"/>	Region II	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database
<input type="radio"/>	Region III	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database
<input type="radio"/>	Region IV	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database
<input type="radio"/>	Region V	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database
<input type="radio"/>	Region VII	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database
<input type="radio"/>	Region IX	<ul style="list-style-type: none">• Pending FIRM Panels• Pending FIRM Reports• Pending FIRM Database

MSC 3.0 Overview – HTTP Direct Download

- **All products can be downloaded without going to the MSC website**
 - Standard web address for each product type
 - Product IDs are URL suffixes
 - PDF Fact Sheet on FEMA.gov
- **Connect to MSC products from your own maps!**
 - Use the direct URL from your website map features, e.g. Preliminary maps on the MSC downloaded from a county website's map index



Flood Hazard Products Direct Download

Standardized Web Address Format for Information Available through the FEMA Flood Map Service Center

The FEMA Flood Map Service Center (MSC) is the official online source for flood hazard information produced under the National Flood Insurance Program (NFIP). All flood mapping products, such as Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FIS), and National Flood Hazard Layer (NFHL) geodatabases, are available for free download.

Users may take advantage of the [Search by Address](#) or [Search All Products](#) features of the MSC to locate products for their area of interest. In addition, a standardized web address (URL) format is available that enables users to view FIRMs or download any available flood hazard products directly, without having to navigate through the MSC or complete a search.

Communities and other local entities can take advantage of this feature to provide direct links to their respective flood maps and other flood hazard products on their own websites. A small community that is covered by just a few FIRM panels, for instance, could identify which panels cover which areas and then create links to view and/or download them. Then the link can be labeled using a naming convention recognizable by the locality, e.g., "Northwest Section of Town," "Downtown," "Riverbank Area," etc.

Larger municipalities that are covered by numerous FIRM panels could embed links within an image map of their community. Clicking on a particular point on the map would initiate a view window and/or download of the FIRM panel covering that point. Many communities make use of image maps of this kind – an example from the City of Sioux Falls, SD may be found at <http://www.siouxfalls.org/parks/bike/trail/view-map.aspx>.

Jurisdictions may also take advantage of this feature to provide product view and download functionality through their own GIS applications and viewers. The [FEMA GeoPlatform](http://fema.maps.arcgis.com) (<http://fema.maps.arcgis.com>), for example, combines the direct download functionality with a map viewer interface.

Visit the FEMA Flood Map Service Center (MSC) at
<http://msc.fema.gov>

Questions?
Contact the FEMA Map Information eXchange (FMIX)
Toll free: 1-877-FEMA-MAP (1-877-336-2627)
FEMAMapSpecialist@riskmapcdis.com

Hours of Operation: Monday - Friday, 8:00 am - 6:30 pm ET

Try our Live Chat Service, available 9:00 am to 5:00 pm ET on the MSC

For information about flood insurance, visit the NFIP website
<http://www.FloodSmart.gov>

To view FEMA GIS data, visit the FEMA GeoPlatform
<http://fema.maps.arcgis.com>

RiskMAP
Increasing Resilience Together

March 2015 <http://msc.fema.gov> 1-877-FEMA MAP

MSC 3.0 Service Pack 4 Highlights

■ MSC SP04 deployed on May 16, 2015

- Allows for full county searches
 - Returns products for all communities within a county FIPS code
- Clarifies text descriptions of full county and county unincorporated areas
- Clarifies *Search All Products* option on MSC home page
- Adds free text search to *Product Availability Page*
- Improves clarity of “Help” options
- Fixes bugs associated with bundling and email notification urls
- Improves visibility of NFHL and “All Products” options on *Address Search Page*



Product Availability

Search the catalog below for the **last 12 months of updates** to FEMA's flood maps and accompanying products. Visit the [Products And Tools webpage](#) for more information about each type of product.

Features of the Product Availability catalog:

- Select the tabs at the top to view the availability of different products types.
- Sort the product list by selecting the column headers.
- Click the “?” icons for more information about each field.
- Find new product listings here, which are organized by MSC posting Date by default. The catalog is updated daily.

To download a product, click the hyperlinked FEMA Community Identification Number (CID), which for countywide study projects may be the county Federal Information Processing Standards (FIPS) code with the letter “C” added at the end. You will be redirected to the Search All Products portal, where the search results for that CID will be displayed, and you will be able to download the desired product.

Final Regulatory Products ?

Final Regulatory Products Preliminary Regulatory Products

Search:

Community ID ?	Community Name	State	Effective Date ?	# of FIRM Panels ?	MSC Posting Date ?	NTU ?
309078	STILLWATER COUNTY UNINCORPORATED AREAS	MT	10/16/2015	78	05/29/2015	N
06031C	KINGS COUNTY ALL JURISDICTIONS	CA	09/16/2015	11	05/28/2015	N
38059C	MORTON COUNTY ALL JURISDICTIONS	ND	10/16/2015	21	05/28/2015	N
44903C	KENT COUNTY ALL JURISDICTIONS	RI	10/02/2015	22	05/28/2015	N
44907C	PROVIDENCE COUNTY ALL JURISDICTIONS	RI	10/02/2015	39	05/28/2015	N
19057C	DES MOINES COUNTY ALL JURISDICTIONS	IA	10/16/2015	14	05/27/2015	N
429787	PHILADELPHIA, CITY OF	PA	11/18/2015	21	05/27/2015	N
65023C	CRAWFORD COUNTY ALL JURISDICTIONS	WI	10/16/2015	81	05/22/2015	N
06013C	CONTRA COSTA COUNTY ALL JURISDICTIONS	CA	09/30/2015	53	05/21/2015	N
42069C	GREENE COUNTY ALL JURISDICTIONS	PA	10/16/2015	83	05/21/2015	N
38097C	TRAILL COUNTY ALL JURISDICTIONS	ND	10/16/2015	21	05/19/2015	N
19115C	LOUISA COUNTY ALL JURISDICTIONS	IA	10/16/2015	7	05/15/2015	N
65131C	WASHINGTON COUNTY ALL JURISDICTIONS	WI	10/16/2015	54	05/15/2015	N
18127C	PORTER COUNTY ALL JURISDICTIONS	IN	09/30/2015	58	05/14/2015	N
21115C	JOHNSON COUNTY ALL JURISDICTIONS	KY	09/16/2015	32	05/14/2015	N
27987C	KANDIYOHI COUNTY ALL JURISDICTIONS	MN	09/30/2015	16	05/13/2015	N
31107C	KNOX COUNTY ALL JURISDICTIONS	NE	10/02/2015	5	05/13/2015	N

MSC 3.0 Service Pack 5 Highlights

■ MSC SP05 deployed on September 19, 2015

- Use FEMA's Community Layer to generate community information for the "Show All Products" option in Address Search
- Expands Search All Products default results to 100 products per page
- Introduced new validation components for geography data
- Employed new security steps for Hazus downloads

The screenshot displays the Flood Map Service Center website interface. At the top, there is a navigation bar with links for "MSC Home", "MSC Search", "MSC Products and Tools", "MSC How-To", and "MSC Email Subscriptions". The "MSC Search" link is highlighted. Below the navigation bar, the "Search by Address" section is active, showing the search results for "Millersville, PA". The results include the flood map number "42071C0501E" and the effective date "04/19/2005". There are three icons for "VIEW MAP", "SAVE MAP", and "INTERACTIVE MAP". A "Show all products for this area" link is also present. Below the search results, there is a section for "Letters of Map Change" with sub-sections for "Revisions (0)", "Amendments (0)", and "Revalidations (0)". The main map area shows a satellite view of Millersville, PA, with a red location pin and a blue boundary line indicating the selected flood map boundary. A legend in the bottom left corner of the map area defines the boundary types: "Selected Flood Map Boundary" (blue line), "Printed Flood Map Boundary" (black line), "Non-printed Flood Map Boundary" (dashed black line), and "Unmapped Area" (grey area). The map is powered by Esri, HERE, DeLorme, NGA, USGS, and other data providers.

Accessing the NFHL – From *Address Search*

- Quick link from completed Address Search to NFHL on Geoplatform
- Geoplatform – ArcGIS Online based GIS viewer
- Uses USGS base map that conforms to FEMA's specification for horizontal accuracy

The screenshot shows the Flood Map Service Center interface. At the top, there is a navigation bar with links for 'MSC Home', 'MSC Search', 'MSC Products and Tools', 'MSC How-To', and 'MSC Email Subscriptions'. Below the navigation bar, the 'Search by Address' section is active, with the search input field containing 'white house'. The results show the location in the 'DISTRICT OF COLUMBIA' with a flood map number '1100010018C' effective on '09/27/2010'. A legend in the bottom left corner identifies the map features: 'Selected Flood Map Boundary' (blue outline), 'Printed Flood Map Boundary' (orange outline), 'Non-printed Flood Map Boundary' (dotted orange outline), and 'Unmapped Area' (blue square). The map itself shows a street grid in Washington, D.C., with a red pin marking the location of the White House. A text box on the right explains that users can pan the map, use the search field, or save the map as a zip file.

Accessing the NFHL – FEMA Geoplatform

HOME ▾ FEMA's National Flood Hazard Layer (Official) MODIFY MAP [Sign In](#)

Details | Basemap | Share | Print | Measure | Find address or place

About | Content | Legend

Legend

NFHL (click to expand)

- FIRM Panels
- Cross-Sections
- Flood Hazard Boundaries
 - Other Boundaries
 - Limit Lines
 - SFHA / Flood Zone Boundary
- Flood Hazard Zones
 - 1% Annual Chance Flood Hazard
 - Regulatory Floodway
 - Special Floodway
 - Area of Undetermined Flood Hazard
 - 0.2% Annual Chance Flood Hazard
 - Future Conditions 1% Annual Chance Flood Hazard
 - Area with Reduced Risk Due to Levee

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Accessing the NFHL – Layers on Geoplatform

HOME ▾ FEMA's National Flood Hazard Layer (Official) MODIFY MAP [Sign In](#)

Details | Basemap | Share | Print | Measure |

About | Content | Legend

Contents

- NFHL (click to expand)
 - NFHL Availability
 - LOMRs
 - LOMAs
 - FIRM Panels
 - Base Index
 - PLSS
 - Topological Low Confidence Areas
 - River Mile Markers
 - Datum Conversion Points
 - Coastal Gages
 - Gages
 - Nodes
 - High Water Marks
 - Station Start Points
 - Cross-Sections
 - Coastal Transects
 - Base Flood Elevations
 - Profile Baselines
 - Transect Baselines
 - Limit of Moderate Wave Action
 - Water Lines
 - Coastal Barrier Resources System Area
 - Political Jurisdictions
 - Levees
 - General Structures

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Accessing the NFHL – Layers on Geoplatform

HOME ▾ FEMA's National Flood Hazard Layer (Official) MODIFY MAP [Sign In](#)

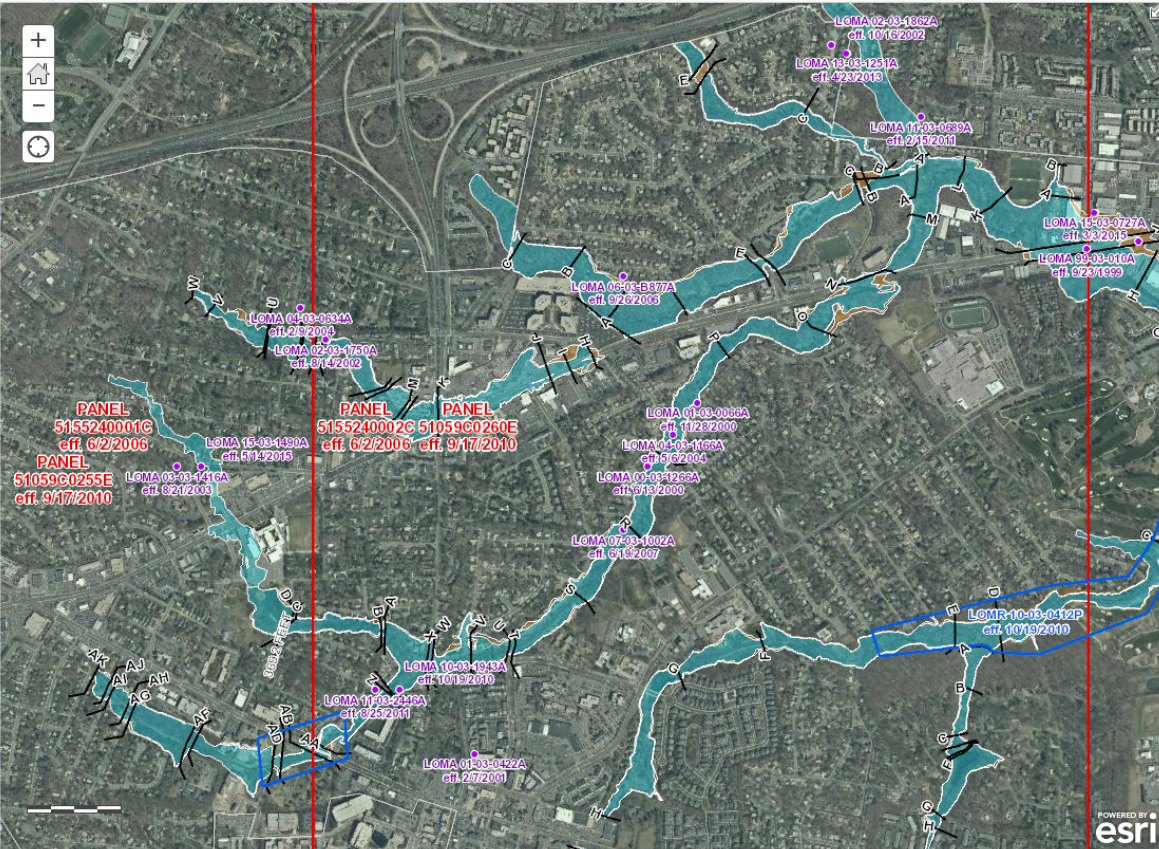
[Details](#) [Basemap](#) [Share](#) [Print](#) [Measure](#)

[About](#) [Content](#) [Legend](#)

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Map showing FEMA's National Flood Hazard Layer (NFHL) overlaid on an aerial view of a city area. The map displays various flood hazard zones, including LOMAs (Local Flood Hazard Areas) and LOMRs (Local Flood Hazard Reduction Areas), along with FIRM Panels (Flood Insurance Rate Maps). The map includes a legend on the left and navigation controls on the top left. The NFHL is shown in light blue, and various flood hazard zones are labeled with codes and effective dates. The map is powered by Esri.

Accessing the NFHL – Direct to Geoplatform

HOME ▾ FEMA's National Flood Hazard Layer (Official) NEW MAP [Sign In](#)

Details Add ▾ Basemap | Share Print Measure Bookmarks Find address or place 🔍

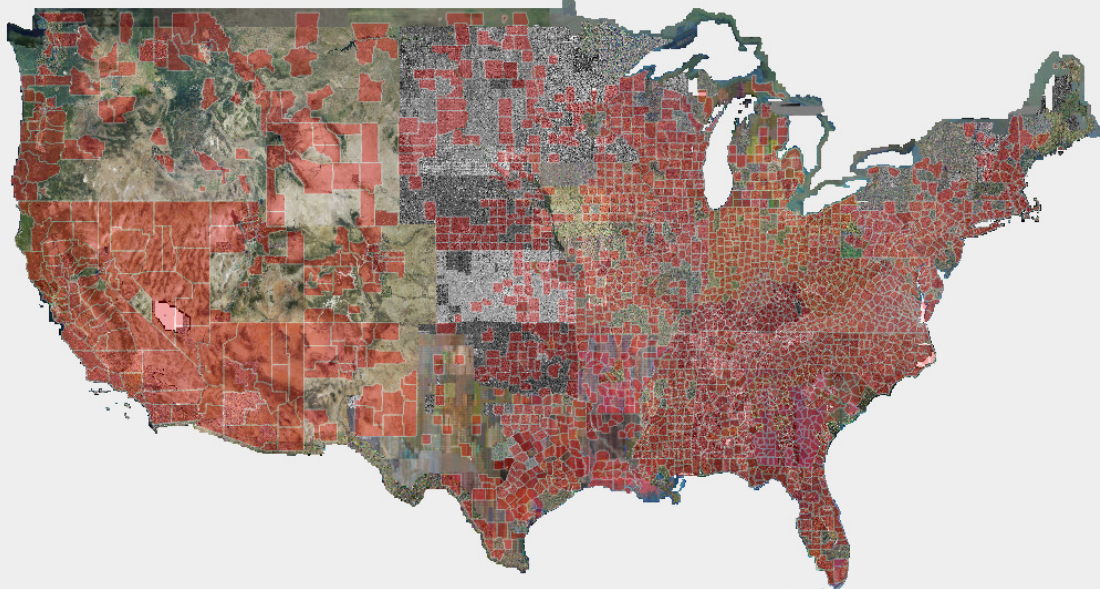
About Content Legend


Legend

NFHL (click to expand)

NFHL Availability

- NFHL Available



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Accessing the NFHL - NFHL Status Page

- **Check the status of the NFHL services**
- **Download NFHL extracts from the MSC**
- **Filter and sort to find newly posted extracts, or geographic areas of interest**

Notice - New versions (V3.0.1) of the Keyhole Markup Language (.kmz) files for viewing the FEMA Stay Dry and National Flood Hazard Layer (NFHL) overlays in Google Earth have been released. Users of the previous versions should upgrade to the new version. Below are direct links to download the newest kmz versions:











- [Stay Dry v3.0.1 kmz](#)
- [FEMA NFHL v3.0.1 kmz](#)

Visit the [Using the National Flood Hazard Layer Web Map Service \(WMS\) in Google Earth](#) page for instructions on how to view the overlays in Google Earth using the new kmz files.

Alerts

Description	Estimated Time to Resolution	Last Updated (ET)
The system is fully functional.	NA	NA

NFHL Inventory Table

Item ID	County/Community	State	Update Date	Size	Download
01001C-NFHL	AUTAUGA COUNTY	ALABAMA	09/24/2014	95MB	
01003C-NFHL	BALDWIN COUNTY	ALABAMA	02/23/2015	48MB	
01005C-NFHL	BARBOUR COUNTY	ALABAMA	08/18/2009	7MB	
01007C-NFHL	BIBB COUNTY	ALABAMA	08/18/2009	21MB	
01009C-NFHL	BLOUNT COUNTY	ALABAMA	08/03/2009	7MB	
01011C-NFHL	BULLOCK COUNTY	ALABAMA	09/11/2009	5MB	
01013C-NFHL	BUTLER COUNTY	ALABAMA	09/11/2009	5MB	
01015C-NFHL	CALHOUN COUNTY	ALABAMA	02/28/2011	7MB	
01017C-NFHL	CHAMBERS COUNTY	ALABAMA	02/18/2011	13MB	
01019C-NFHL	CHEROKEE COUNTY	ALABAMA	01/19/2011	71MB	

Showing 1 to 10 of 2,273 entries

Accessing the NFHL - MSC Subscriptions

- Create a profile with just email address and password
- Subscribe for notifications when the NFHL is updated in your area
- Select your preferred email frequency

Email Subscriptions

Welcome, daniel.horner@associates.fema.dhs.gov.

[Manage Email Subscriptions](#) [Edit Profile](#)

[Recently Posted Subscribed Products](#)

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.

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](#)

Accessing the NFHL - MSC Subscriptions

- Download State or County extracts from your custom subscription

Need Help ? Flood Map Service Center Logout

MSC Home MSC Search MSC Products and Tools MSC How-To MSC Email Subscriptions

Recently Posted Subscribed Products

[Manage Your Subscriptions](#)

Product Updates

You are viewing products posted in the last 45 days.

SOUTH CAROLINA

- LANCASTER COUNTY
 - EffectiveProducts(2)
 - FRM Panels(0)
 - RS Reports(0)
 - LOMIC(0)
 - NFHL Data-State(1)
 - NFHL Data-County(1)
 - Preliminary Products(0)
 - Pending Product(0)
 - Flood Risk Products(0)

Product ID	Latest Study Effective Date	Latest LOMR Effective Date	Size	Download
NFHL_45057C	06/16/2011	04/23/2015	68MB	

Accessing the NFHL - Other Access Methods

- **Google Earth**
- **Representative State Transfer Service (REST)**
- **Web Feature Service (WFS)**
- **Web Map Service (WMS)**
- Detailed information is available in the FEMA online document library at <http://www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/national-flood-hazard-layer-nfhl>
- Or just Google “FEMA NFHL”

What's Next?

- **Updating the MSC to use the new FEMA.gov style sheets**
- **Actively working with FEMA to develop and deploy a NFHL “FIRMette” capability**
- **Subscription notification enhancements**
- **Evolution of Flood Risk Products data hosting**

- **What do you need to better communicate flood risk to your stakeholders or industry colleagues?**

QUESTIONS?

Thank You for Attending!

daniel.horner@associates.fema.dhs.gov