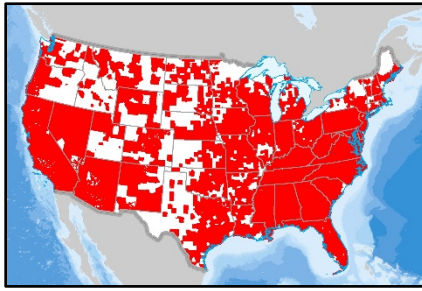


## 100 Year Flood Zone



### Tags

Hydrology, Environment, Inland Waters, Structure, Transportation, Elevation, FIRM, FEMA Flood Hazard Zone, FIRM Database, Special Flood Hazard Area, Flood Insurance Rate Map, CBRS, Coastal Barrier Resources System, Riverine Flooding, Coastal Flooding, NFIP, Base Flood Elevation, SFHA, Floodway

### FGDC Metadata

#### Identification

##### CITATION

###### CITATION INFORMATION

ORIGINATOR Federal Emergency Management Agency

PUBLICATION DATE 2015-01-30

###### TITLE

National Flood Hazard Layer

EDITION Version 1.1.1.0

GEOSPATIAL DATA PRESENTATION FORM FEMA-NFHL

###### PUBLICATION INFORMATION

PUBLICATION PLACE Washington, D.C.

PUBLISHER Federal Emergency Management Agency

ONLINE LINKAGE <https://msc.fema.gov>

##### DESCRIPTION

###### ABSTRACT

The National Flood Hazard Layer (NFHL) data incorporates all Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. It is updated on a monthly basis. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs.

The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The primary risk classifications used are the 1-percent-annual-chance flood event, the 0.2-percent-annual-chance flood event, and areas of minimal flood risk. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available. The FISs and FIRMs are published by FEMA.

The NFHL is available as State or US Territory data sets. Each State or Territory data set consists of all FIRM Databases and corresponding LOMRs available on the publication date of the data set.

The specification for the horizontal control of FIRM Databases is consistent with those required for mapping at a scale of 1:12,000. This file is georeferenced to the Earth's surface using the Geographic Coordinate System (GCS) and North American Datum of 1983 (NSRS-2007).

## PURPOSE

The FIRM is the basis for floodplain management, mitigation, and insurance activities for the National Flood Insurance Program (NFIP). Insurance applications include enforcement of the mandatory purchase requirement of the Flood Disaster Protection Act, which "... requires the purchase of flood insurance by property owners who are being assisted by Federal programs or by Federally supervised, regulated or insured agencies or institutions in the acquisition or improvement of land facilities located or to be located in identified areas having special flood hazards," Section 2 (b) (4) of the Flood Disaster Protection Act of 1973. In addition to the identification of Special Flood Hazard Areas (SFHAs), the risk zones shown on the FIRMs are the basis for the establishment of premium rates for flood coverage offered through the NFIP. The FIRM Database presents the flood risk information depicted on the FIRM in a digital format suitable for use in electronic mapping applications. The FIRM Database serves to archive the information collected during the Flood Risk Project.

## TIME PERIOD OF CONTENT

### TIME PERIOD INFORMATION

#### SINGLE DATE/TIME

CALENDAR DATE 2014-12-29

### CURRENTNESS REFERENCE

Publication Date

## STATUS

PROGRESS In work

MAINTENANCE AND UPDATE FREQUENCY Monthly

## SPATIAL DOMAIN

### BOUNDING COORDINATES

WEST BOUNDING COORDINATE -172

EAST BOUNDING COORDINATE 147

NORTH BOUNDING COORDINATE 72

SOUTH BOUNDING COORDINATE -15

## KEYWORDS

### THEME

THEME KEYWORD THESAURUS ISO 19115 Topic Category

THEME KEYWORD Hydrology

THEME KEYWORD Environment

THEME KEYWORD Inland Waters

THEME KEYWORD Structure

THEME KEYWORD Transportation

THEME KEYWORD Elevation

### THEME

THEME KEYWORD THESAURUS FEMA NFIP Topic Category

THEME KEYWORD FIRM

THEME KEYWORD FEMA Flood Hazard Zone

THEME KEYWORD FIRM Database

THEME KEYWORD Special Flood Hazard Area

THEME KEYWORD Flood Insurance Rate Map

THEME KEYWORD CBRS

THEME KEYWORD Coastal Barrier Resources System

THEME KEYWORD Riverine Flooding

THEME KEYWORD Coastal Flooding

THEME KEYWORD NFIP

THEME KEYWORD Base Flood Elevation

THEME KEYWORD SFHA

THEME KEYWORD Floodway

## PLACE

PLACE KEYWORD THESAURUS None

PLACE KEYWORD Alabama

PLACE KEYWORD Alaska

PLACE KEYWORD American Samoa  
PLACE KEYWORD Arizona  
PLACE KEYWORD Arkansas  
PLACE KEYWORD California  
PLACE KEYWORD Colorado  
PLACE KEYWORD Connecticut  
PLACE KEYWORD Delaware  
PLACE KEYWORD District of Columbia  
PLACE KEYWORD Federated State of Micronesia  
PLACE KEYWORD Florida  
PLACE KEYWORD Georgia  
PLACE KEYWORD Guam  
PLACE KEYWORD Hawaii  
PLACE KEYWORD Idaho  
PLACE KEYWORD Illinois  
PLACE KEYWORD Indiana  
PLACE KEYWORD Iowa  
PLACE KEYWORD Kansas  
PLACE KEYWORD Kentucky  
PLACE KEYWORD Louisiana  
PLACE KEYWORD Maine  
PLACE KEYWORD Marshall Islands  
PLACE KEYWORD Maryland  
PLACE KEYWORD Massachusetts  
PLACE KEYWORD Michigan  
PLACE KEYWORD Minnesota  
PLACE KEYWORD Mississippi  
PLACE KEYWORD Missouri  
PLACE KEYWORD Montana  
PLACE KEYWORD Nebraska  
PLACE KEYWORD Nevada  
PLACE KEYWORD New Hampshire  
PLACE KEYWORD New Jersey  
PLACE KEYWORD New Mexico  
PLACE KEYWORD New York  
PLACE KEYWORD North Carolina  
PLACE KEYWORD North Dakota  
PLACE KEYWORD Northern Mariana Islands  
PLACE KEYWORD Ohio  
PLACE KEYWORD Oklahoma  
PLACE KEYWORD Oregon  
PLACE KEYWORD Palau  
PLACE KEYWORD Pennsylvania  
PLACE KEYWORD Puerto Rico  
PLACE KEYWORD Rhode Island  
PLACE KEYWORD South Carolina  
PLACE KEYWORD South Dakota  
PLACE KEYWORD Tennessee PLACE  
KEYWORD Texas  
PLACE KEYWORD Utah  
PLACE KEYWORD Vermont  
PLACE KEYWORD U.S. Minor Islands  
PLACE KEYWORD Virgin Islands  
PLACE KEYWORD Virginia  
PLACE KEYWORD Washington  
PLACE KEYWORD West Virginia  
PLACE KEYWORD Wisconsin  
PLACE KEYWORD Wyoming

ACCESS CONSTRAINTS

None

## USE CONSTRAINTS

The hardcopy FIRM and FIRM Database and the accompanying FIS are the official designation of SFHAs and Base Flood Elevations (BFEs) for the NFIP. For the purposes of the NFIP, changes to the flood risk information published by FEMA may only be performed by FEMA and through the mechanisms established in the NFIP regulations (44 CFR Parts 59-78). These digital data are produced in conjunction with the hardcopy FIRMs and generally match the hardcopy map exactly. Acknowledgement of FEMA would be appreciated in products derived from these data.

## POINT OF CONTACT

### CONTACT INFORMATION

#### CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION Federal Emergency Management Agency

#### CONTACT ADDRESS

ADDRESS TYPE mailing

ADDRESS 500 C Street, S.W.

CITY Washington

STATE OR PROVINCE District of Columbia

POSTAL CODE 20472

COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 1-877-336-2627

CONTACT ELECTRONIC MAIL ADDRESS [mscservices@riskmapcds.com](mailto:mscservices@riskmapcds.com)

## NATIVE DATA SET ENVIRONMENT

Original data development environment may vary. Finishing of the data is done using Esri's ArcGIS software. The submitted personal geodatabase was created using ArcGIS version 10.0.

## Data Quality

### ATTRIBUTE ACCURACY

#### ATTRIBUTE ACCURACY REPORT

The NFHL incorporates all FIRM Databases published by FEMA and any LOMRs that have been issued against those databases since their publication date. The NFHL consists of vector files and associated attributes produced in conjunction with the hardcopy FEMA FIRM. The published effective FIRM and FIRM Database are issued as the official designation of the SFHAs. As such they are adopted by local communities and form the basis for administration of the NFIP. For these purposes they are authoritative. Provisions exist in the regulations for public review, appeals and corrections of the flood risk information shown to better match real world conditions. As with any engineering analysis of this type, variation from the estimated flood heights and floodplain boundaries is possible. Details of FEMA's requirements for the FISs and flood mapping process that produces these data are available in the Guidelines and Standards for Flood Risk Analysis and Mapping. Attribute accuracy was tested by manual comparison of source graphics with hardcopy plots and a symbolized display on an interactive computer graphic system. Independent quality control testing of the individual FIRM Database components of the NFHL was also performed. To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the FIS reports that accompany the individual FIRM Database components of the NFHL. Users should be aware that BFEs shown in the S\_BFE table may represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report must be used in conjunction with the FIRM for purposes of construction and/or floodplain management. The 1-percent-annual-chance water-surface elevations shown in the S\_XS table match the regulatory elevations shown in the FIS report.

### LOGICAL CONSISTENCY REPORT

When FEMA revises an FIS, adjacent studies are checked to ensure agreement between flood elevations at the boundaries. Likewise flood elevations at the confluence of streams studied independently are checked to ensure agreement at the confluence. The FIRM and the FIS are developed together and care is taken to ensure that the elevations and other features shown on the flood profiles in the FIS agree with the information shown on the FIRM. However, the elevations as shown on the FIRM may represent rounded whole-foot elevations. They must be shown so that a

profile recreated from the elevations on the FIRM will match the FIS profiles within one half of one foot.

## COMPLETENESS REPORT

Data contained in the NFHL reflects the content of the source materials. Features may have been eliminated or generalized on the source graphic, due to scale and legibility constraints. With new mapping, FEMA plans to maintain full detail in the spatial data it produces. However, older information is often transferred from existing maps where some generalization has taken place. Flood risk data are developed for communities participating in the NFIP for use in insurance rating and for floodplain management. Flood hazard areas are determined using statistical analyses of records of river flow, storm tides, and rainfall; information obtained through consultation with the communities; floodplain topographic surveys; and hydrological and hydraulic analysis. Generally, regulatory water surface elevations and/or regulatory floodways are published only for developed or developing areas of communities. For areas where little or no development is expected to occur, FEMA may generate flood risk data without published water surface elevations. Typically, only drainage areas that are greater than one square mile and with an average of one foot of flood depth or greater are studied.

Note: The NFHL reflects the most current information available when the distribution data set was created. Currently, not all areas of a State or Territory have effective FIRM Database data. As a result, users may need to refer to the effective FIRM for effective flood hazard information.

## POSITIONAL ACCURACY

### HORIZONTAL POSITIONAL ACCURACY

#### HORIZONTAL POSITIONAL ACCURACY REPORT

The NFHL consists of vector files and associated attributes produced in conjunction with the hardcopy FEMA FIRM. The published effective FIRM and FIRM Database are issued as the official designation of the SFHAs. As such they are adopted by local communities and form the basis for administration of the NFIP. For these purposes they are authoritative. Provisions exist in the regulations for public review, appeals and corrections of the flood risk information shown to better match real world conditions. As with any engineering analysis of this type, variation from the estimated flood heights and floodplain boundaries is possible. Details of FEMA's requirements for the FISs and flood mapping process that produces these data are available in the Guidelines and Standards for Flood Risk Analysis and Mapping. Horizontal accuracy was tested by manual comparison of source graphics with hardcopy plots and a symbolized display on an interactive computer graphic system. Independent quality control testing of the individual FIRM Database components of the NFHL was also performed.

### VERTICAL POSITIONAL ACCURACY

#### VERTICAL POSITIONAL ACCURACY REPORT

The NFHL consists of vector files and associated attributes produced in conjunction with the hardcopy FEMA FIRM. The published effective FIRM and FIRM Database are issued as the official designation of the SFHAs. As such they are adopted by local communities and form the basis for administration of the NFIP. For these purposes they are authoritative. Provisions exist in the regulations for public review, appeals and corrections of the flood risk information shown to better match real world conditions. As with any engineering analysis of this type, variation from the estimated flood heights and floodplain boundaries is possible. Details of FEMA's requirements for the FISs and flood mapping process that produces these data are available in the Guidelines and Standards for Flood Risk Analysis and Mapping.

The reliability of the floodplain boundary delineation is quantified by comparing the computed flood elevation to the ground elevation at the mapped floodplain boundary. The tolerance for how precisely the flood elevation and the ground elevation must match varies based on the flood risk class, which is a function of population, population density, and/or anticipated growth in floodplain areas. A horizontal accuracy of +/- 38 feet is used to determine the compliance with the vertical tolerances defined for each risk class. The range of differences between the ground elevation (defined from the topographic data used for the Flood Risk Project) and the computed flood elevation is between +/- 1.0 foot at the 95% confidence interval for areas with high population within the floodplain and/or high anticipated growth and Special Flood Hazard Areas (SFHAs) with high flood risk to +/- one-half the contour interval at the 85% confidence interval for areas with low population and densities within the floodplain and small or no anticipated growth and SFHAs with low flood risk. Independent quality control testing of the individual FIRM Database components of the NFHL was also performed.



## LINEAGE

### PROCESS STEP

#### PROCESS DESCRIPTION

The NFHL dataset is a compilation of effective FIRM Databases (a collection of the digital data that are used in GIS systems for creating new Flood Insurance Rate Maps) and Letters of Map Change (Letters of Map Amendment and Letters of Map Revision only) that create a seamless GIS data layer for a State or Territory. It is updated on a monthly basis.

The FIRM Databases are compiled in conjunction with the hardcopy FIRMs and the final FIS reports. The specifics of the hydrologic and hydraulic analyses performed are detailed in the FIS reports available for each jurisdiction. The results of these studies are submitted in digital format to FEMA. These data and unrevised data from effective FIRMs are compiled onto the base map used for FIRM publication and checked for accuracy and compliance with FEMA standards. As new FIRM Databases are received the individual FIRM layers are sewn into the nationwide layers of the NFHL. LOMRs for the FIRM Databases in the NFHL are cut directly into the NFHL data layers as they are being produced and finalized.

PROCESS DATE 2015-01-30

## Spatial Reference

### HORIZONTAL COORDINATE SYSTEM DEFINITION

#### GEOGRAPHIC

LATITUDE RESOLUTION 1.3096e-009

LONGITUDE RESOLUTION 1.3096e-009

GEOGRAPHIC COORDINATE UNITS Decimal degrees

#### GEODETTIC MODEL

HORIZONTAL DATUM NAME North American Datum of 1983 NSRS2007

ELLIPSOID NAME Geodetic Reference System 80

SEMI-MAJOR AXIS 6378137.0

DENOMINATOR OF FLATTENING RATIO 298.257222101

### VERTICAL COORDINATE SYSTEM DEFINITION

#### ALTITUDE SYSTEM DEFINITION

ALTITUDE DATUM NAME North American Vertical Datum of 1988 and National Geodetic Vertical Datum of 1929

ALTITUDE RESOLUTION 0.03

ALTITUDE DISTANCE UNITS feet

ALTITUDE ENCODING METHOD Attribute values

## Entities and Attributes

### DETAILED DESCRIPTION

#### ENTITY TYPE

ENTITY TYPE LABEL S\_Alluvial\_Fan

#### ENTITY TYPE DEFINITION

Location and attributes for alluvial fan areas shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

### DETAILED DESCRIPTION

#### ENTITY TYPE

ENTITY TYPE LABEL S\_Base\_Index

#### ENTITY TYPE DEFINITION

Location and attributes for a tiling index for raster data used for the FIRM base map.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_BFE

##### ENTITY TYPE DEFINITION

Location and attributes for base flood elevations lines shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_CBRS

##### ENTITY TYPE DEFINITION

Location and attributes for Coastal Barrier Resource System units shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Cst\_Gage

##### ENTITY TYPE DEFINITION

Location and attributes for the coastal gages for the study area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Cst\_Tsct\_Ln

##### ENTITY TYPE DEFINITION

Location and attributes for coastal transect lines shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Datum\_Conv\_Pt

##### ENTITY TYPE DEFINITION

Location and attributes for points used to calculate vertical datum conversion factors.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_FIRM\_Pan

##### ENTITY TYPE DEFINITION

Location and attributes for FIRM hardcopy map panels.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Fld\_Haz\_Ar

##### ENTITY TYPE DEFINITION

Location and attributes flood insurance risk zones shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Fld\_Haz\_Ln

##### ENTITY TYPE DEFINITION

Location and attributes for boundaries of flood insurance risk zones shown on the FIRM.  
ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Gage

##### ENTITY TYPE DEFINITION

Location and attributes for riverine gages used to determine discharges for the study area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Gen\_Struct

##### ENTITY TYPE DEFINITION

Location and attributes for flood control structures shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_HWM

##### ENTITY TYPE DEFINITION

Location and attributes for historic high water marks for the study area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Hydro\_Reach

##### ENTITY TYPE DEFINITION

Location and attributes for lines that represent the connectivity between the subbasins and flow direction between nodes within the study area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Label\_Ld

##### ENTITY TYPE DEFINITION

Location and attributes for leader lines for labels shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Label\_Pt

##### ENTITY TYPE DEFINITION

Location and attributes for labels shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Levee

##### ENTITY TYPE DEFINITION

A spatial dataset consisting of lines that represent the centerlines of levees.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).



#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_LimWA

##### ENTITY TYPE DEFINITION

A spatial data set consisting of lines that depict the limit of 18-inch or greater coastal waves in a Coastal AE Zone.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_LOMR

##### ENTITY TYPE DEFINITION

A spatial data set consisting of polygons that depict effective LOMRs that have been incorporated into the NFHL since the last publication of the FIRM panel for the area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Nodes

##### ENTITY TYPE DEFINITION

Location and attributes of points that depict locations of computed discharges for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_PFD\_Ln

##### ENTITY TYPE DEFINITION

Location and attributes for the primary frontal dune features for the coastal study area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_PLSS\_Ar

##### ENTITY TYPE DEFINITION

Location and attributes of sections, townships and ranges shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Pol\_Ar

##### ENTITY TYPE DEFINITION

Location and attributes for political jurisdictions shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Profil\_BasLn

##### ENTITY TYPE DEFINITION

A spatial data set consisting of lines showing the flow path used for floodplain modeling and mapping.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Riv\_Mrk

##### ENTITY TYPE DEFINITION

Location and attributes for river mile markers shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Stn\_Start

##### ENTITY TYPE DEFINITION

A spatial data set consisting of points indicating the location of the reference point that was used as the origin for distance measurements along streams and rivers.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Subbasins

##### ENTITY TYPE DEFINITION

Location and attributes for subbasins used in the hydrologic analysis.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Submittal\_Info

##### ENTITY TYPE DEFINITION

A spatial data set consisting of polygons depicting the extents of the studied area.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Topo\_Confidence

##### ENTITY TYPE DEFINITION

A spatial dataset consisting of polygons depicting areas of low confidence topographic data.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Trnsport\_Ln

##### ENTITY TYPE DEFINITION

Location and attributes for roads, railroads and other transportation features shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Tsct\_Basln

##### ENTITY TYPE DEFINITION

A spatial data set consisting of lines that represent the 0.0-foot elevation contour used for coastal modeling and mapping.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

#### DETAILED DESCRIPTION

##### ENTITY TYPE

ENTITY TYPE LABEL S\_Wtr\_Ar

## ENTITY TYPE DEFINITION

Location and attributes for hydrography features shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

## DETAILED DESCRIPTION

### ENTITY TYPE

ENTITY TYPE LABEL S\_Wtr\_Ln

### ENTITY TYPE DEFINITION

Location and attributes for hydrography features shown on the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

## DETAILED DESCRIPTION

### ENTITY TYPE

ENTITY TYPE LABEL S\_XS

### ENTITY TYPE DEFINITION

Location and attributes for cross-section lines in the area covered by the FIRM.

ENTITY TYPE DEFINITION SOURCE FEMA FIRM Database Technical Reference (available on the FEMA Risk MAP Knowledge Sharing Site).

## OVERVIEW DESCRIPTION

### ENTITY AND ATTRIBUTE OVERVIEW

The NFHL is made up of several data themes containing both spatial and attribute information. These data together represent the current flood risk for the subject area as identified by FEMA. The attribute tables include SFHA locations, flood zone designations, BFEs, political entities, cross-section locations, FIRM panel information, and other data related to the NFIP.

### ENTITY AND ATTRIBUTE DETAIL CITATION

FEMA's FIRM Database Technical Reference contains a detailed description of each attribute code and a reference to other relevant information.

### ENTITY AND ATTRIBUTE DETAIL CITATION

The following tables may be included in this data set: L\_Comm\_Info L\_Comm\_Revis L\_Cst\_Model L\_Cst\_Struct L\_Cst\_Tsct\_Elev L\_ManningsN L\_Meetings L\_MT2\_LOMR L\_Mtg\_POC L\_Pan\_Revis L\_Pol\_FHBM L\_Profil\_Bkwtr\_EI L\_Profil\_Label L\_Profil\_Panel L\_Source\_Cit L\_Summary\_Discharges L\_Summary\_Elevations L\_Survey\_Pt L\_XS\_Elev L\_XS\_Struct S\_Alluvial\_Fan S\_Base\_Index S\_BFE S\_CBRS S\_Cst\_Gage S\_Cst\_Tsct\_Ln S\_Datum\_Conv\_Pt S\_FIRM\_Pan S\_Fld\_Haz\_Ar S\_Fld\_Haz\_Ln S\_Gage S\_Gen\_Struct S\_HWM S\_Hydro\_Reach S\_Label\_Ld S\_Label\_Pt S\_Levee S\_LiMWA S\_LOMR S\_Nodes S\_PFD\_Ln S\_PLSS\_Ar S\_Pol\_Ar S\_Profil\_BasIn S\_Riv\_Mrk S\_Stn\_Start S\_Subbasins S\_Submittal\_Info S\_Topo\_Confidence S\_Trnsport\_Ln S\_Tsct\_BasIn S\_Wtr\_Ar S\_Wtr\_Ln S\_XS\_Study\_Info

## Distribution Information

### DISTRIBUTOR

#### CONTACT INFORMATION

##### CONTACT ORGANIZATION PRIMARY

CONTACT ORGANIZATION FEMA, Map Service Center

##### CONTACT ADDRESS

ADDRESS TYPE mailing

ADDRESS P.O. Box 3617

CITY Oakton

STATE OR PROVINCE Virginia

POSTAL CODE 22124

COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 1-877-336-2627

CONTACT ELECTRONIC MAIL ADDRESS [mscservices@riskmapcds.com](mailto:mscservices@riskmapcds.com)

#### CONTACT INSTRUCTIONS

Data requests must include the name and FIPS code of each State or Territory covered by the

request, along with an MSC account number if applicable.

#### DISTRIBUTION LIABILITY

No warranty expressed or implied is made by FEMA regarding the utility of the data on any other system nor shall the act of distribution constitute any such warranty. FEMA will warrant the delivery of this product in a computer-readable format, and will offer appropriate adjustment of credit when the product is determined unreadable by correctly adjusted computer input peripherals, or when the physical medium is delivered in damaged condition. Requests for adjustment of credit must be made within 90 days from the date of this shipment from the ordering site.

#### STANDARD ORDER PROCESS

##### DIGITAL FORM

##### DIGITAL TRANSFER INFORMATION

FORMAT NAME ESRI Shapefile

##### DIGITAL TRANSFER OPTION

##### OFFLINE OPTION

OFFLINE MEDIA DVD

RECORDING FORMAT ISO 9660

FEES Contact Distributor

#### Metadata Reference

METADATA DATE 2020-11-05

METADATA CONTACT

##### CONTACT INFORMATION

##### CONTACT PERSON PRIMARY

CONTACT PERSON Map Service Center

CONTACT ORGANIZATION Federal Emergency Management Agency

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ADDRESS TYPE mailing

ADDRESS 500 C Street, S.W.

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STATE OR PROVINCE District of Columbia

POSTAL CODE 20472

COUNTRY UNITED STATES

CONTACT VOICE TELEPHONE 1-877-336-2627

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METADATA STANDARD NAME FGDC Content Standards for Digital Geospatial Metadata

METADATA STANDARD VERSION FGDC-STD-001-1998

#### METADATA EXTENSIONS

ONLINE LINKAGE <http://hazards.fema.gov>

ONLINE LINKAGE <http://www.epsg.org>

PROFILE NAME FEMA NFIP Metadata Content and Format Standard