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STANDARD DFIRM DATABASE, [FLOOD COUNTY, USA](#)

Identification_Information:

Citation:

Citation_Information:

Originator: [Federal Emergency Management Agency](#)

Publication Date: [20000505](#)

Title: DIGITAL FLOOD INSURANCE RATE MAP DATABASE, [FLOOD COUNTY, USA](#)

Geospatial_Data_Presentation_Form: Vector [and Raster Digital Data](#)

Publication_Information:

Publication Place: [Washington, DC](#)

Publisher: [Federal Emergency Management Agency](#)

Other_Citation_Details: Metadata File Name: [99009C19980915_metadata.htm](#)

Online_Linkage: <http://www.msc.fema.gov/>

Description:

Abstract: The Digital Flood Insurance Rate Map (DFIRM) 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 DFIRM Database is derived from Flood Insurance Studies (FISs), previously published Flood Insurance Rate Maps (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 the Federal Emergency Management Agency (FEMA). [The file is georeferenced to earth's surface using the UTM projection and coordinate system. The specifications for the horizontal control of DFIRM data files are consistent with those required for mapping at a scale of 1:12,000.](#)

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 DFIRM Database presents the flood risk information depicted on the FIRM in a digital format suitable for use in electronic mapping applications. The DFIRM database is a subset of the Digital FIS database that serves to archive the information collected during the FIS.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar Date: [19980701](#)

Currentness_Reference: FIRM and FIS effective date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Irregular

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -84.125

East_Bounding_Coordinate: -84.25

North_Bounding_Coordinate: 30.5

South_Bounding_Coordinate: 30.625

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: FEMA Flood Hazard Zone

Theme_Keyword: DFIRM Database

Theme_Keyword: DFIRM

Theme_Keyword: Special Flood Hazard Area

Theme_Keyword: Digital 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: Flood Insurance Rate Map

Theme_Keyword: FIRM

Theme_Keyword: Floodway

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: FLOOD COUNTY

Place_Keyword: USA

Access_Constraints: None

Use_Constraints: The hardcopy FIRM and DFIRM and the accompanying FISs 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. However the hardcopy flood maps and flood profiles are the authoritative documents for the NFIP.

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_Position: Federal Insurance and Mitigation Administration

Contact_Address:

Address_Type: mailing address

Address: 500 C Street, S.W.

City: Washington

State_or_Province: District of Columbia

Postal_Code: 20472

Country: USA

Contact_Voice_Telephone: 1-800-358-9616

Contact_Electronic_Mail_Address: www.msc.fema.gov/

Native_Data_Set_Environment: Original data development environment varies. Finishing of the data is done using ESRI's ARC/INFO software.

Cross_Reference:

Citation_Information:

Originator: Federal Emergency Management Agency

Publication Date: [19980701](#)

Title: *Flood Insurance Rate Map, FLOOD COUNTY, USA*

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication_Place: Washington, DC

Publisher: Federal Emergency Management Agency

Cross_Reference:

Citation_Information:

Originator: Federal Emergency Management Agency

Publication Date: [19980701](#)

Title: *Flood Insurance Study, FLOOD COUNTY, USA*

Geospatial_Data_Presentation_Form: document

Publication_Information:

Publication_Place: Washington, DC

Publisher: Federal Emergency Management Agency

Cross_Reference:

Citation_Information:

Originator: Federal Emergency Management Agency

Publication Date: [19980701](#)

Title: *Raster DFIRM, FLOOD COUNTY, USA*

Geospatial_Data_Presentation_Form: raster digital data

Publication_Information:

Publication_Place: Washington, DC

Publisher: Federal Emergency Management Agency

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: The DFIRM Database consists of [countywide vector files](#) and associated attributes produced in conjunction with the hard copy FEMA FIRM. The published effective FIRM and DFIRM maps 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 Specifications for Flood Hazard Mapping Partners. 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 FEMA's DFIRM database 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 report that accompanies this DFIRM database. Users should be aware that BFEs shown in the S_BFE table 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 are 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 DFIRM Database files reflect 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. Both detailed and approximate analyses are employed. Generally, detailed analyses are used to generate flood risk data only for developed or developing areas of communities. For areas where little or no development is expected to occur, FEMA uses approximate analyses to generate flood risk data. Typically, only drainage areas that are greater than one square mile are studied.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: The DFIRM Database consists of **countywide** vector files and associated attributes produced in conjunction with the hardcopy FEMA FIRM. The published effective FIRM and DFIRM 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 Specifications for Flood Hazard Mapping Partners. 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 FEMA's DFIRM database was also performed.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: The DFIRM Database consists of **countywide** vector files and associated attributes produced in conjunction with the hardcopy FEMA FIRM. The published effective FIRM and DFIRM maps 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 Specifications for Flood Hazard Mapping Partners. Vertical 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 FEMA's DFIRM database was also performed.

Lineage

Source_Information:

Source_Citation:

Citation_Information:

Originator: Federal Emergency Management Agency

Publication Date: 1987

Title: Flood Insurance Study, FLOOD COUNTY USA (Unincorporated areas).

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication Place: Washington, DC

Publisher: Federal Emergency Management Agency

Other_Citation_Details: The hydrologic and hydraulic analyses for the FIS dated April 17, 1987, were prepared by the U.S. Army Corps of Engineers (USACE), Springfield District, for the Federal Emergency Management Agency (FEMA), under Inter-Agency Agreement No. EMW-84-E-1506. That work was completed in December 1985. Denominator of Source Scale: 2400-12000.

Source_Scale_Denominator: 12,000

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar Date: 19870601

Source_Currentness_Reference: Effective Date

Source_Citation_Abbreviation: FIS1

Source_Contribution: Spatial and attribute information, floodplain widths, BFEs, floodplain location.

Source_Information:

Source_Citation:

Citation_Information:

Originator: Federal Emergency Management Agency

Publication Date: 1987

Title: Flood Insurance Study, FLOODVILLE, Town of

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication Place: Washington, DC

Publisher: Federal Emergency Management Agency

Other_Citation_Details: The hydrologic and hydraulic analyses for the FIS report dated April 17, 1987, were prepared by the USACE, Springfield District, for the FEMA, under Inter-Agency Agreement No. EMW-84-E-1506, Project Order No. 1, Amendment No. 4. That work was completed in December 1985. Denominator of Source Scale: 2400-12000.

Source_Scale_Denominator: 12,000

Type_of_Source_Media: paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar Date: 19870601

Source_Currentness_Reference: Effective Date

Source_Citation_Abbreviation: FIS2

Source_Contribution: Spatial and attribute information, floodplain widths, BFEs, floodplain location.

Source_Information:

Source_Citation:

Citation_Information:

Originator: Federal Emergency Management Agency

Publication Date: 1998

Title: Flood Insurance Study Report, FLOOD COUNTY, USA and Incorporated areas.

Geospatial Data Presentation Form: map

Publication_Information:

Publication Place: Washington, DC

Publisher: Federal Emergency Management Agency

Other Citation Details: For this countywide FIS, the hydrologic and hydraulic analyses were prepared by USACE for FEMA, under Inter-Agency Agreement No. EMW-94-C-0019. This work was completed in October 1995. Denominator of Source Scale: 2400-12000.

Source Scale Denominator: 12000

Type of Source Media: paper

Source Time Period of Content:

Time Period Information:

Single Date/Time:

Calendar Date: 19980701

Source Currentness Reference: Effective Date

Source Citation Abbreviation: FIS3

Source Contribution: Spatial and attribute information, floodplain widths, BFEs, floodplain location.

Source_Information:

Source_Citation:

Citation_Information:

Originator: Town of Floodville Stormwater Management Department, 126 Royal Oaks Drive, Suite 201, Floodville, USA 99150

Publication Date: 1995

Title: Base map for Floodville, USA

Geospatial Data Presentation Form: vector digital data

Publication_Information:

Publication Place: Floodville, USA

Publisher: Town of Floodville Stormwater Management

Other Citation Details: These files were photogrammetrically compiled at scales of 1"=200' (urban areas) and 1"=400' (rural areas) from aerial photographs.

Source Scale Denominator: 4,800

Type of Source Media: CD-ROM

Source Time Period of Content:

Time Period Information:

Single Date/Time:

Calendar Date: 19950301

Source Currentness Reference: ground conditions

Source Citation Abbreviation: BASE1

Source Contribution: Location of roads, railroads, bridges, streams and other physical features shown.

Source_Information:

Source_Citation:

Citation_Information:

Originator: Flood County Geographic Information Systems Department, 1110 South Road, Suite 205, Floodville, USA 99150

Publication Date: 1995

Title: Base map for Flood County, USA

Geospatial Data Presentation Form: vector digital data

Publication_Information:

Publication Place: Floodville, USA

Publisher: Flood County Geographic Information Systems Department

Other Citation Details: These files were photogrammetrically compiled at scales of 1"=200' (urban areas) and 1"=400' (rural areas) from aerial photographs.

Source Scale Denominator: 4,800

Type of Source Media: CD-ROM

Source Time Period of Content:

Time Period Information:

Single Date/Time:

Calendar Date: 19950301

Source Currentness Reference: ground conditions

Source Citation Abbreviation: BASE2

Source Contribution: Location of roads, railroads, bridges, streams and other physical features shown.

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Geological Survey

Publication Date: 1998

Title: Digital Orthophoto Quadrangle

Geospatial Data Presentation Form: remote-sensing image

Publication Information:

Publication Place: Reston, VA

Publisher: U.S. Geological Survey

Other Citation Details: The digital orthophoto quadrangle (DOQ) is a 1-meter ground resolution, quarter-quadrangle (3.75-minutes of latitude by 3.75-minutes of longitude) image cast on the Universal Transverse Mercator Projection (UTM) on the North American Datum of 1983 (NAD83). The imagery is based on panchromatic black and white (or color infra-red) NAPP or NAPP-like photography.

Source Scale Denominator: 12,000

Type of Source Media: CD-ROM

Source Time Period of Content:

Time Period Information:

Single Date/Time:

Calendar Date: 19970301

Source Currentness Reference: ground conditions

Source Citation Abbreviation: BASE3

Source Contribution: Location of roads, railroads, bridges, streams and other physical features shown.

Process_Step:

Process Description: The DFIRM Database is compiled in conjunction with the hardcopy FIRM and the final FIS report. The specifics of the hydrologic and hydraulic analyses performed are detailed in the FIS report. 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 DFIRM publication and checked for accuracy and compliance with FEMA standards.

Source Used Citation Abbreviation: FIS1-FIS3, BASE1-BASE3

Process Date: 1996

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector and raster

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains
Raster Object Information:
Raster Object Type: Pixel

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal Transverse Mercator:
UTM_Zone_Number: 16
Transverse Mercator:
Scale Factor at Central Meridian: 0.9996
Longitude of Central Meridian: -87.0
Latitude of Projection Origin: 0.0
False Easting: 500000
False Northing: 0.0

Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: Coordinate Pair
Coordinate_Representation:
Abscissa_Resolution: 0.061
Ordinate_Resolution: 0.061
Planar_Distance_Units: meters

Geodetic_Model:
Horizontal_Datum_Name: North American Datum 1983
Ellipsoid Name: Geodetic Reference System 80
Semi-major Axis: 6378206.4
Denominator of Flattening Ratio: 294.98

Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude Datum Name: North American Vertical Datum of 1988
Altitude Resolution: 0.03
Altitude Distance Units: feet
Altitude_Encoding_Method: Attribute Values

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview: The DFIRM Database 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: Appendix L of FEMA's Guidelines and Specifications for FEMA Flood Hazard Mapping Partners contains a detailed description of each attribute code and a reference to other relevant information.

The following tables are included in this data set:

- S_BFE
- S_Fld_Haz_Ar
- S_Fld_Haz_Ln
- S_Gen_Struct
- S_LOMR
- L_Stn_Start
- S_XS
- L_Wtr_Nm
- S_Base_Index

S_Perm_Bmk
S_PLSS_Ar
S_PLSS_Ln
S_Pol_Ar
S_Pol_Ln
S_Quad_Index
S_Label_Ld
S_Trnsport_Ln
S_Label_Pt

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: FEMA, Map Service Center

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 1038

City: Jessup

State_or_Province: Maryland

Postal_Code: 20794-1038

Country: USA

Contact_Voice_Telephone: 1-800-358-9616

Contact_Electronic_Mail_Address: www.msc.fema.gov/

Contact_Instructions: Data requests must include the full name of the community or county and the FIRM panel number(s) or the 7.5- minute series quadrangle sheet area(s) covered by the request.

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:

Non-digital_Form: Printed DFIRMs that match this data set are available from FEMA at the Map Service Center, cited above.

Digital_Form:

Digital_Transfer_Information:

Format_Name: ESRI Shapefile

Format_Version_Number: 1

Digital_Transfer_Option:

Offline_Option:

Offline_Media: CD-ROM

Recording_Format: ISO 9660

Digital_Form:

Digital_Transfer_Information:

Format_Name: MapInfo Interchange file (MIF)

Format_Version_Number: 1

Digital_Transfer_Option:

Offline_Option:

Offline_Media: CD-ROM

Recording_Format: ISO 9660

Digital_Form:

Digital_Transfer_Information:

Format_Name: ARCE

Format_Version_Number: 1

Digital_Transfer_Option:

Offline_Option:

Offline_Media: CD-ROM

Recording_Format: ISO 9660

Fees: Contact Distributor

Metadata_Reference_Information:

Metadata_Date: 19980509

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Federal Emergency Management Agency

Contact_Position: Federal Insurance and Mitigation Administration

Contact_Address:

Address_Type: mailing address

Address: 500 C Street, S.W.

City: Washington

State_or_Province: District of Columbia

Postal_Code: 20472

Country: USA

Contact_Voice_Telephone: 1-800-358-9616

Contact_Electronic_Mail_Address: www.msc.fema.gov/

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998