FEMA Digital Products: What's on my DVD?

We are pleased to provide you with the enclosed DVD from the Federal Emergency Management Agency (FEMA) Flood Map Service Center (MSC). This DVD may contain Flood Insurance Rate Map (FIRM) Database(s) and metadata files, FIRM Scans, and/or Flood Insurance Study (FIS) reports. DVDs that include all of these revised products for a jurisdiction are generated automatically when maps are updated and sent to community officials. These digital products are part of FEMA's effort to provide map users with more powerful options for accessing and using flood hazard data.

CD/DVD Contents

- **FIRM Scans:** FIRM Scans are digital images of flood hazard maps provided in either TIF or PNG format. The images are digital pictures of entire flood map panels that can be viewed and printed from a computer. Most communities and counties have many map panels that cover the entire jurisdiction and an index map that shows the location of each map panel.

- **FIRMette Desktop Software:** This is a tool for viewing and printing flood maps using FIRM Scan data on your computer. The Desktop Installation and User Guide is available on this disc and in the FEMA library

- **FIRM Database (formerly DFIRM Database):** A FIRM Database provides Geographic Information System (GIS) flood hazard data used for mapping and analysis of a county, a community, or portion thereof.

- **FIS Report:** A FIS Report provides additional flood elevation data as well as a detailed summary of the process and data used to produce the flood profiles and FIRMs.

How To View Information On This DVD

FIRM images can be viewed using the FIRMette-Desktop software included on the DVD or any program that can view TIF or PNG files. An online version of the FIRMette tool is also available at msc.fema.gov. FIS reports are provided as PDF files and can be viewed with utilities such as Adobe Reader™ (http://get.adobe.com/reader/).

DID YOU KNOW

Digital flood data can be viewed using applications such as Google Earth™, which can create three-dimensional maps of flood hazard areas.

Web Map Service for the National Flood Hazard Layer (NFHL) portrayed with 3-D terrain and buildings in Google Earth™

Web Map Service for the National Flood Hazard Layer.

For more information, visit:
https://hazards.fema.gov/femaportal/wp

Increasing Resilience Together

The FIRM Database files are provided as Shapefiles - Arc Shape (.shp/.shx/.dbf), but may also be provided in Esri Interchange –Arc Export (.e00) and Map Info Interchange- MapInfo (.mif/.mid) formats, or Personal Geodatabase formats. FIRM Databases can be used in conjunction with GIS tools such as Esri products to customize data views and modify data to meet specific scenarios. You can also use freely available online GIS Shapefile viewing tools.

FIRM images have file names with a Community or County identifier (ID) followed by a 4-digital panel number and letter suffix representing a version (e.g. 12345C0123F.tif). They may be accompanied by worldfiles in TFW or PGW format that help view the images in GIS applications. FIS Report filenames consist of a community or county ID followed by a volume number and letter suffix representing a version (e.g. 12345CV000A.pdf).

For more information on available digital products, visit FEMA's MSC website at http://msc.fema.gov or call the FEMA Map Information eXchange (FMIX) at 877-336-2627.

Supplementary Information Included on the Disc

Several files are provided on the disc(s) to permit the construction of a small database to cross reference the maps or studies by disc, state, county, and FEMA community. Each disc also contains a listing of the files that appear on that disc as well as a reference listing of all of the files in on all of the discs in the event that there are multiple discs.

Following is a description of the supplemental files included on the discs in addition to the FIRM images, FIS Reports, and FIRM Databases.

NOTE: Your disc(s) have an "Order #" assigned for the purposes of FEMA tracking of your shipment of products. This Order # is included as part of the name of each of the files described below. For example, the primary cross reference listing for order number 87654 would be "87654_DEL.txt" and the complete file listing that appears on each disc would be "87654_ALL.txt".

ORDER#_DEL.txt
This file contains a detailed listing of all of the files in an order, cross referenced by state and county Federal Information Processing Standards (FIPS) code and FEMA Community Name. The fields are separated by five spaces.
- Field 1 is the disc number on which the image can be found (i.e. "disc_2" for disc 2 in an order)
- Field 2 is the panel/study number of the image
- Field 3 is the Community Name
- Field 4 is the state FIPS code
- Field 5 is the county FIPS code

COCODE.txt

This file contains the county name and FIPS code for every county in the United States. The fields are separated by five spaces.

- Field 1 is the county FIPS code
- Field 2 is the county name

STATECODE.txt

This file contains the state FIPS code, state name, and state postal abbreviation for every state and territory in the United States. The fields are separated by five spaces.

- Field 1 is the state FIPS code
- Field 2 is the two letter state postal code (e.g. "MD" for Maryland)
- Field 3 is the state or territory name

ORDER#_ALL.txt

This file is a listing of all images and studies included in the entire order. The fields are separated by five spaces. This file is the same on each disc.

- Field 1 is the panel or study number of the image
- Field 2 is the community name

listing.txt

This file is identical to the format found in ORDER#_ALL.txt (above) except that this file contains only the files for the specific disc on which it appears.