Map Production Pro
User Guide

FEMA DFIRM Production Tools
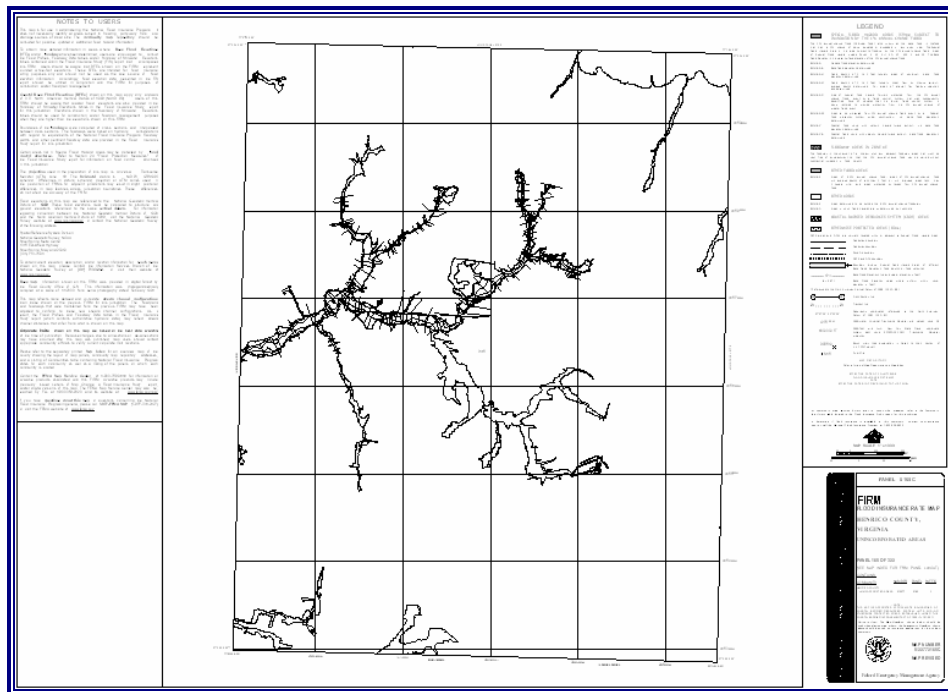
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What is Map Production Pro?

Map Production Pro is a tool that automates production of DFIRM and LOMR panels once a DFIRM database has been completed. This tool will render all features on the selected panel, load the appropriate annotation layers, and automatically generate tables needed for the DFIRM index. There are several options that are available to users, allowing for the customization of the layout according to the characteristics of the panel. These panel elements meet FEMA's FIRM layout standards, which are described in FEMA's April 2003 *Guidelines and Specifications for Flood Hazard Mapping Partners Appendix K: Format and Specifications for Flood Insurance Rate Maps.*
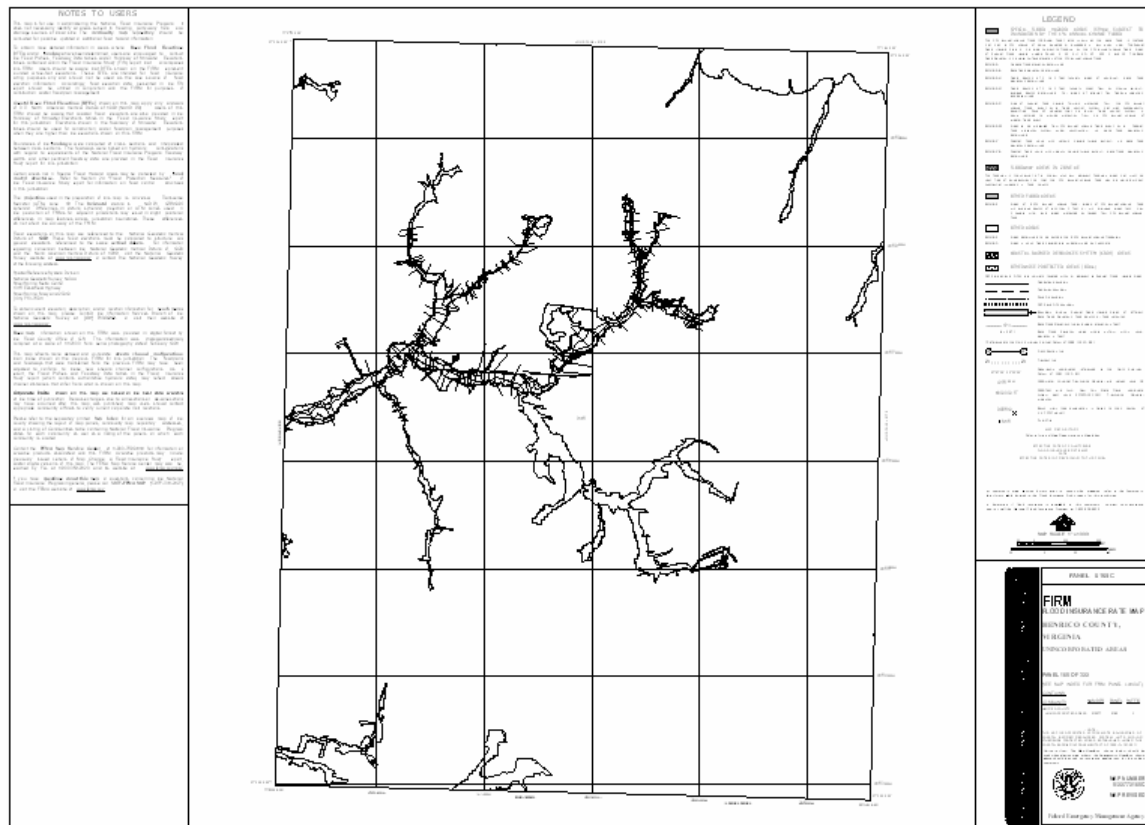
Map Production Pro Overview

The Map Production Pro user guide contains useful information that will help guide you through using the tool. The key sections of this guide are:

- Quick user reference guide (p. 4)

- Descriptions of tools and how to use them (p. 5)

- Support/contact information (p. 15)

Quick Reference Guide

The following is a quick reference guide to all of the components of **Map Production Pro**. You can prepare DFIRM or LOMR panels for printing, export layouts to image format, and create PGW World files.

Create a **DFIRM** panel

Select panel for printing

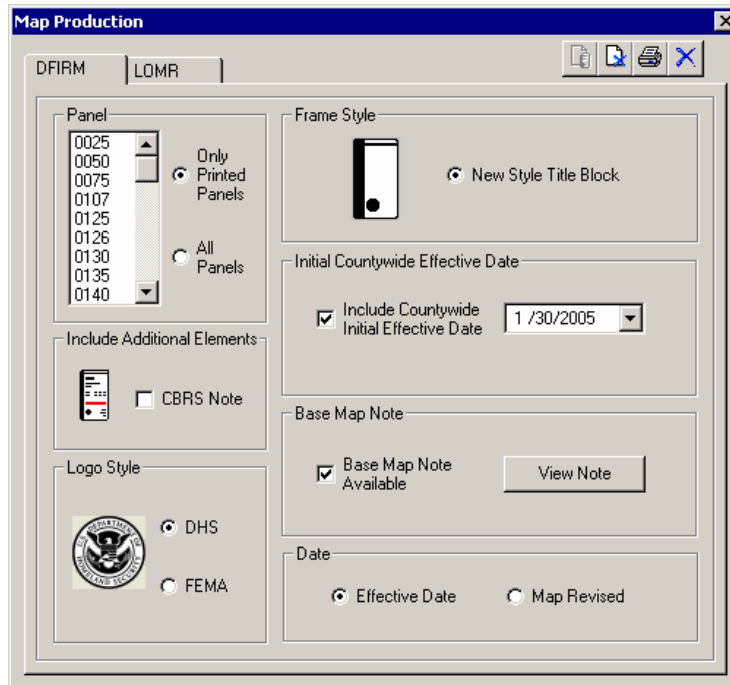If applicable, add a CBRS note to the DFIRM Layout ----------

Choose the logo style

Map Production — DFIRM tab

- Panel: 0025, 0050, 0075, 0107, 0125, 0126, 0130, 0135, 0140
  - Only Printed Panels
  - All Panels
- Frame Style: New Style Title Block
- Include Additional Elements: CBRS Note
- Initial Countywide Effective Date: Include Countywide Initial Effective Date 1/30/2005
- Base Map Note: Base Map Note Available View Note
- Logo Style: DHS, FEMA
- Date: Effective Date, Map Revised

Map Production Pro tools

The Frame Style and Frame Size are set for the DFIRM panel and cannot be modified.

If applicable, you can add the initial countywide date to the legend.

View, add, or edit the base map note for the DFIRM panels.

Choose the date description that should appear on the DFIRM.

Create a **LOMR** panel

Select panel(s) for printing --------------------

If applicable, add a CBRS note to the LOMR Layout --------------------

If the panel will be full-sized, you can add a Legend note -----------

Choose the logo style

Map Production — LOMR tab

- Panel: 0025, 0050, 0075, 0107, 0125, 0126, 0130, 0135, 0140
  - Only Printed Panels
  - All Panels
- Frame Style: New Style Title Block, Old Style Title Block
  - With Community Listing
  - No Community Listing
- Include Additional Elements: CBRS Note, Legend Note
- Frame Size: Standard Frame (8.5" x 11"), Tabloid Frame (11" x 17"), Full Panel Frame Properties
- Logo Style: DHS, FEMA
- Page Orientation: Portrait, Landscape
- Date: Effective Date, Map Revised

Map Production Pro tools

Choose the title block style

Choose the frame size.

Set the page orientation and choose the date description that should appear on the LOMR.

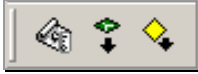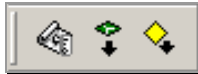|		
Map Production	Create DFIRM and LOMR panels
Export to Image	Export DFIRM layouts to image formats
Create PGW World File	Create PGW World file for exported .pngs

Tool Controls

Now that you are ready to print DFIRM panels, you will need to know how to create them using Map Production Pro and export your layouts to image files.

Map Production Pro Toolbar

Map Production Pro Toolbar

Map Production

Displays the tools and options available for printing DFIRM and LOMR FIRM panels.

Export to Images

Exports DFIRM layouts to 400 dpi images. Vector-based layouts are exported to .eps and .tiff format, and raster-based layouts are exported to .eps, .tiff, and .png formats.

Create PGW World File

Creates PGW World file for the exported .png.

Map Production Pro Tools
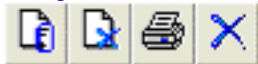
Map Production Pro Tools

Create Layout

View the FIRM panel layout. The layout will be generated for the selected panel and the view will be switched to "Layout."

Clear Graphics

After previewing a panel remove all graphics from the layout page before previewing another panel.

Print to PDF

Print the selected panel to PDF. The panel will be printed with the following naming conventions

> For LOMRs: L(CID)_(Panel#).pdf = **L06063C_0225.pdf**

> For DFIRMs: D(CID)_(Panel#).pdf = **D06063C_0225.pdf**

Use the **PDF Export** tool to download the PDF to your local drive for printing or archiving. Refer to page 12 of this user guide for more information on this tool.

Cancel

Cancel out of Map Production Pro.

Map Production Pro Interface Sections

A brief description of each of the sections contained in the Map Production interface is provided below. The options, in each section, may vary between the DFIRM and LOMR tab.

Tip: Before previewing a panel, run the **Render Using VVT Symbology** tool on the PLTS Symbology and QA toolbar.

Panel

Select a panel number from the list. You can choose to view the Printed Panels only or All Panels in the FIRM Panel Index.
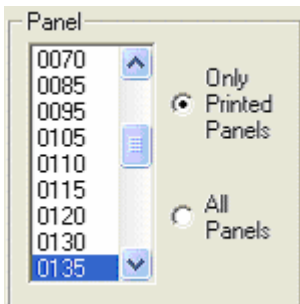
Include Additional Elements

DFIRM panel   LOMR panel

CBRS Note
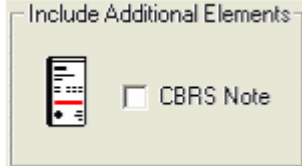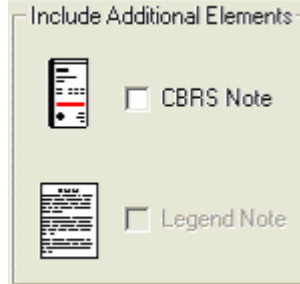If the map panel is in a location for which a Coastal Barriers Resource (CBRS) note would be appropriate, check the box. The note will be added to the Title Block, in the location indicated by the red horizontal line shown in the icon next to the CBRS Note checkbox.

Legend Note
This option is available only when you are creating a full size LOMR panel with the Old Style frame.

Logo Style

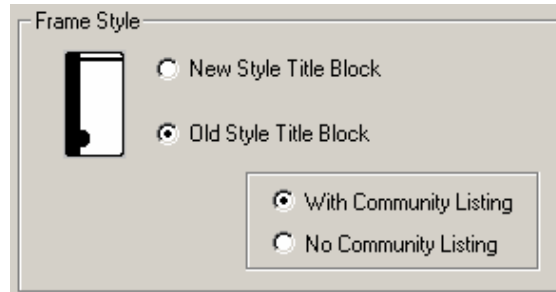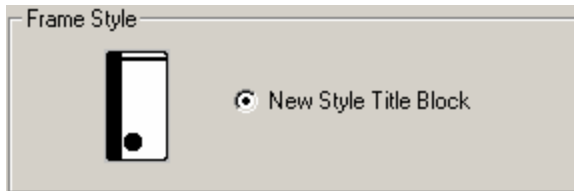Choose to display the DHS or FEMA logo in the Title Block.

Guidelines:

a. For a LOMR, use the same logo on the new map that appears on the old.

b. If only part of the DFIRM is being republished, use the same logo on the new map that appears on the old.

c. If this is a new DFIRM, use the DHS logo.

Frame Style

DFIRM panel   LOMR panel

The frame style for DFIRM panels is set and cannot be modified. For LOMR panels, you can use the New Style Title Block or the Old Style. The New Style will always include a community listing. If you are printing the LOMR at full size and use an Old Style title block, you should show the community listing for a countywide and omit it for a single jurisdiction.

Frame Size

LOMR panel
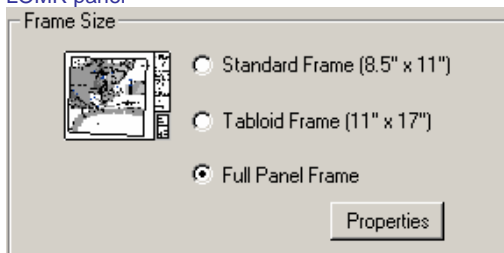
The frame size for DFIRM panels is set and cannot be modified. There are several options for printing LOMR panels. If you choose to print a Full Panel Frame, you will have additional options for page dimensions. Click on the **Properties** button to select the dimensions.
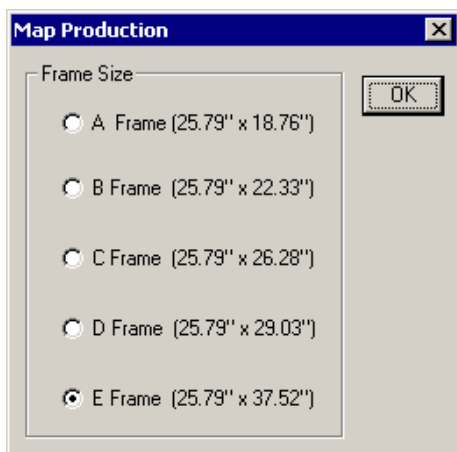
LOMR panel frame size options available

Date
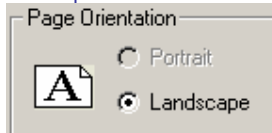
Select to show the Effective Date or the Map Revised date.

Page Orientation
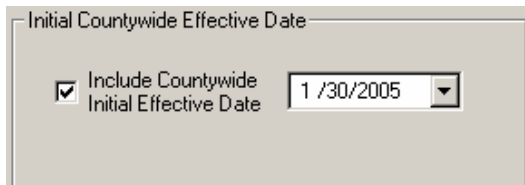
LOMR panel

Select a Portrait or Landscape orientation for a LOMR panel. DFIRMs are printed in landscape orientation only.
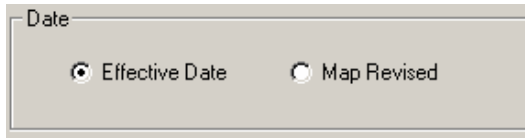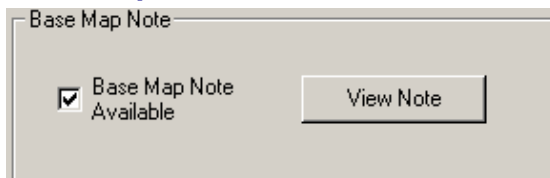
Initial Countywide Date

Select to show the initial countywide date on the DFIRM panel. This option will only be available for countywide studies. Upon checking this box, if there is a date in the corresponding table, it will be displayed for the user, who can then edit it if necessary. Once the user previews a panel, any changes made in the date window will be committed to the appropriate table in the geodatabase.

Base Map Note

This will allow the user to view, add, or update the base map note for the panel. This option only appears on the DFIRM tab. When the user clicks on the "View Note" button, the following dialog appears:
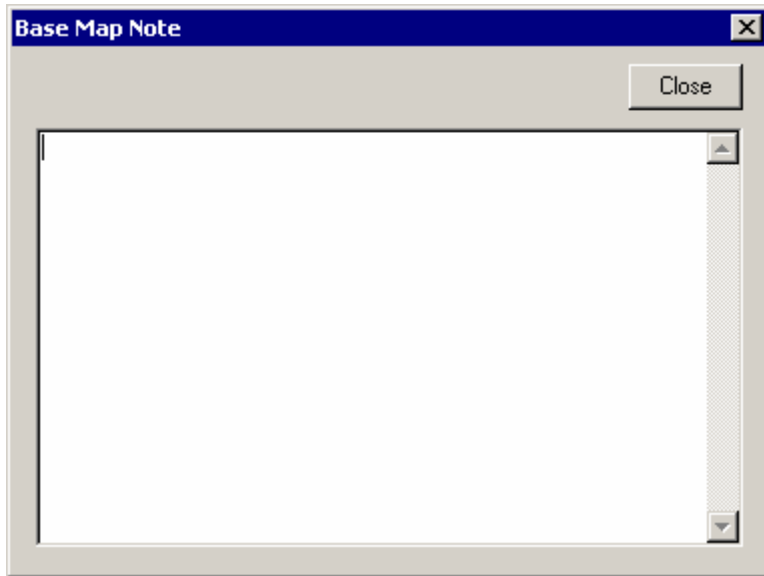
Upon selecting **View Note**, if there is a base map note in the corresponding table, it will be displayed for the user, who can then edit it if necessary. Once the user previews a panel, any changes made in the base map note window will be committed to the appropriate table in the geodatabase.

If working on a LOMR, the user will have to switch to the DFIRM tab to enter/edit base map note information.

Export to Image

Note: This tool can only export ANSI E size layouts to image files.

1. Clicking the **Export to Image** button will open the **Map Production Pro** project selection dialog.

2. Select the project name.

Project Selection dialog

3. If the field DOQ_BASED in the Study_Info table in "F", then a dialog will asks the user to confirm exporting the layout to a .tiff image.

Confirm exporting vector -based layout to .tif
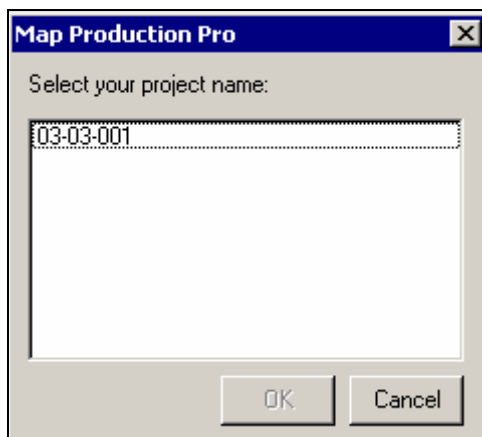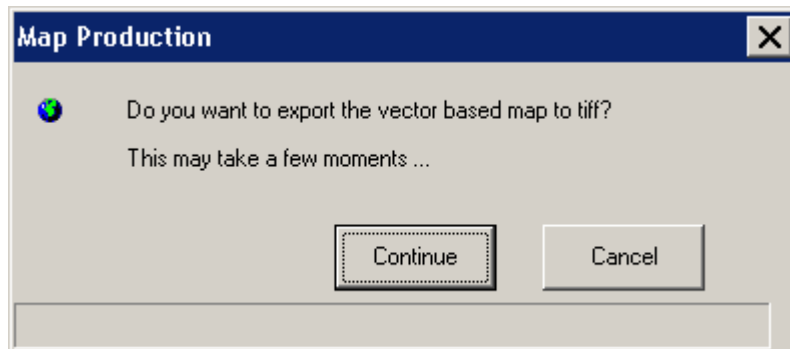
Note: Clicking **Continue** will export the vector-based layout to both .eps and .tiff image formats. The layout will be exported to 400 dpi resolution for both image files.

4. If the field DOQ_BASED in the Study_Info table in "T", then a dialog will asks the user to confirm exporting the layout to a .png image.
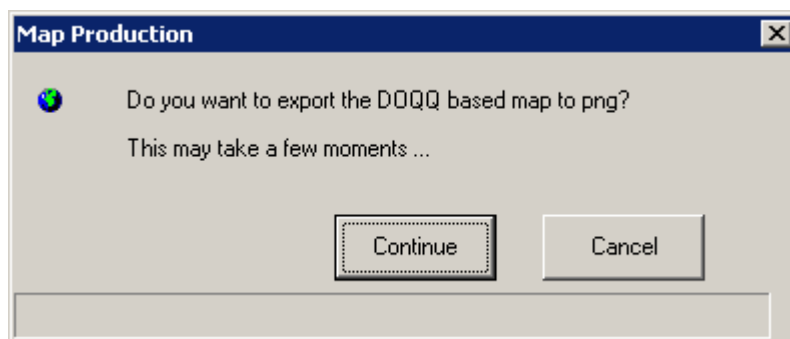
Confirm exporting raster-based layout to .png

Note: Clicking **Continue** will export the raster-based layout to .eps, .tiff, and .png image formats. The layout will be exported to 400 dpi resolution for all image files.

5. The dialog will disappear when the exporting process is complete. The image files have been saved on the K: drive within the RFIRM folder, located in Submissions folder for the project.

Create PGW World File

Note: There are two requirements of this tool. First, a .tif and .trw file must exist for the same layout which you are creating the .pgw for. Second, you must have previously created a .PNG file with the **Export to Image** button.

1. Clicking the **Create PGW World File** button will open the **Map Production Pro** dialog.

2. Select the project name.

Project Selection dialog

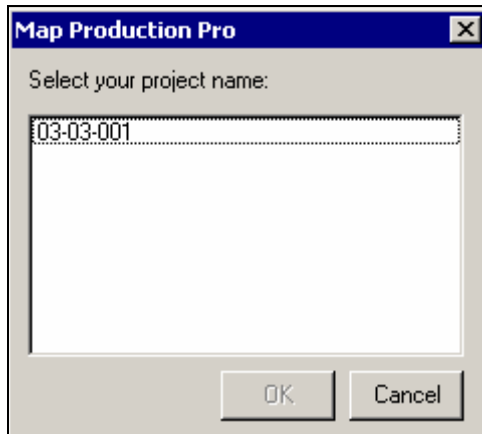3. Once the user clicks **OK**, the file creation process will run. (A progress dialog will not appear.) The .pgw file has been saved on the K: drive within the RFIRM folder, located in Submissions folder for the project.

PDF Export Toolbar

Once you have printed your selected panels to PDF, you can retrieve and save them to a local drive or server using the PDF Export Tool. You can print the PDF work maps to your local plotter, share them electronically, or store them in an archive.

 PDF Export

Allows users to download single or multiple PDF files. Use this tool after printing panels to PDF using Map Production Pro's **Print** feature.

Trouble – Shooting

Problem: Features appear outside of the map frame in Layout view.

Solution: Make sure that the FIRM PANEL feature class is turned on in the table of contents – these features act as a mask, covering all features outside of the panel that you have selected.

Problem: Message appeared when I tried to export a layout to image files.
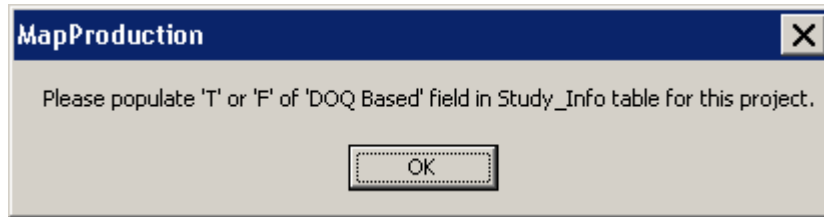
Populate DOQ_BASED field in Study_Info table with 'T' or 'F'.

Solution: The value in the field DOQ_BASED in the Study_Info table determines to which image formats the layout will be exported. Only 'T' and 'F' are appropriate values, in order to export the layout(s) to image format. To edit the DOQ_BASED value in the Study_Info table, use the **DFIRM Layer Data Loader** tool to add the Study_Info table to your project. Enter an editing session, select the record in the Study_Info table, and use the **Attribute Selected Features** tool on the **GeoPop** toolbar to edit the DOQ_BASED value in the Study_Info table. Once you have saved the edits to the table, stop editing, and start exporting your layout again.
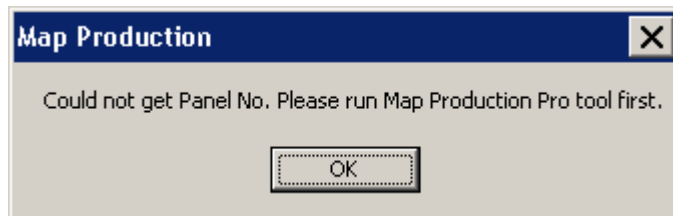
Problem: Message appeared when I opened an ArcMap session and tried to export a layout to image files.

Could not retrieve panel number.

Solution: The steps are being conducted out of order. Click on "Map Production" to prep a DFIRM layout for printing first, and then, click "Export to Image".

Problem: Message appeared when I tried to create a PGW World file.
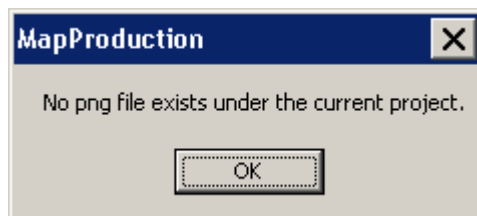
PNG file does not exist.

Solution: A .png file must exist for the layout in order for a .pgw file to be created. To create a .png file, make sure that the field DOQ_BASED in the Study_Info table in "T", then click the **Export to Image** button.

Problem: Message appeared when I tried to create a PGW World file.

MapProduction ✕

No tfw file exists under the current project. Please do georeference for the tif files first.

OK
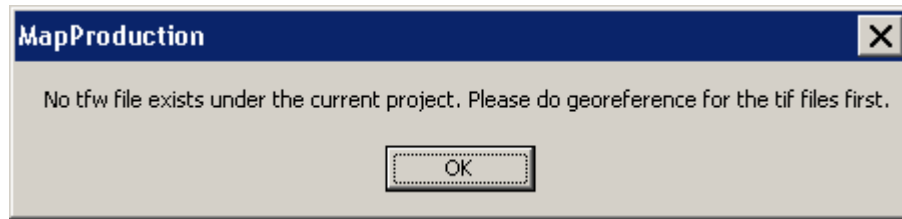
TFW file does not exist.

Solution: The .tiff file must be geo-referenced in order for a .pgw file to be created for the .png image. Geo-reference the .tiff, and then create the PGW World file. This tool requires a geo-referenced .tiff image and .trw file that is of the same layout for which you are creating a .pgw file.

Contacts

If you need assistance with this tool, please contact the representative at your local RMC.

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