

FEMA DFIRM Status Digital Flood Insurance Rate Maps MAFSM Conference

October 21,2010
Dave Guignet, P.E., C.F.M.
State NFIP Coordinator
Maryland Department of the Environment



Outreach Web Site

http://mdfloodmaps.com

http://mdfloodmaps.org

http://mdfloodmaps.net



Outreach Table / Web

Mike Herzberger, MES - Site Dev. / Outreach Assistance
Ed Copeland – Community Ordinance Assist./ Support
Kevin Wagner, MDE – NFIP Technical Assist./ Ordin. Adoption
Dave Guignet, MDE – Mapping / Outreach / Contracting

Demo: Flood Risk Application (Maps) Existing FIRM Maps/ FIRMette Preliminary DFIRM's Effective FIRM's GIS Maps with Flood Overlays



Outreach Table / Web

General Handouts and Information

FEMA Terms and Definitions Links to FEMA (i.e. FloodSmart) Map Adoption Process Grandfathering, etc.

Floodplain Factsheet

County Schedule
Project Enhancements
Overview



Outreach Table / Web

DEMO: Flood Risk Application (16 Different Scenarios) **Out on FIRM with Insurance** Going In On DFIRM with Insurance

- 16 Different Handouts

or Take Aways

FEMA MDE

National Flood Insurance Program nfip.gov

FEMA Insurance Information Site floodsmart.gov









View Maryland Flood Maps Here

DFIRM Outreach

The State of Maryland in conjunction with the Federal Emergency Management Agency (FEMA) has been systematically updating Flood Insurance Rate Maps (FIRMs) for communities over the past several years. This site is designed to guide homeowners/renters as well as communities through the process of determining their current flood risk as well as future flood risk based on the preliminary Digital Flood Insurance Rate Maps (DFIRMs).

The DFIRMs are digitally converted flood insurance rates maps that will be compatible with GIS (Geographic Information Systems). The improvements in spatial accuracy provided by the new base map, and the availability of electronic floodplain information should greatly enhance the ability to use the maps for planning, permitting, and insurance applications.

Researching Your Future Flood Risk

The DFIRMs are being released on a community by community basis. It is important to investigate your flood risk status and contact your insurance agent to make necessay modifications to your coverage while the maps are still preliminary. The digital files will be available when these maps become effective.

Using This Website

To use this website we recommend starting with your area of interest. If you are a homeowner, please visit the HomeOwners/Tenants section. If you are interested in an entire community, please visit the Communities section.

Technical Requirements

To use this website we recommend using a high-speed internet connection using Internet Explorer 7.0 or 8.0. Additionally, Adobe PDF Reader 9.0 and Adobe Flash Player 10.0 are required. The resolution of your monitor is also important; make sure your resolution is 1024 x 768 or above.







nreliminary Schedule

Washington - September 2010

Allegany - February 2011

Talbot - February 2011

Charles - July 2011

Garrett - January 2012

Queen Anne's - March 2012

Kent - May 2012



Effective Schedule

Baltimore City - January 2011

Sommerset - March 2011

Calvert - July 2011

Cecil - July 2011

Anne Arundel - August 2011

Howard - August 2011

Carroll - August 2011

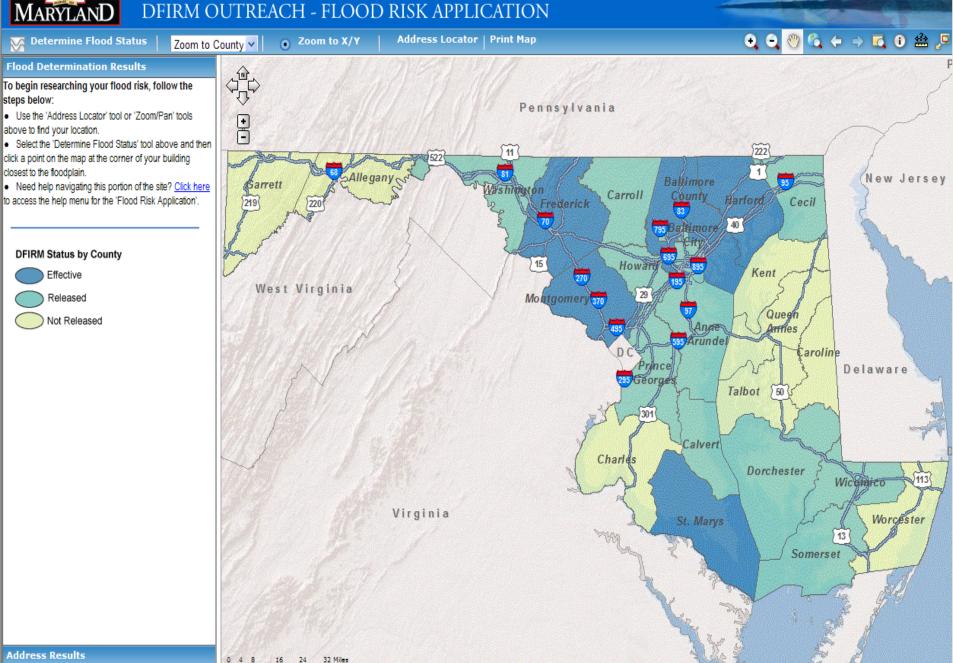


Floodplain Fact Sheet

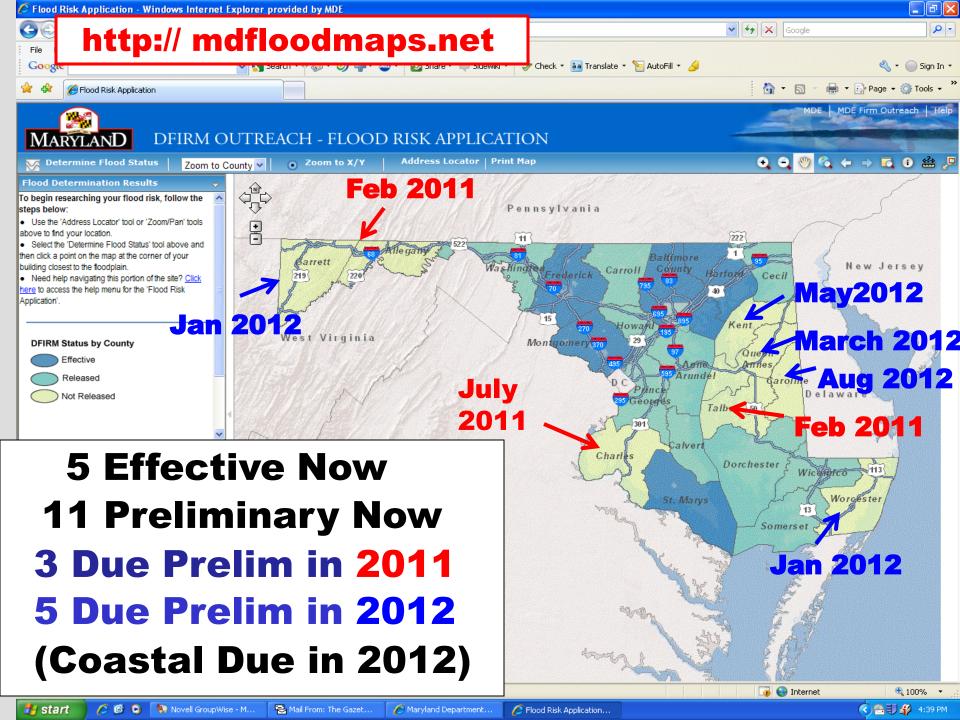




Map Contents



MDE Firm Outreach | Help





Next: Action Items

Ordinance Adoption

State Model Upgraded

Easily Integrates with Building Codes

Eliminated Outdated / Misleading Info

Integrated with Waterway Permit Process

More Clearly Enforceable

Linked to CFR Requirements

Added CRS Credits

MUST BE ADOPTED By Map Effective Date !!!

State Model Already Reviewed and Approved by FEMA – Older existing ordinances must be reviewed and evaluated individually with MANY others (Many won't Pass)



Before Map MOD

- Where Were We Before Map MOD
 - Average Age of Map + 20 years
 - Average Age of Data on Map ~ 30 years
 - 40 % floodplains were A-Zones w/ No Data
 - 70 % models not available
 - 95 % models difficult to reproduce (work maps)
 - (100 % models not used for anything else(SHA))



What We Have on Completion

- 90 % Studies Current / Reproducible / with the Entire Analysis Defined in GIS
- A-Zones upgraded to limited detail study with model and analysis in 2/3 of state
- Up to data Coastal Analysis and Maps
- Effective Ordinances that match maps
- Unlimited CRS Opportunities



Local Upgrades

- Regulate Ultimate Floodplain
- Considering 3 foot freeboard
- Used flood Protection Height + 1 foot freeboard to end up with a 2 foot freeboard
- Treat coastal A-Zone as V-Zone
- Engineered Openings Not Accepted
- Non-Conversion Agreements / Tied to property deeds
- Restricted Accessory Structures



Time to Act (Now)

- It's Your (Community's) floodplain
 - FEMA Provides MINIMUN Regulations
 - State Provided a Model Ordinance with Suggestions for Higher Standards
 - Opportunity to Fix (Deal with) Issues
 Specific to Local Needs
 - Take Hard Look at Your Ordinance and Consider Steps to Mitigate /Reduce FP Issues

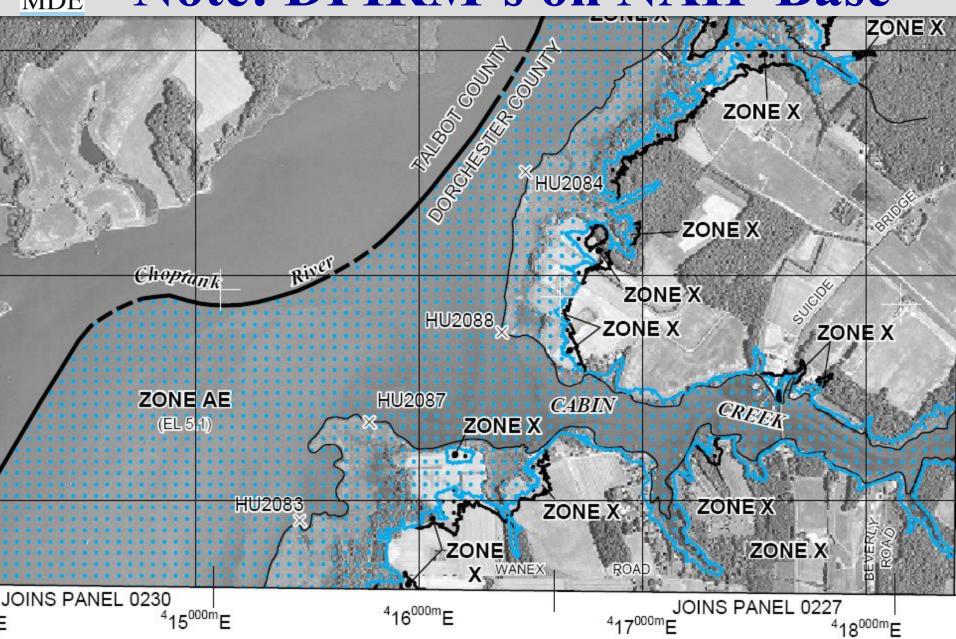


Tidal Updates – Coming Too

- Tidal Analysis Started in 2009
- Tidal Surge Model Runs Recently Completed
- Calibrations with Isabel and Field data Underway
- WAFIS Analysis will Follow Field Calibrations
- Coastal Re-Mapping should be Available in 2011/2012



Note: DFIRM's on NAIP Base





DFIRM Notes

- New Horz & Vert Datums
- NAIP Imagery (free distribution)
- New Paneling Scheme
- Redelineations of Major Rivers and Tidal Limits
- State Permit Process will Adopt and Utilize FEMA Models



Map MOD Next Steps



- > Complete Remaining Counties
- ➤ Integrate Coastal Studies when Completed
- > Build Method to Distribute Models
- > Incorporate into Permit Process
- > Assist Communities with Outreach



MDE Map MOD Progress to Date

- > 200+ Detailed Miles Average per County (AE-zones)
- > 150+ Miles of A-zones Average per Co. (with FP model)
- > 300+ Hydrology Points per County
- > 400 Structures Inventoried per County
- > 600 Models in Production /14 Counties
- > All Models Available are in a GIS Format
- > Floodplain Boundaries Accurate GIS layer

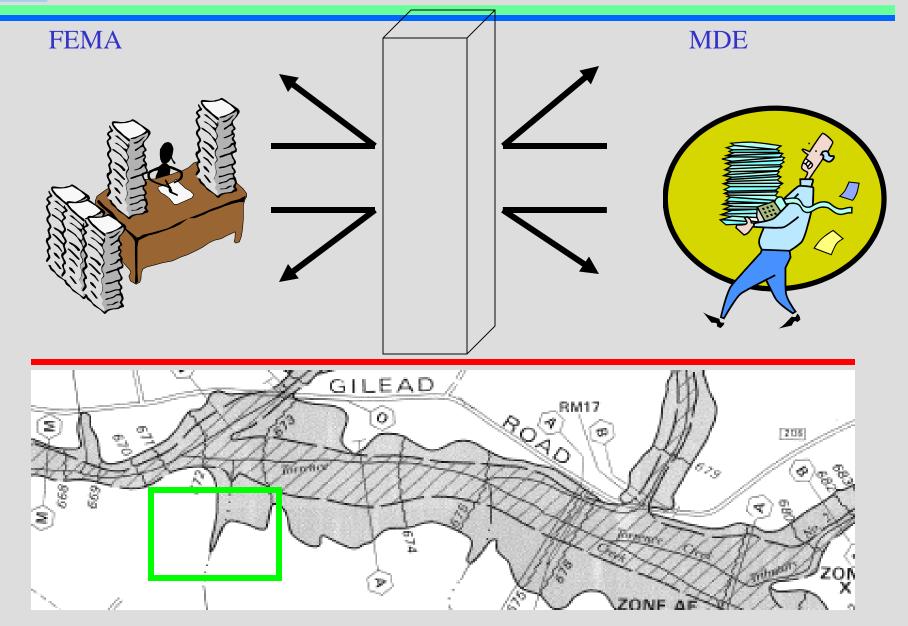


Study Limitations

- 1. No Channel Surveys
- 2. Tidal Areas Are Re-Delineations
- 3. A-Zones Have A Model, But No Profiles, or BFE's
- 4. Hydraulic Structures Not Survey Grade
- 5. Changes Since 2007/2008 Included?
- 6. (LOMAR's Still Necessary!)
- 7. Etc...

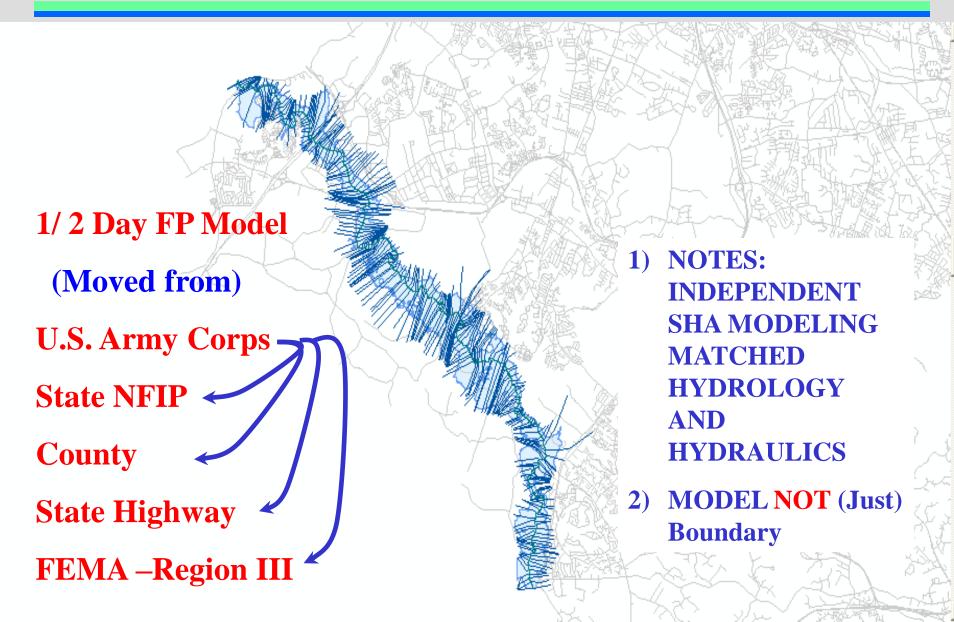


Data Sharing?





Next Steps: Data Sharing





Questions?

Questions Or

Outstanding Issues!



Dave Guignet: 410-537-3775 dguignet@mde.state.md.us

Kevin Wagner: 410-537-3914 kwagner@mde.state.md.us