Working in Floodplains Maps, Requirements, & Resources

Lori Ann Laster, PE, CFM

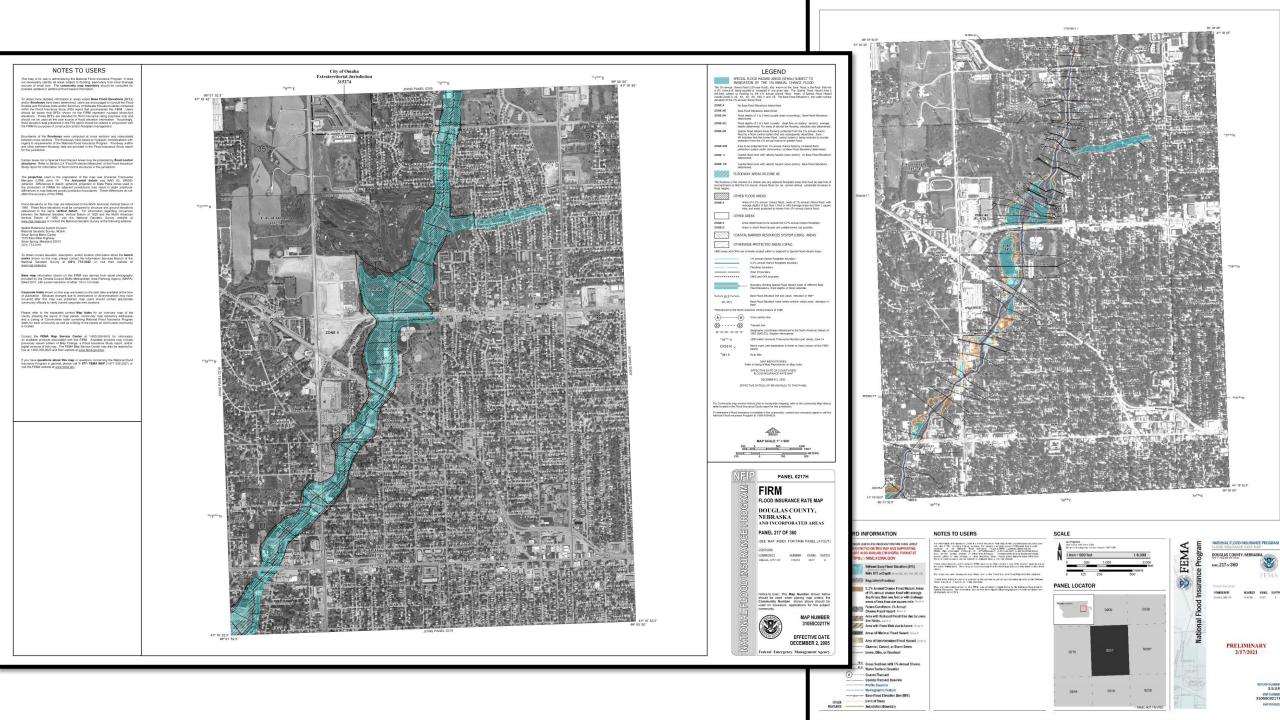


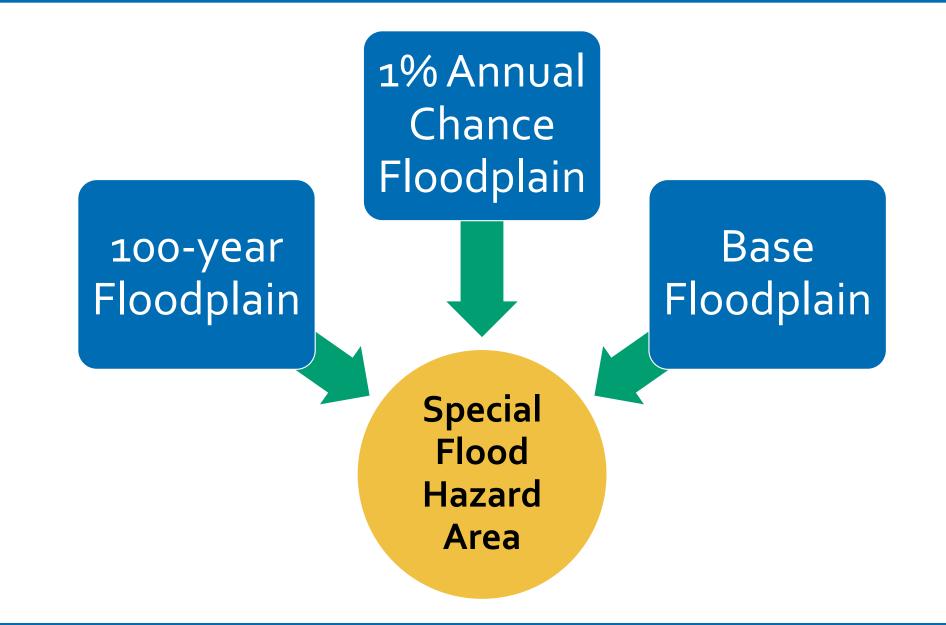


Who really likes listening to someone talk about maps?

- This is Fergus.
- Became housemate #3 in 2020
- Listened to many, many, MANY meetings and webinars for the first year of his life.
- Gratuitous pictures throughout this presentation to add visual interest.





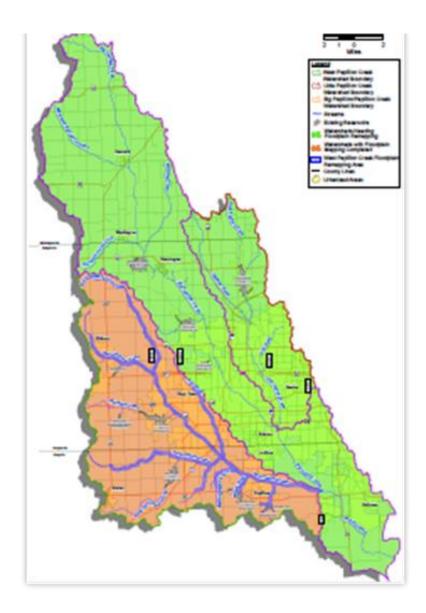


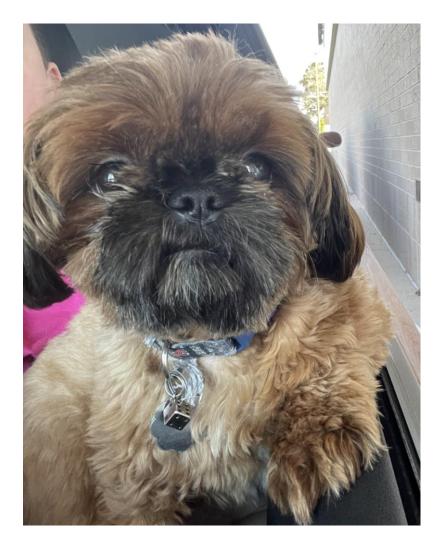
Maps

Flood Insurance Rate Maps	Developed and updated by FEMA in coordination with local entities
	Used to determine flood insurance requirements for federally-backed loans
	Also used to regulate development in high-risk areas

The Beginning

- FEMA priority to update maps
- West Papillion Basin updated in 2010
- Big Papillion/Little Papillion + Missouri River updates
 began 2008





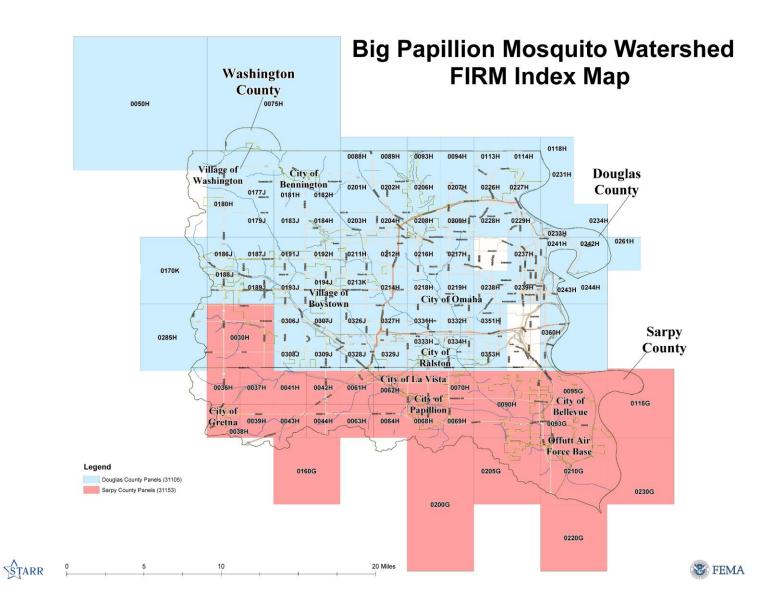
Map Updates

- New Data
 - LiDAR
 - Rainfall Intensity/Distribution
 - Stream Gage Records
- Ongoing Development
- Flood Control Projects

Mapping Updates

Mapping Area

- No panels in Washington County updated
- 3 panels in Cass County along the Platte River included



Mapping Process

Update Maps & Data

Issue Preliminary Study

Community Outreach/Public Review – 90 Day Appeal Period

We Are Here! Letter of Final Determination – 6 month compliance period

New Maps Effective



Timeline

- Preliminary Maps issued February 17, 2022
- Public Open Houses June 2022
- Appeal Period October 5, 2022 January 3, 2023
- FEMA evaluating appeals and comments

Best Available Data

- For purposes of floodplain management regulations, the maps are considered the best available data. Communities will use the new maps to determine compliance with floodplain regulations.
- EXCEPT If the preliminary map shows a reduction in flood risk, the current effective map must be used until preliminary is finalized.

Requirements

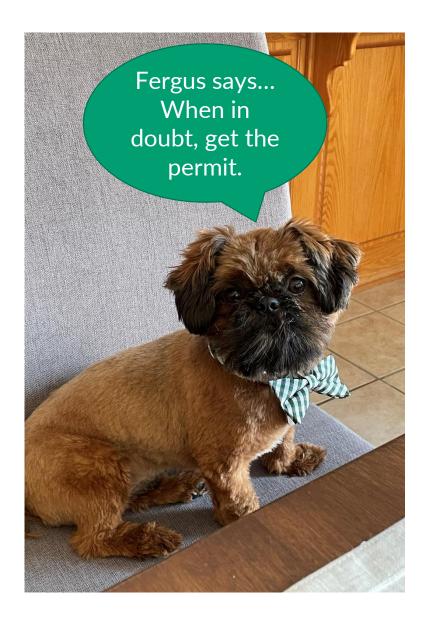
National Flood Insurance Program

- Communities must join the National Flood Insurance Program (NFIP) in order to make federal flood insurance available to their residents
- 44 CFR 60 communities must adopt ordinances to regulate development in the floodplain
- Ordinance must require floodplain development permits for all projects in the floodplain
- Communities are also required to ensure that project are built according to approved plans.

What is Development?

A permit is required for almost any development-related change to the floodplain, *including but not limited to*:

- Construction of new structures
- Modifications or improvements to existing structures
- Excavation
- Filling
- Paving
- Drilling
- Driving of piles
- Mining
- Dredging
- Land clearing
- Grading
- Permanent storage of materials and/or equipment



Floodplain Development Permit Requirements

ALWAYS

$\mathbf{\mathbf{\hat{v}}}$	*	
Location Map	Grading Plans	Building Plans
Elevation and Survey Data	Project Narrative	Agency/ Community Coordination

Floodplain Development Permit Requirements

Sometimes...







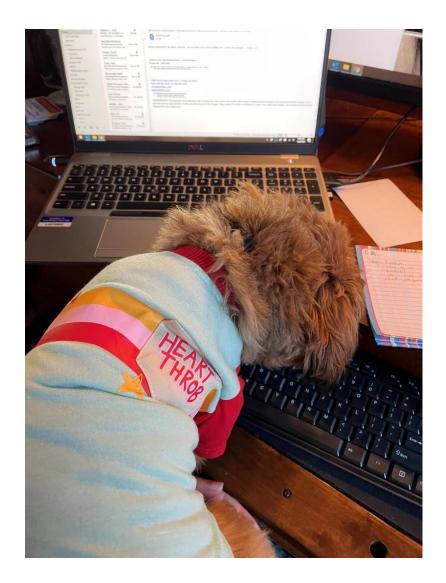
Cost Estimates

No-Rise Certification Hydraulic Models

Development Standards

- Generally found in community zoning ordinances
- Specify building construction requirements
- How permits are to be processed
- Appeal process
- Minimum Standards
 - Federal
 - State
 - Local





The Key to Success... DOCUMENTATION

• Assume you are talking to someone who doesn't know a single thing about your project.

• Provide clear drawings and maps.

How Do I Know I'm in the Floodplain?

Online Resources

- <u>https://msc.fema.gov</u>
- <u>https://dnr.nebraska.gov/floodplain/interactive-maps</u>
- <u>https://papiofloodmaps.org/</u>

FEMA Map Service Center

https://msc.fema.gov

FEMA Flood Map Service Center: Welcome!

Looking for a Flood Map? 🛛

Enter an address, a place, or longitude/latitude coordinates:

Enter an address, a place, or longitude/latitude coordinates



Looking for more than just a current flood map?

Visit **Search All Products** to access the full range of flood risk products for your community.

About Flood Map Service Center

The FEMA Flood Map Service Center (MSC) is the official public source for flood hazard information produced in support of the National Flood Insurance Program (NFIP). Use the MSC to find your official flood map, access a range of other flood hazard products, and take advantage of tools for better understanding flood risk.

FEMA flood maps are continually updated through a variety of processes. Effective information that you download or print from this site may change or become superseded by new maps over time. For additional information, please see the <u>Flood</u> <u>Hazard Mapping Updates Overview Fact Sheet</u>

FEMA Map Service Center

Search Results—Products for **OMAHA**, **CITY OF**

The flood map for the selected area is number 31055C0239H. The flood map for this location has a status of "not printed". This means that the entire area of the panel is in a single flood zone, so FEMA chose to economize and not create a printable image for this location. However, the flood zone data is viewable on the interactive map below and you can print a map for your location using the "FIRMette" button

Show ALL Products »

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette.



Search Results for OMAHA, CITY OF

Click subscribe to receive email notifications when products are updated. If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a <u>map specialist</u>.

Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

- ╞ Effective Products (433) 😯
- 岸 🛛 Preliminary Products (78) 😯
- 闫 🛛 Pending Product (0) 🔞
- 📙 Historic Products (213) 😯
- 📙 Flood Risk Products (5) 😢

FEMA Map Service Center

FEMA Map Service Center

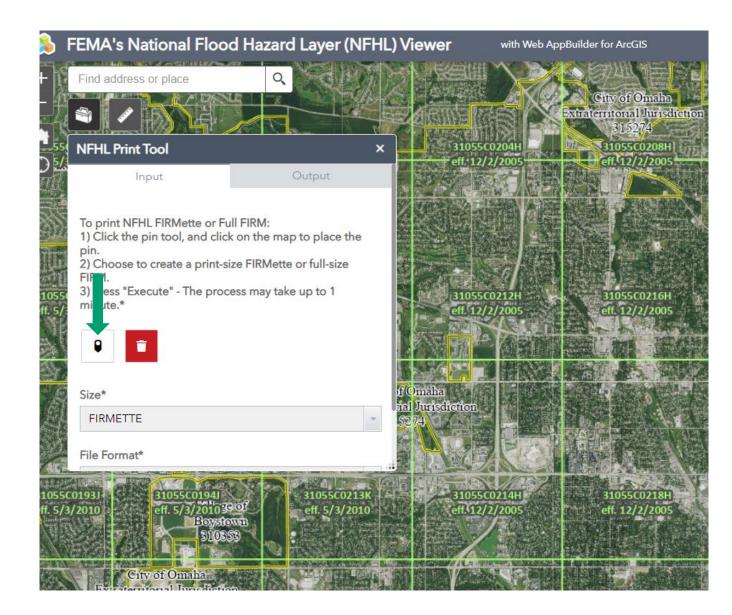
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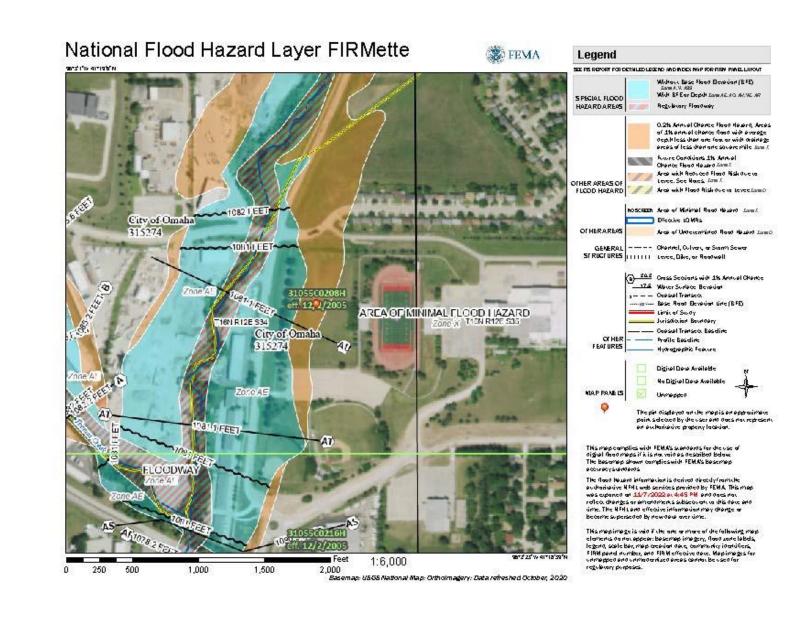


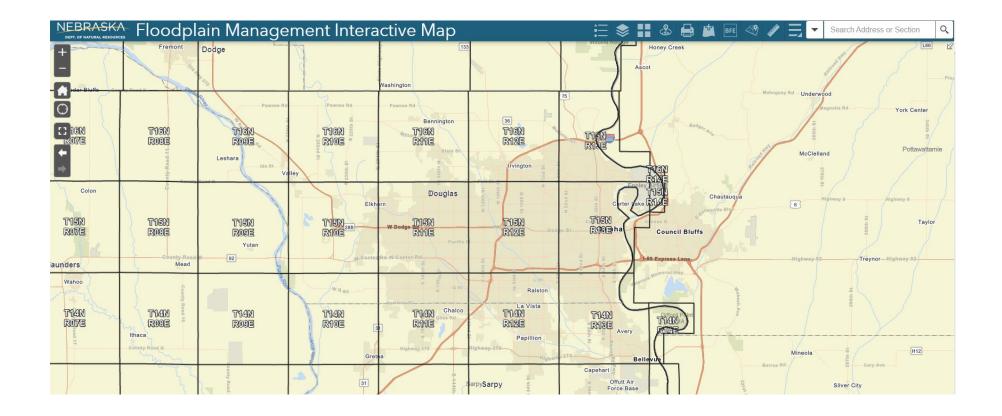
FEMA Map Service Center-National Flood Hazard Layer



FIRMette

Official copy of a portion of a FIRM





NeDNR Interactive Map

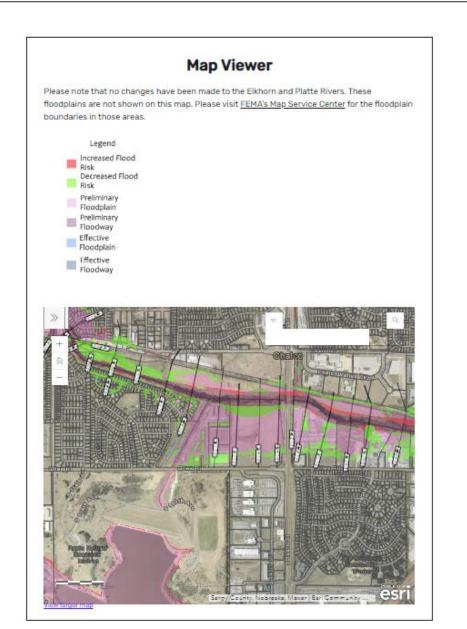
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Papio Flood Map Viewer

LATEST NEWS MAP VIEWER COMMENTS RESOURCES COMMUNITY CONTACTS

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https://papiofloodmaps.org/



Papio Flood Map Viewer

LATEST NEWS MAP VIEWER COMMENTS RESOURCES COMMUNITY CONTACTS

Resources Douglas County Preliminary Flood Insurance Sarpy County Preliminary Flood Insurance Study Study Volume 1 Volume 1 Volume 2 Volume 2 Volume 3 Volume 3 Volume 4 National Flood Insurance Program Be Ready for a Flood Nebraska Department of Natural Resources - Floodplain Management Section

Papio-Missouri River Natural Resources District

Reduce Flood Risk

Papio Flood Map Viewer

https://papiofloodmaps.org/

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Community Contacts Papio-Missouri River NRD Lori Laster, 402.315.1773 Amanda Grint, 402.315.1722 City of Omaha <u>Robert Laroco</u>, 402.444.5150 x 2056 **Douglas County** <u>Stacy Gillman</u>, 402.444.4590 City of Ralston • Dan Freshman, 402.331.6677 x 1310 City of Bennington Mindi Laaker, 402.238.2375 Sarpy County • Kelly Jeck, 402.593.1555 **City of Bellevue** <u>Tammi Palm</u>, 402.293.3038 City of Gretna Dan Giitinger, 402.332.3336 x 202 City of La Vista Jeff Sinnett, 402.593.6400 **City of Papillion** • Travis Gibbons, 402.597.2077 City of Springfield Kathleen Gottsch, 402.253.2204

Questions?

Lori Ann Laster, PE, CFM Papio-Missouri River NRD LLaster@PapioNRD.org 402.315.1773

