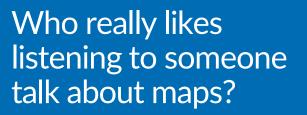
Working in Floodplains Maps, Requirements, & Resources

Lori Ann Laster, PE, CFM

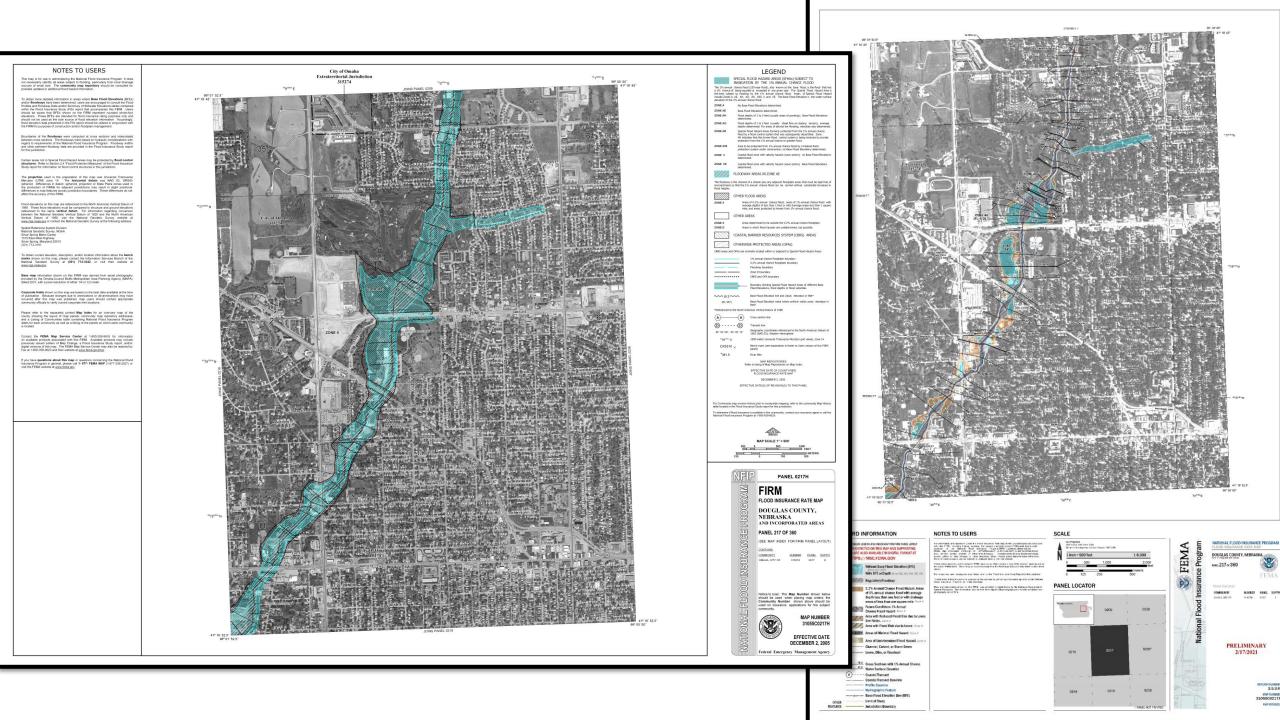






- This is Fergus.
- Became housemate #3 in 2020
- Listened to many, many, MANY meetings and webinars for the first year of his life.
- Gratuitous pictures throughout this presentation to add visual interest.





1% Annual Chance Floodplain Base 100-year Floodplain Floodplain **Special** Flood Hazard Area

Maps

Flood Insurance Rate Maps

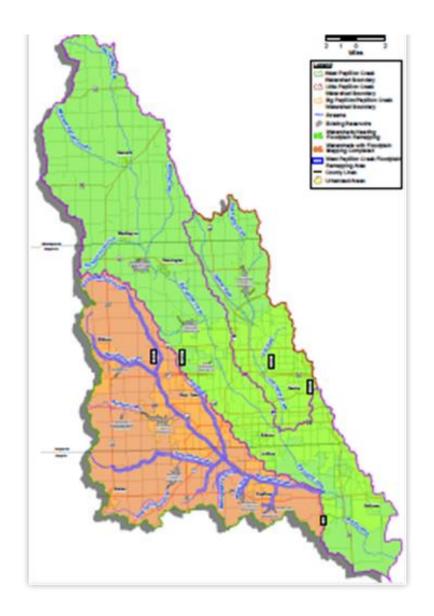
Developed and updated by FEMA in coordination with local entities

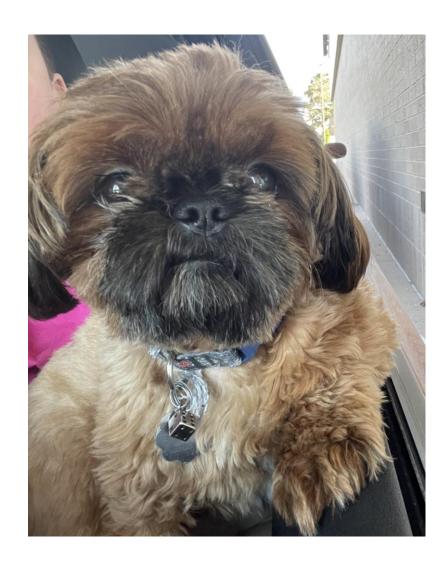
Used to determine flood insurance requirements for federally-backed loans

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





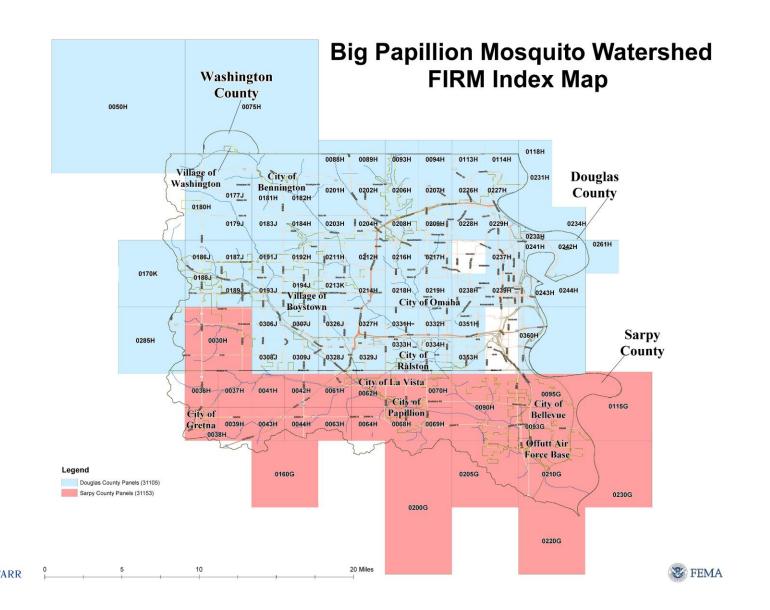
Map Updates

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

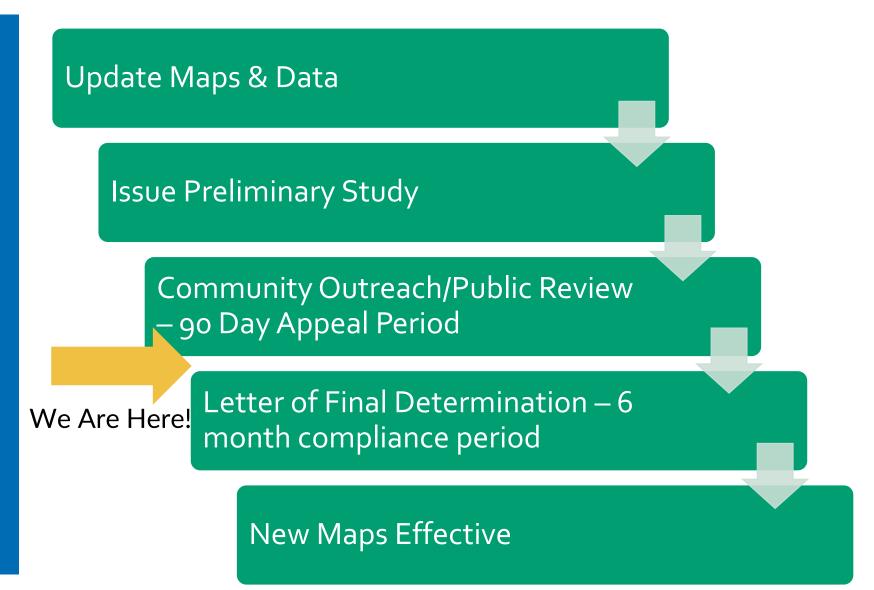
Mapping Updates

Mapping Area

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



Mapping Process





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

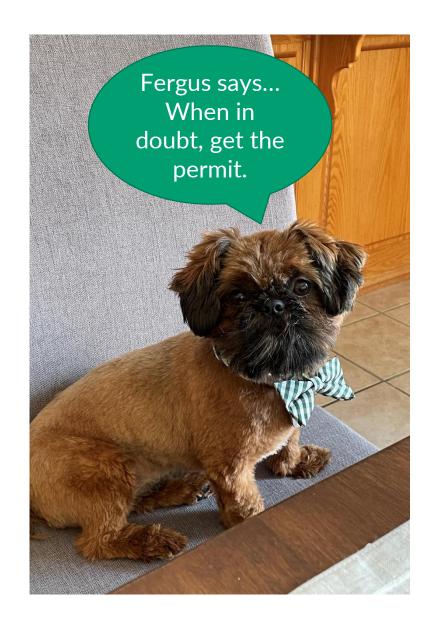
National Flood Insurance Program

- 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







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

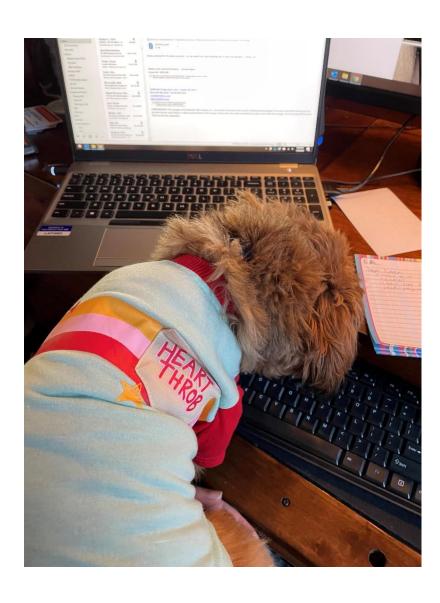


Hydraulic Models

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

https://msc.fema.gov

https://dnr.nebraska.gov/floodplain/interactive-maps

https://papiofloodmaps.org/

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

Search

Looking for more than just a current flood map?

Visit <u>Search All Products</u> 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 Hazard Mapping Updates Overview Fact Sheet</u>

FEMA Map Service Center

Search Results—Products for OMAHA, CITY OF

Show ALL Products »

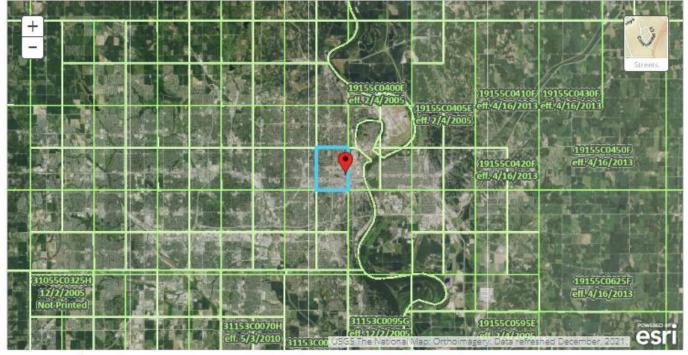
The flood map for the selected area is number 31055C0239H. The flood map for this location has a status of "not printed". This means that the entire area of the panel is in a single flood zone, so FEMA chose to economize and not create a printable image for this location. However, the flood zone data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

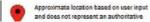
DYNAMIC MAP

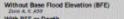


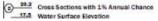
You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette.

Go To NFHL Viewer »









Search Results for OMAHA, CITY OF

Click <u>subscribe</u> 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) 🔞
- Preliminary Products (78)
- 🥅 Pending Product (0) 🔞
- Historic Products (213) 🔞
- 🥅 Flood Risk Products (5) 😯

FEMA Map Service Center

FEMA Map Service Center

Search Results—Products for OMAHA, CITY OF

Show ALL Products »

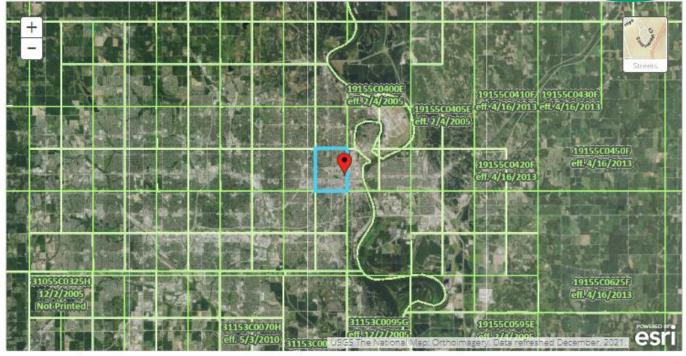
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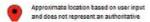
DYNAMIC MAP

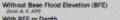


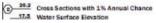
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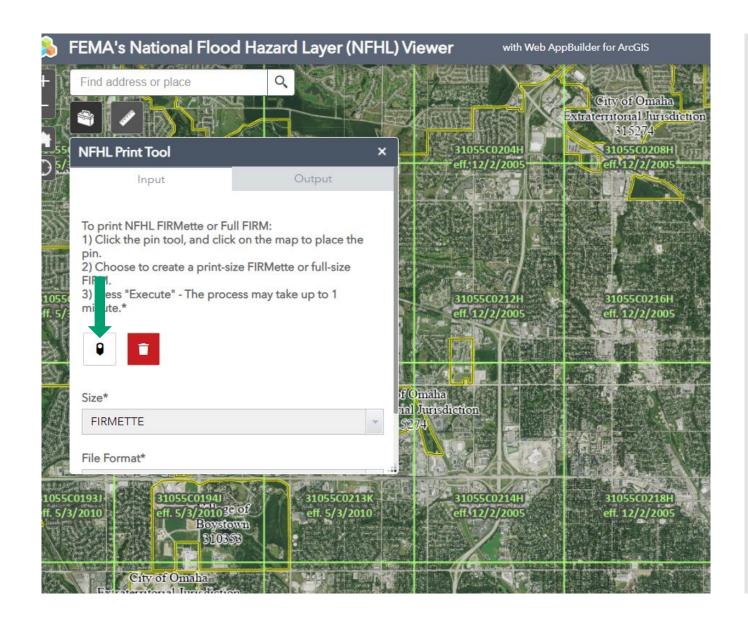






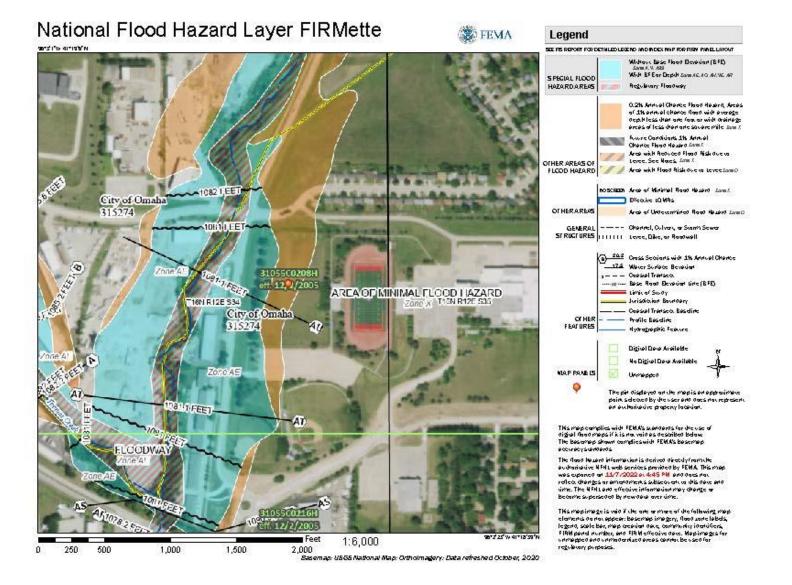


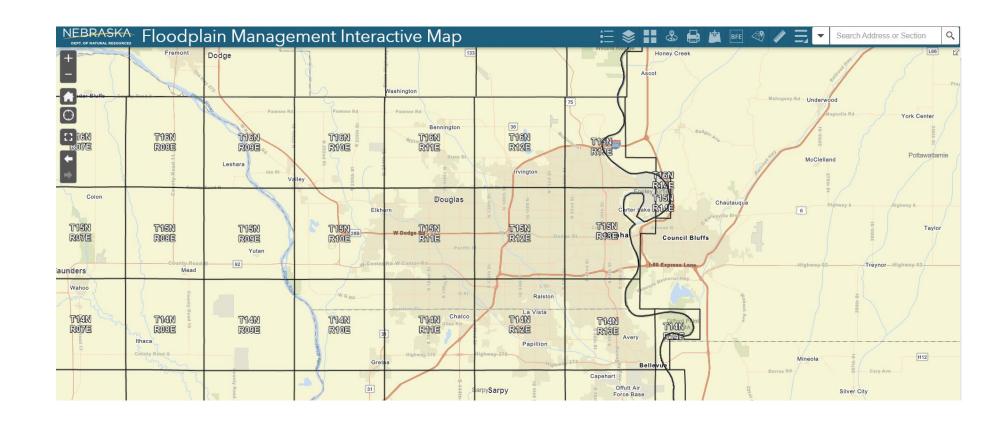
FEMA Map Service Center-National Flood Hazard Layer



FIRMette

Official copy of a portion of a FIRM





NeDNR Interactive Map

https://dnr.nebraska.gov/floodplain/interactive-maps

Papio Flood Map Viewer

https://papiofloodmaps.org/

Papio Flood Map Viewer

RESOURCES

COMMUNITY CONTACTS

MAP VIEWER COMMENTS

LATEST NEWS

Map Viewer Please note that no changes have been made to the Elkhorn and Platte Rivers. These floodplains are not shown on this map. Please visit FEMA's Map Service Center for the floodplain boundaries in those areas. Legend Decreased Flood Preliminary Floodplain Preliminary Effective Floodway Sergy County, Nebreske, Mexer | Earl Community

Papio Flood Map Viewer

https://papiofloodmaps.org/

Papio Flood Map Viewer

LATEST NEWS MA

MAP VIEWER

COMMENTS

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Resources

Douglas County Preliminary Flood Insurance Study

- Volume 1
- Volume 2
- Volume 3
- Volume 4

Sarpy County Preliminary Flood Insurance Study

- Volume 1
- Volume 2
- Volume 3

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/

Papio Flood Map Viewer

LATEST NEWS

MAP VIEWER

COMMENTS

RESOURCES

COMMUNITY CONTACTS

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