DEPARTMENT OF NATURAL RESOURCES

MN Floodplain (and Shoreland) Updates For MACPZA

October 13, 2023

Agenda

- DNR organization & roles related to floodplain management & state permits for work in state public waters
- Ongoing and Newer Outreach efforts
- New/updated resources
- Other efforts of interest
- Mapping updates
- Your priorities for updated or new fact sheets/guidance?
- Any other questions?

MN DNR Organization for Land Use & Public Water Permits Statewide Contacts

- Floodplain Management/Insurance (NFIP coordinator) Ceil Strauss; new assistant Garry Bennett (started Dec 2022)
- Floodplain Mapping/Modeling Jeff Weiss
- State Flood Damage Reduction grant program Pat Lynch
- Shoreland/Rivers Dan Petrik
- Floodplain ordinances (and helping in floodplain/shoreland) Matt Bauman
- Floodplain program: <u>floodplain.dnr@state.mn.us</u>

Shoreland ordinance: ordinance.review.dnr@state.mn.us (see Aug. 2023 Water Talk)

- DNR Public Waters permit program Jen Sorensen
- DNR Appropriation permit program Dan Miller

Changes in the Works

State Flood Hazard Mitigation grant manager

✓ Pat Lynch retiring Jan. 2024

✓ New FHM coordinator to be named soon. Overlapping a couple months

Two new mapping engineers

✓ One to replace staffperson who went to another DNR position, and one new

✓ Posting closed Oct. 9, 2023

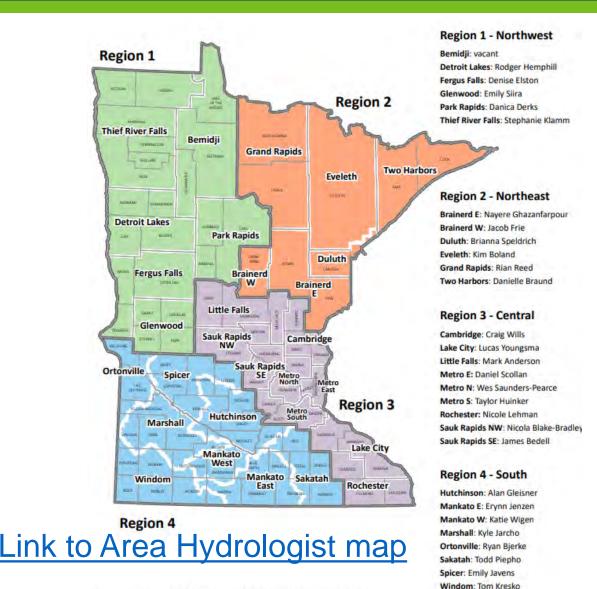
- New Land Use Unit supervisor
 - ✓ Jenny Shillcox took new position within DNR-EWR
 - ✓ Posting closes Oct. 16

MN DNR Organization – Field Staff

Area Hydrologists

- First contact for specific projects
- Issue public water permits & water appropriation permits
- Assist local officials on floodplain and shoreland management ordinance administration

Lots of new Area Hydrologists and regional managers



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Regular Outreach – Water Talk newsletter

- Typically issued end of odd months, plus some bonus issues
- This past year: 8 issues November 2022, December 2022, February 2023, March 2023, May 2023, July 2023, August 2023, September 2023
- See past issues on <u>Water Talk page</u> (can also subscribe at bottom of this page)
- Future addition: index of topics on web site
- Always floodplain topics (since effort is funded by FEMA grant), but also shoreland/river and other water-related or natural beneficial floodplain related
- Open to your ideas for topics of interest!

Water Talk Newsletter - September 2023

- <u>My Safe Yard Coloring Book</u>
- Oct. 23: New FEMA Elevation Certificate One-Hour Virtual Training
- DNR Floodplain Engineer Position Openings
- MnAFPM Registration Open Nov. 1-3, 2023
- New FEMA Flood and Flood Insurance Facts Fliers
- Recordings Available for Winter 2023 Floodplain and Shoreland Trainings
- FEMA Region 5 Virtual Trainings Continue
- MN Floodplain Management Office Hours Continue
- FEMA Map Status Listing

My Safe Yard Coloring Book



Past coloring books have been popular with our Water Talk readers. FEMA staff noted a disaster safety focused issue we haven't previously shared - <u>FEMA's My Safe Yard</u>.

The book includes:

- Basics on preparing for floods and severe
- Coloring and activity pages

Oct. 23: New FEMA Elevation Certificate One-Hour Virtual Training

FEMA New Elevation Certificate virtual training

FEMA issued a new Elevation Certificate in July 2023 and

Regular Outreach – New LGU Page & Virtual Forums

• <u>New "secret" local governmental unit page</u>

- Started monthly virtual LGU forums in Feb. 2023 typically held 9:30-11 am on 3rd Wednesday of month
- Intent is a mix of DNR & local (or other agency) presenters with 10 – 20 minute talks, and time for questions & discussion
- Links to the Teams meeting for the forums on LGU page (and included in monthly LGU emails) or request series appointment
- Agenda's added to page ~1 week before
- Will have polls for future topics a couple times a year, but open to your ideas for topics of interest!

DNR resources specifically for Local Government Units

Note: this page requires a specific link to access. It is intended as a spot for sharing outreach specifically intended for officials of local government units (LGU) working with land use zoning.

Monthly LGU virtual forums

What: A monthly live virtual Teams forum for local officials involved in managing natural resources, especially for those involved in administering floodplain, shoreland or river-related ordinances, to learn and chat about topics of interest to you.

Purpose: Provide a regular opportunity for local officials and Department of Natural Resources to share information and have discussion outside of more formal trainings on topics that help you manage natural resources in your community.

How do I attend?

- Forums will be hosted from 9:30 to 11 a.m. on the third Wednesday of each month, beginning Feb. 15, 2023. Use the links listed under "Upcoming Forums" to join the live virtual meetings using Microsoft Teams software.

2023 forums

- February 15 🗠 | Topic: Retaining walls Agenda (PDF)
- March 15 C | Topic: Sand Blankets and Aquatic Plant Management (APM) <u>Agenda</u> (<u>PDF</u>)
- April 19 🗹 | Topic: Culverts and Crossings Agenda (PDF)
- May 17 2 | Topic: Culverts and Crossings Higher Standards and Approaches -Agenda (PDF)
- June 21 🖄 | Topic: Riprap Agenda (PDF)
- July 19 🗗 | Topic: Beyond Riprap: Bioengineering Agenda (PDF)
- August 16 🛛 | Topic: Water Surface Use Impacts and Regulations Agenda (PDF)
- September 20 🛛 | Topic: Stormwater Basics for Zoning Administrators Agenda

Regular Outreach – New Monthly Emails

- New monthly "LGU Floodplain & Shoreland Reminders" emails to National Flood Insurance Program (NFIP) participating communities – since April 2023
- Usually sent around 2nd Wed of month (last sent 10/11/23)
- Sent to: Zoning/permitting (involved in floodplain or shoreland administration), engineering, EM's, other local staff interested in getting the updates
- Includes:
 - ✓ upcoming virtual monthly LGU agenda
 - ✓ links to any Water Talk issues sent since last monthly update
 - ✓ upcoming trainings
 - ✓ FEMA updates of interest to LGUs



New Bluff Basics Video

- New on-demand video training (about 18 minutes)
- Content:
 - ✓ Why we have bluff regulations
 - ✓What are the bluff regulations
 - ✓ Shows sample elevation data to determine whether a bluff exists using the bluff-related definitions
- Target audience: planning and zoning staff who administer bluff-related regulations for land use applications.
- Presented by Dan Petrik, DNR Lake and River Shoreland Program Manager, and recorded in August 2023.





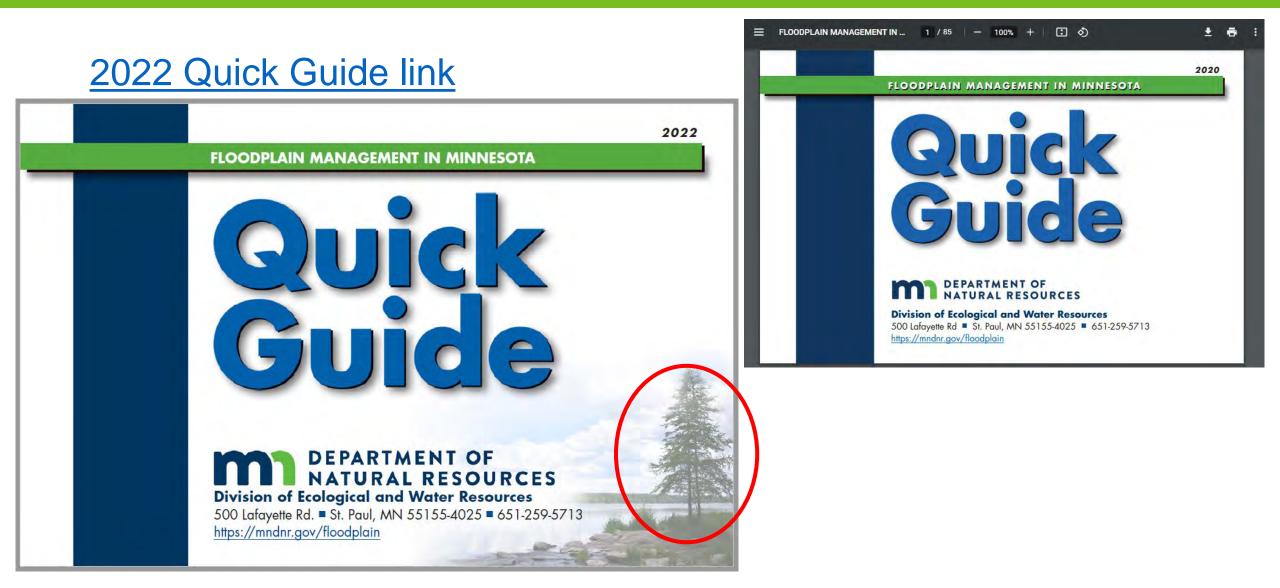
MRCCA Viewshed Analysis with Google Earth Pro

- New on-demand video training (about 7 minutes)
- Within the Mississippi River Corridor Critical Area (MRCCA), community ordinances require evaluations of potential impacts to Public River Corridor Views prior to permitting certain types of development and activities.
- This video details one way in to evaluate how a proposed structure could impact such views using Google Earth Pro.
- Target audience: Planning, zoning & engineering staff in MRCCA communities

Link to MRCCA Viewshed Analysis with Google Earth Pro training



December 2022 Minnesota Floodplain Management Quick Guide



Separator Pages with Upcoming Topics

FLOODPLAINS AND FLOOD MAPS

- 10 Looking for FEMA Flood Map Information?
- 11 FIRMette: FEMA Flood Maps Online
- 12..... Understanding the Riverine Floodplain
- 13 New Format Flood Insurance Rate Maps
- 14..... "Pre-1988" Flood Insurance Rate Maps
- 15 "Pre-1988" Flood Boundary and Floodway Map
- 16 Using the Riverine Flood Profile to Determine Riverine BFEs
- 17 Understanding the Floodway
- 18 Floodway Data Table
- 19..... Regulatory Flood Protection Elevation (RFPE)

Some reorganization

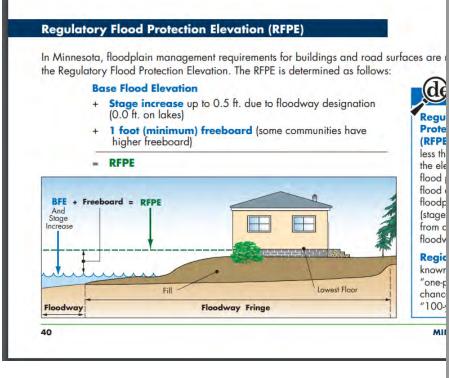
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Regulatory Flood Protection Elevation (RFPE) Page

Moved earlier from page 40 to 19 (right after Floodway determination)

MII

Show natural SIZ area



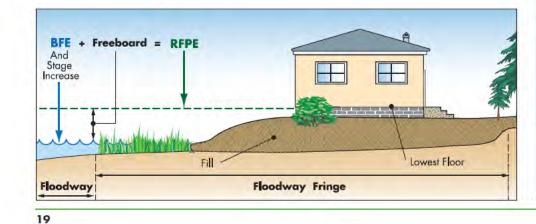
Regulatory Flood Protection Elevation (RFPE)

In Minnesota, floodplain management requirements for buildings and road surfaces are measured relative to the Regulatory Flood Protection Elevation. The RFPE is determined as follows:

Base Flood Elevation

- + Stage increase up to 0.5 ft. due to floodway designation (0.0 ft. on lakes)
- 1 foot (minimum) freeboard (some communities have higher freeboard)

-RFPE



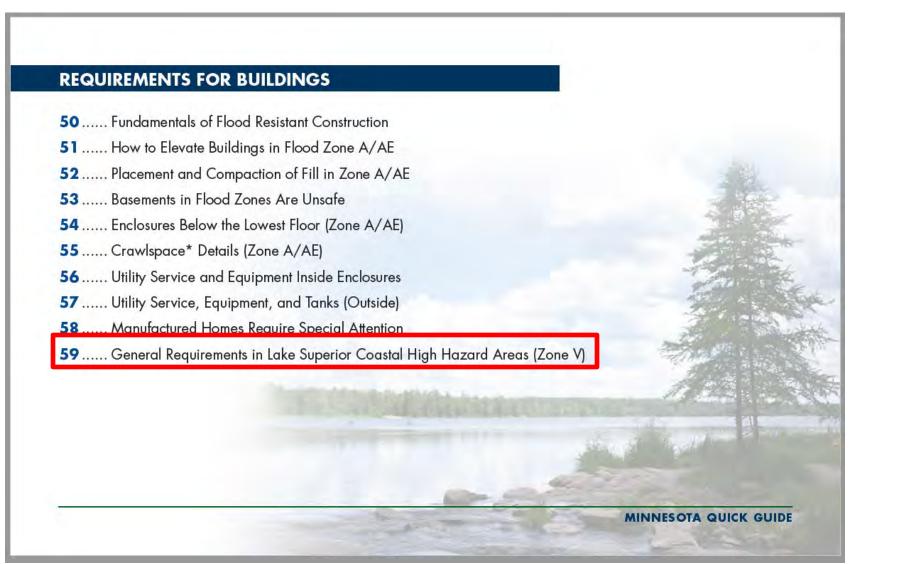


Regulatory Flood Protection Elevation (RFPE) is an elevation not less than one foot above the elevation of the regional flood plus any increases in flood elevation caused by floodplain encroachments (stage increase) that result from designation of a floodway.

Regional Flood is also known as "base flood," "one-percent (1%) annual chance flood," and the "100-year flood."

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Examples of Changes in QG



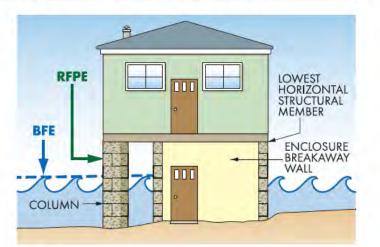
Some reorganization & separator pages with those upcoming topics/pages

New page noting coastal requirements (Zone V)

General Requirements in Lake Superior Coastal High Hazard Areas (Zone V)

FEMA revisions to Flood Insurance Rate Maps for some Lake Superior shorelines may show coastal high hazard areas (Zone V). The fundamental requirements for flood resistant construction (see page 50) apply in Zone V. In addition:

- Buildings must be elevated on "open" foundations (pilings or columns) to allow waves and water to pass under without imposing significant wave forces.
- The lowest horizontal structural member of the lowest floor must be elevated to or above the RFPE.
- Foundation designs must be prepared and certified by registered design professionals.
- Enclosures below elevated buildings must be used only for parking, limited storage, and building access.
- Walls of enclosures must be flood damage-resistant materials and designed to break away under flood loads.





are shown on FIRMS to identify areas subject to high velocity wave action during base flood conditions. In Zone V, waves may be 3 ft. or higher.

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Minnesota's first Zone VE on St. Louis countywide maps (currently preliminary)

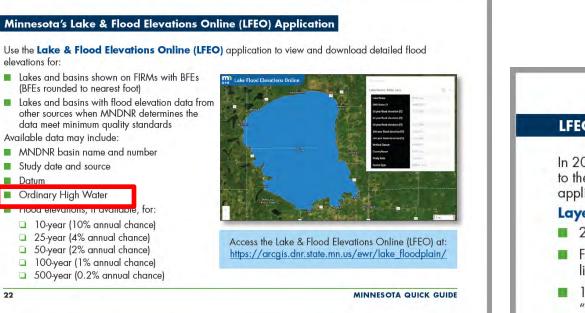
Lake & Flood Elevations Online (LFEO) for 2021 additions

FLOODPLAIN DATA AND RESOURCES

- 20..... Approximate Zone A
- 21 Sources for BFEs in Approximate Zone A Without BFEs
- 22 Minnesota's Lake & Flood Elevations Online (LFEO) Application
- 23 LFEO Application Options
- 24 Minnesota's FEMA Hydraulic Model Download Site

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Lake & Flood Elevations Online (LFEO) Changes



Datum

22

Added page for 2021 upgrade

LFEO Application Options

In 2021, MNDNR added new layers and features to the Minnesota Lake & Flood Elevations Online application (see page 22).

Layers: In addition to lakes and basins

- 2-foot elevation contours (NAVD88 datum)
- FEMA flood hazard areas, cross-section and BFE lines (where digital FIRMs available)
- 1% annual chance water surface elevations (aka "pink lines") for BFE estimates
- MNDNR's Unmodernized floodplain layer (where paper FIRMs available)
- Parcel boundaries
- Public Waters

Tools: Measuring (length and area) and latitude / longitude for spot location **Report options:**

- Map of chosen areas and layers
- Basin report with flood elevations, Ordinary High Water, and highest recorded flood elevations



- User hints for layers legend: Click on "eye" symbol to turn layer off/on
- 2 Click on "pointer" to show expanded layers
- 3 Transparency option: Click on three dots to right of layer name, then increase or decrease opacity

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Separate Letter of Map Changes section

FIRM AMENDMENTS AND REVISIONS

- 25 FIRM Revisions: Letters of Map Revision (LOMA)
- 20 Are Building Sites Higher than the BFE?
- 27 LOMAs: "Out as Shown"
- 28 Options to Document Structures are Not in SFHAs
- 29 More on LOMAs: Using LiDAR Topography
- 30 More on LOMAs: Basements and Decks
- 31 FIRM Revisions: Letters of Map Revision Based on Fill (LOMR-F)
- 32 FIRM Revisions: CLOMRs and LOMRs
- 33 Levee Certification for FIRMs

FIRM Revisions: LOMAs and LOMR-Fs

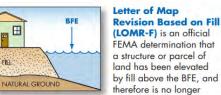
LOMA removes a building site from the SFHA because

natural ground at the site is at or above the BFE.

The most accurate information available is used to make flood maps, including topographic base maps and detailed engineering methods or methods of approximation. FEMA issues map revisions if technical data are submitted to support the changes.



Letter of Map Amendment (LOMA) is an official amendment to an effective FIRM that may be issued when a property owner provides additional technical information from a professional land surveyor, such as ground elevation relative to the BFE. Lenders may waive the flood insurance requirement if the



(LOMR-F) is an official FEMA determination that a structure or parcel of land has been elevated by fill above the BFE, and therefore is no longer in the SFHA for federal

2020 versio

mandatory flood insurance purposes. Minnesota law requires additional steps to remove a structure or parcel of land from the SFHA for regulatory purposes.

Check www.fema.gov/letter-map-amendment-letter-map-revision-based-fill-process for guidance on map revisions. Access to FEMA's web-based application for professional land surveyors to submit eLOMAs is https://hazards.fema.gov/femaportal/resources/whatiseloma.htm.

Split LOMA & LOMR-F into two pages

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Separate LOMA & LOMR-F

FIRM Revisions: Letters of Map Revision (LOMA)

The most accurate information available is used to make flood maps, including topographic base maps and detailed engineering methods or methods of approximation. FEMA issues map revisions if technical data are submitted to support the changes.

Letter of Map Amendment (LOMA) is an official amendment to an effective FIRM that may be issued when a property owner provides additional technical information from a professional land surveyor, such as elevation of the natural ground (no fill) relative to the BFE.

NATURAL GROUND

FEMA does not charge a fee to process LOMA requests.

25

Lenders may waive the flood insurance requirement if the LOMA removes a building site from the SFHA because natural ground at the site is at or above the BFE.

Property owners who place fill to raise sites above the BFE can request Letters of Map Revision based on Fill (LOMR-Fs) described on page 31.

Access to FEMA's web-based application for professional land surveyors to submit eLOMAs is https://hazards.fema.gov/femaportal/resources/whatiseloma.htm.

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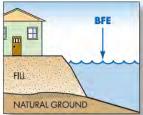
FIRM Revisions: Letters of Map Revision Based on Fill (LOMR-F)

The most accurate information available is used to make flood maps, including topographic base maps and detailed engineering methods or methods of approximation. FEMA issues map revisions if technical data are submitted to support the changes.

Letter of Map Amendment Revision Based on Fill (LOMR-F) is an

official FEMA determination that a structure or parcel of land has been elevated by fill above the BFE, and therefore is no longer in the SFHA for federal mandatory flood insurance purposes. Minnesota law requires additional steps to remove a structure or parcel of land from the SFHA for regulatory purposes.

To qualify for a LOMR-F, both the lowest floor (including basement or crawlspace), and the lowest point where fill is next to the building, must be at or above the BFE.

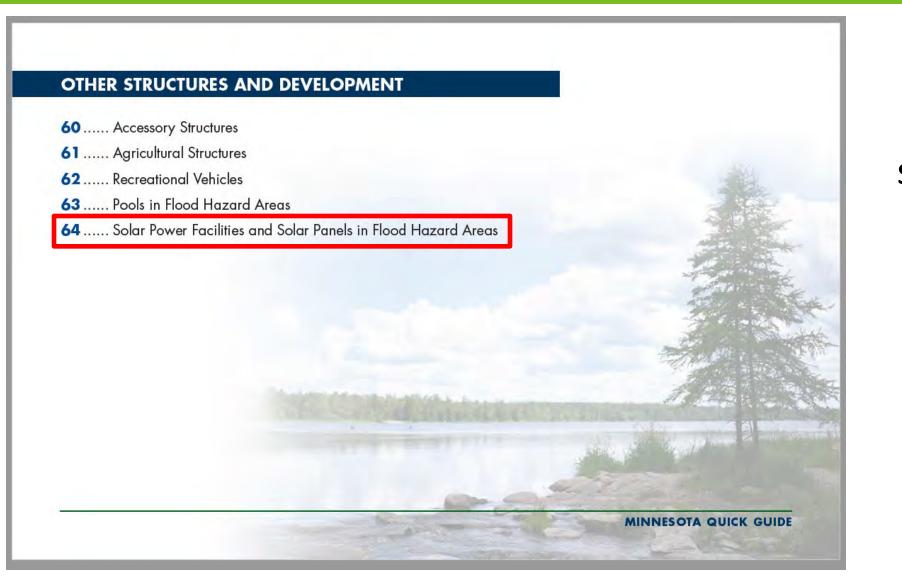


- Also: The application includes a Community Acknowledgement Form for the local official to state if the proposed fill complies with floodplain management regulations.
- The applicant must pay a fee to FEMA.

Property owners whose building sites are in the SFHA but on natural ground that is above the BFE can request Letters of Map Amendment (LOMAs) described on page 25.

Check NFIP Technical Bulletin #10 to learn more about elevating building sites on fill to be reasonably safe from flooding. Guidance on map revisions is available online https://www.fema.gov/flood-maps/change-your-flood-zone/loma-lomr-f.

Examples of Changes in QG



Reorganized section on Other Structures and Development

New Solar Page

Solar Power Facilities and Solar Panels in Flood Hazard Areas

Solar power facilities that generate power for off-site consumption (sometimes called solar farms or solar arrays), and **ground-mounted solar panels** that serve individual buildings, are allowed in SFHAs and Shoreland Districts provided:

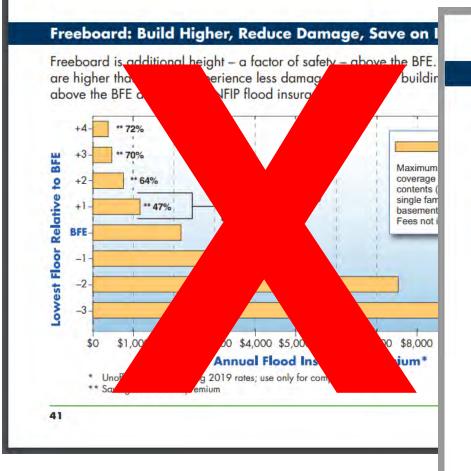
- Shoreland District: The structures satisfy shoreland management setbacks.
- Floodway: The structures are not located in floodways (see page 17). When a floodway is not delineated, an analysis is required (see page 42).
- Flood Fringe: The structures are allowed in flood fringe areas if they are:
 - Designed to have solar panels, when fully tilted, above the RFPE
 - Anchored to prevent flotation, collapse, or lateral movement during base flood conditions
 - Constructed with flood damage-resistant materials below the RFPE

Roof-mounted solar panels are allowed on buildings in SFHAs provided the roofs and connections to electric service are above the RFPE.

For additional guidance, download MNDNR's Considerations for Siting Solar Power Facilities Near Lakes and Rivers

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Due to FEMA's flood insurance rating changes (Risk Rating 2.0)



Freeboard: Build Higher, Reduce Damage, Save on NFIP Insurance

Freeboard is additional height – a factor of safety – above the BFE. Buildings that are higher than the BFE experience less flood damage.

- Minnesota law requires at least one foot of freeboard plus any stage increase due to floodway designation (RFPE, see page 19).
- Some communities adopt higher freeboard requirements.
- Owners and builders may add more freeboard to better protect their buildings and contents.
- Owners of buildings that are elevated above the BFE may save on NFIP flood insurance premiums.

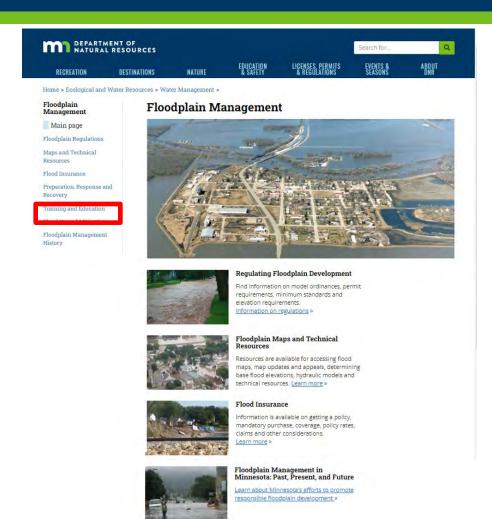


Possible NFIP Insurance Savings: For older buildings, some low-cost damage reduction actions may result in discounts in NFIP flood insurance premiums:

- Elevate machinery and equipment (M&E) to a higher floor.
- Install flood openings in walls of enclosures and attached garages used only for parking, building access, and limited storage.

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DNR Floodplain Web Site

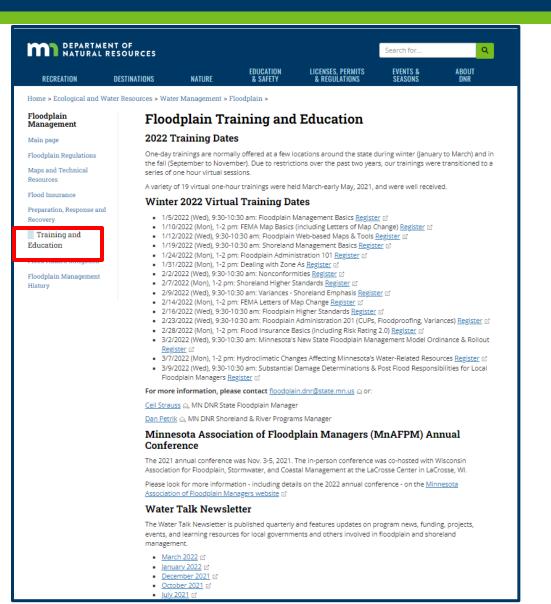


• Use mndnr.gov/floodplain or Search "MN Floodplain Management" for main page

• See upcoming trainings and past *Water Talk* newsletters on "Floodplain Training and Education" page (can also subscribe to *Water Talk*)

Previous Floodplain & Shoreland/Rivers Programs Training and Education Page

Old Training & Education Page



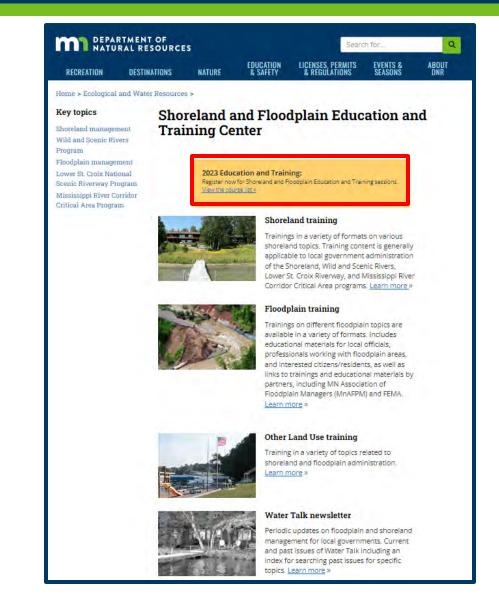
Trainings & Education Web Updates

New Pages!

- Separate pages for:
- Shoreland Training
- Floodplain Training
- Other Land Use Training
- Water Talk Newsletter

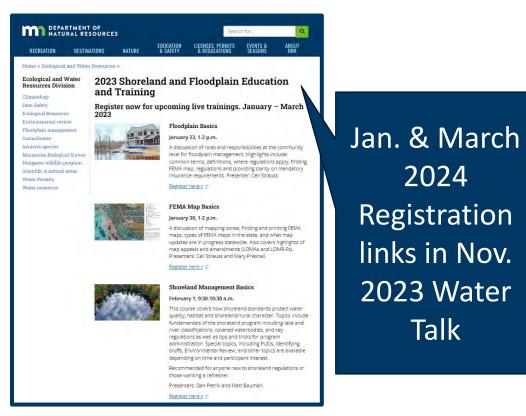
Past issues

• Future – by topics



Upcoming New Virtual Trainings

- ✓ 10/23/2023 FEMA New Elevation Certificate <u>Registration Link</u>
- ✓ TBD (Dec 2023) Mississippi River Corridor Critical Area (MRCCA)



- ✓ 1/08/24 Floodplain Basics
- ✓ 1/10/24 FEMA Map Basics
- ✓ 1/22/24 Shoreland Management Basics
- ✓ 1/24/24 Floodplain grading & Non-structural Development*
- ✓ 1/29/24 Better Culverts & Crossings*
- *New topic

- ✓ 1/31/24 Flood Insurance Basics
- ✓ 3/06/24 Dealing with A Zones
- ✓ 3/11/24 Floodplain & Watershed Higher Standards
- ✓ 3/13/24 Shoreland Higher Standards
- ✓ 3/18/24 Floodplain Violations and Enforcement*
- ✓ 3/27/24 Substantial Damage & Post Flood Responsibilities

Floodplain Trainings Page

Virtual trainings:

- 11 one-hour trainings Jan to March 2023 (9 updates, new H&H for Non-Engineers & new Floodplain Culverts); Recordings now available on Floodplain Training & Education page (plus several from early 2022)
- FEMA monthly topics: 9-10 am 2nd Wed of month

Monthly Office Hours:

• DNR/FEMA 10-11 am – 4th Thu

In Person Workshops: One day workshops in Brainerd/Little Falls, Rochester & Metro in March/April?

DEPARTMENT OF NATURAL RESOURCES				Searc	Search for		
RECREATION	DESTINATIONS	NATURE	EDUCATION & SAFETY	LICENSES, PERMITS & REGULATIONS	EVENTS & SEASONS	ABOUT DNR	
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Floodplain Regulations			oodplain Manage Training Courses	ment Office Hours			
Maps and Technical Resources	• <u>M</u>	MINAFPM Annual Conference EEMA Floodplain Trainings and Education					
Flood Insurance							
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	Upcomi	Upcoming monthly office hours:					
	• 10	10-11 a.m. Friday, Oct. 28, 2022 ∅ 10-11 a.m. Wednesday, Nov. 23, 2022 № 10-11 a.m. Thursday, Dec. 22, 2022 №					
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			level for commo FEMA m insuran	ision of roles and respo floodplain managemen n terms, definitions, wh pap, regulations and pro- ce requirements. Preser raining Ø, recorded 1/5, duled.	nt. Highlights ind ere regulations widing clarity or nter: Ceil Straus	lude: apply, finding mandatory s. <u>Watch the</u>	
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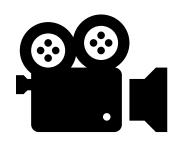
discussion of mapping zones, finding and printing FEMA haps, types of FEMA maps in the state, and what map polates are in progress statewide. Also covers highlights of hap appeals and amendments (LOMAs and LOMR-Fs).

Draft Letter of Map Change Videos

Goals

- Cover most common questions
- Keep each video under 10 minutes
- Target audience is local officials and homeowners, so aim to keep in plain language for person with no background





Current draft video topics

- 1. My house is in FEMA mapped floodplain, But I think it's high. What are the options to get the FEMA zone changed?
- 2. What is a Letter of Map Amendment (LOMA)?
- 3. How do I apply for a Letter of Map Amendment Out As Shown (LOMA-OAS) or a LOMA with LiDAR?
- 4. What is a Letter of Map Revision based on Fill (LOMR-F)?
- How to Apply for Letters of Map Amendments (LOMAs) and Letters of Map Revisions (LOMR-Fs).
- 6. Creating LOMA with LiDAR Map Using DNR's Lake & Flood Elevations Online (LFEO) Application

Townships – Clarifying When They Have Shoreland / Floodplain Authority

lssue

- Unclear whether townships are administering all or portions of Shoreland and/or Floodplain ordinances
- Past FEMA guidance on townships not clear

Goals

- Clarify legal authorities for townships versus counties for Shoreland and Floodplain
- Work with MN Association of Townships & MACPZA on Shoreland and Floodplain guidance for townships
- Verify FEMA interpretation of when townships are the floodplain zoning authority

Townships – Floodplain Authority

Olmsted letter prompts clarification from FEMA

- 8/4/2022 Letter from Olmsted County to FEMA & DNR with many clarifying questions
- DNR drafted response with FEMA input, but FEMA indecision on who would sign
- 1/20/2023 DNR response based on understanding of FEMA's positions
 - Township not considered floodplain zoning community unless they have a DNR-approved Floodplain Management ordinance (county is responsible)
 - ✓ Only Townships with DNR-approved ordinance are entitled to due process during mapping updates
 - Related discussion about only floodplain zoning townships are shown with boundaries & name on future FEMA maps.

Coordination with MAT and MACPZA on Floodplain Guidance for townships

- ✓ 4/6/2023 initial draft guidance to MAT attorney (used shoreland guidance lessons learned)
- ✓ 5/24/2023 DNR & MAT review; then DNR incorporates MAT input;
- ✓ 10/6/2023 11/21/2023 MACPZA & DNR group review of draft guidance

Townships – Shoreland Authority

Olmsted letter prompts clarification

- 8/4/2022 Letter from Olmsted County to DNR with many clarifying questions
- 9/13/2023 DNR response to Olmsted County letter

Coordination with MAT and MACPZA on Shoreland Guidance for townships

2/9/2022 – DNR/MACPZA work group meeting

Many, many meetings with MAT, MACPZA board and MACPZA work group

9/6/2023 DNR & MACPZA workgroup meeting

9/15/2023 sent MAT draft #5 on Shoreland guidance

10/26/2023 – DNR check-in with MAT

12/8/2023 – DNR present guidance at MAT conference

Climate Trends Outreach Documents

10/13/2022 - DNR presentation at MACPZA conference "Effective Climate Messaging for Local Officials"

Over past year

- Internal agreement to produce fact sheets:
 - 1. Climate Trends Affecting Shoreline and Floodplains
 - 2. How Climate Trends Affect Shorelands and Lakes
 - 3. How Climate Trends Affect Floodplains
- July 2023 Fact sheets 1 & 2 drafted & revised based on land use unit, climatology, lake specialists
- August 2023+ Working with DNR's creative services design unit & web master on better graphics for fact sheets, and website design

Overview: Risk MAP



- Previous effort to modernize maps
- Result: digital flood data and digital maps for 92% of population
- Improved flood data quality
- Limited up-front coordination
- Scoping not mandatory

RiskMAP

Increasing Resilience Together

- Collaborative approach
- Goals: quality data, public awareness, action that reduces risk
- Watershed-oriented
- Focus on up-front coordination
- Discovery is mandatory

Watershed Discovery Process

Discovery is the process of data mining, collection, and analysis with the goal of initiating a flood risk or mitigation project and risk discussions with the watershed

When:

- After an area/watershed has been prioritized
- Before a Risk MAP project is scoped or funded

Required for new and updated...

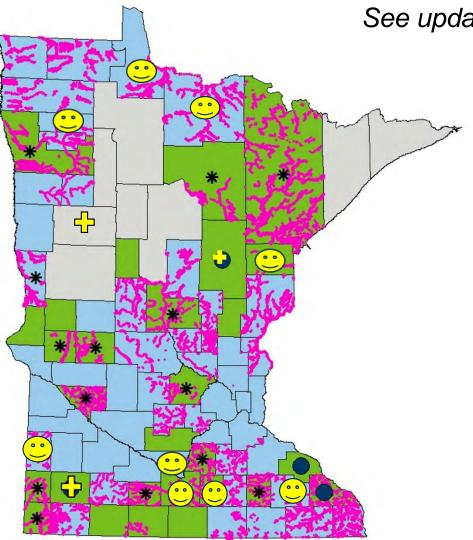
- Flood studies
- Flood risk assessments
- Mitigation planning technical assistance projects

Why:

- Increases visibility of flood risk information, education, involvement
- Helps inform whether a Risk MAP project will occur in the watershed



Mapping Updates Flood Insurance Rate Maps (FIRMs)



See updates of this map on DNR's Find Flood Maps page

- New DFIRM in Oct. 2022 to early 2024
 - **DFIRM** Counties
 - Paper Map Counties
 - **Unmapped Counties**
 - Estimated 1% Base Flood Elevations
- *
- Preliminary DFIRMs Available
- Countywide Modernization
- Funded through Preliminary New Maps

New Mapping Update process

- HUC8 Watershed Discovery
 - HUC8 Discovery Kickoff
 - Zone A modeling done
 - HUC8 Discovery meeting
- Countywide update
 - Countywide Kickoff
 - Countywide preliminary new maps issued
 - Local official meeting ("CCO") & Public Open House
 - 90-Day appeal period
 - Letter of Final Determination (LFD)
 - Communities adopt new maps
 - Effective new maps



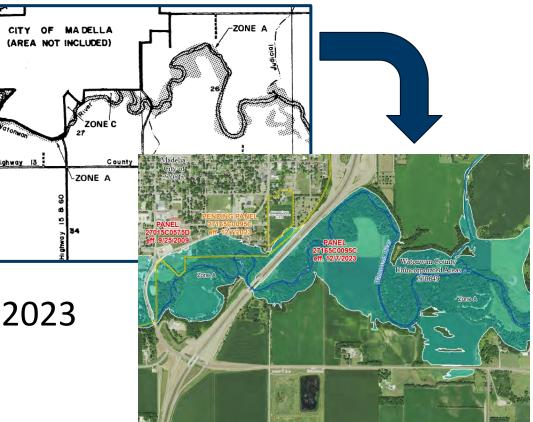




New Effective & Scheduled to be Effective

New Effective Dates:

- Nicollet County Oct 13, 2022
- Lake of the Woods County Oct 27, 2022
- Koochiching County Nov 17, 2022
- Pennington County Dec 1, 2022
- Lincoln County Sept. 7, 2023
- Olmsted (Zumbro HUC8 panels) Sept. 21, 2023
- Watonwan County Dec. 7, 2023*
- Blue Earth County Feb. 22, 2024*
- Carlton County March 13, 2024*
- Waseca County March 27, 2024 *



* Letter of Final Determine issued

Anticipated LFDs & Preliminary New Maps (subject to change...)

Anticipated LFDs:

- Pipestone County Oct. 25, 2023
- Le Sueur County Nov. 22, 2023
- Pope County Dec. 6, 2023
- Wright County Dec. 20, 2023
- Wilkin County (panels) Dec. 20, 2023

Anticipated Preliminary New Maps:

- Wabasha County Oct. 18, 2023
- Olmsted (levee panels) Dec. 20, 2023
- Winona County Feb. 2024 (or later)

Future LFDs:

- Stevens County Feb. 2024
- Morrison County March 2024
- St. Louis County by June 2024
- Dodge County TBD
- Chippewa County TBD
- Itasca County TBD

Future Preliminary New Maps (funded):

- Murray County
- Aitkin County
- Rock County (revised in Luverne area)

Other Mapping Projects

Better Data Letters of Map Revisions (LOMRs)

- Cottonwood/Windom
 - ✓ Aug. 3, 2023 Flood Risk Review Meeting
 - ✓ Sept. 2023 submitted to FEMA
- Wilkin/Nashua
 - ✓ June 6, 2023 Flood Risk Review Meeting
 - ✓ July 2023 submitted to FEMA
- Rainy River
 - ✓ Oct. 4, 2023 Kickoff

Countywide level Discovery

• Becker County (outside of Otter Tail River HUC8) – starts in next few months

See Anticipated Map Update Timing

			n as Month-Year a				
County	Status	Preliminary Map	Local Official / Open House	90-day starts	90-day ends	LFD*	Effective map date*
AITKIN	Co Modernization						NA
ANOKA	Effective	9/30/2011; rev 7/16/13	12/15/11	2/21/14	5/21/14	6/16/15	12/16/15
BECKER	No Map						NA
BELTRAMI	No Map						NA
BENTON	Effective	9/29/09	12/8/09	5/18/10	8/16/10	2/16/11	8/16/11
BIG STONE	Effective	10/01/04	2/16/05	6/21/05	9/21/05	10/17/05	4/17/06
BLUE EARTH	90-day ended	12/9/09; rev 4/20/11; 9/12/18; 8/28/20 (3 panels); Feb-23 (panels)	6/1/11; 11/7/18; 1/5/21; 6/10/21	9/21/11; 7/29/21; 11/10/21	12/20/11; 10/26/21; 2/8/22	2023	2024
BROWN	Effective	6/15/06	8/9/06	1/4/08	4/4/08	3/25/09	9/25/09
CARLTON	90-day ended	5/28/2021	8/19/21; 9/23/21	3/31/22; 6/24/22	6/29/22 9/22/22	2023	2024
CARVER	Effective	9/30/11; rev 9/14/15 & 1/31/18	3/8/2012; 7/19/2016	12/29/16	3/29/17	6/21/18	12/21/18
CASS	No Map						NA
CHIPPEWA	Preliminary	12/20/22	2023	2023	2023		NA
CHISAGO	Effective	2/19/10	5/12/10	11/11/10	2/10/11	10/17/11	4/17/12
CLAY	Effective	2/13/09	6/3/09	1/4/10	4/4/10	10/17/11	4/17/12
CLEARWATER	No Map						NA
COOK	No Map						NA
COTTONWOOD	Effective	06/25/19	12/18/19	7/15/20	10/13/20	3/24/21	9/24/2021
CROW WING	Effective	5/27/2011; rev 6/30/11	9/28/11	11/5/15; 12/11/15	2/2/16; 3/9/16	2/15/17	8/15/17
DAKOTA	Effective	7/3/08	9/24/08	11/24/08; 11/17/10	2/22/09; 2/18/11	rescinded; reissue 6/2/11	12/02/11

Link to Estimated Map Status Dates

HUC 8 Watershed Discovery Projects

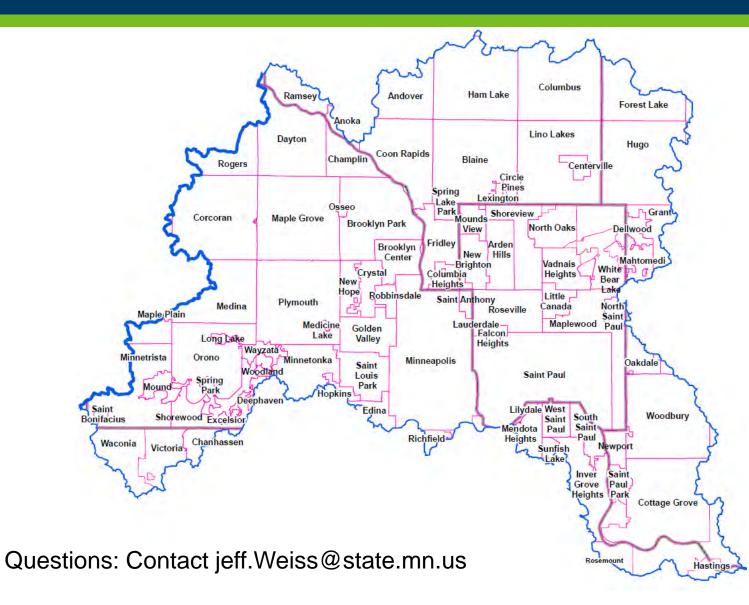
Completed Discovery Projects:

- Zumbro River Watershed
- Prairie-Willow Watershed
- St. Louis River Watershed
- Twin Cities Watershed: See next slide

Recent/Current Discovery Projects:

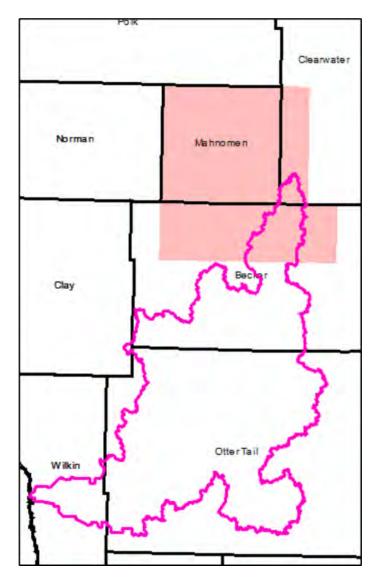
- Rum River Watershed (complete)
- Otter Tail River Watershed (complete)
 - Snake River Watershed (had kickoff)
- Lower Minnesota River West Watershed (had kickoff)

Twin Cities HUC-8 Data Development



- 2018 2025 (approx.)
- Getting supporting data for A zones
- Delineating A and AE Zones with LiDAR
- Working with several watershed districts to incorporate new AE hydrology & hydraulics

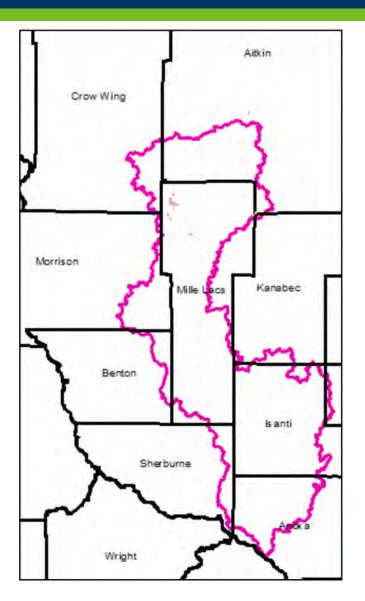
Otter Tail River HUC-8 Discovery



- Becker County
- Clay County
- Clearwater County
- Mahnomen County*
- Otter Tail County
- White Earth Tribal Reservation
- Wilkin County
- *Extremely small portion

- BFE estimates for ~130 lakes
- A Zone modeling for several mapped cities
- Timing
 - ✓ March 30, 2022 -Kickoff
 - ✓ May 31, 2023 Discovery
 - ✓ July 2023 Final report

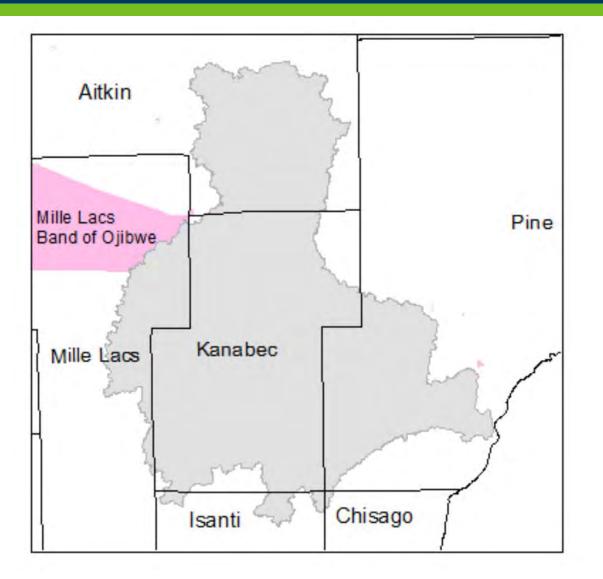
Rum River HUC-8 Discovery



- Aitkin County
- Anoka County
- Benton County
- Chisago County
- Crow Wing County
- Isanti County
- Kanabec County
- Mille Lacs County
- Mille Lacs Tribal Reservation
- Morrison County
- Sherburne County

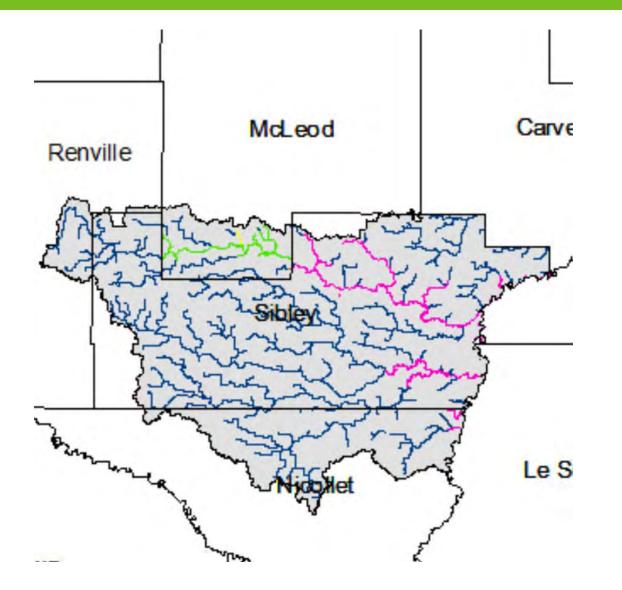
- A Zone modeling for Isanti & Anoka
 - Timing ✓ March 31, 2022 - Kickoff
 - ✓ June 1, 2023 Discovery
 - ✓ July 2023 Final Report

Snake River HUC-8 Discovery



- Most of Kanabec, parts of Aitkin, Isanti, Mille Lacs, Pine & Chisago (tiny)
- Getting supporting data for A zones in Kanabec & small area in Isanti
- Timing
 - ✓ Aug. 22, 2023 Kickoff
 - ✓ Summer 2024 Discovery

Lower Minnesota River (West) HUC-8 Discovery



- Most of Sibley, parts of McLeod, Nicollet & Renville
- Getting supporting data for A zones in Sibley & Nicollet (pink lines in map to left)
- Timing
 - ✓ Aug. 23, 2023 Kickoff
 - ✓ Summer 2024 Discovery

County Level Floodplain Map Viewers

	ARTMENT OF URAL RESOURC	ES		Sear	ch for	Q
RECREATION	DESTINATIONS	NATURE	EDUCATION & SAFETY	LICENSES, PERMITS & REGULATIONS	EVENTS & SEASONS	ABOUT DNR

Home > Ecological and Water Resources > Water Management > Floodplain >

Floodplain Management

Main page

Floodplain Regulations

Maps and Technical Resources

Flood Insurance

Preparation, Response and Recovery

Training and Education

Flood Hazard Mitigation

Floodplain Management History

County Data and Map Viewers

The following counties have data and/or viewers available, in addition to the official FEMA maps on <u>FEMA's Maps Service Center</u> ⊠.

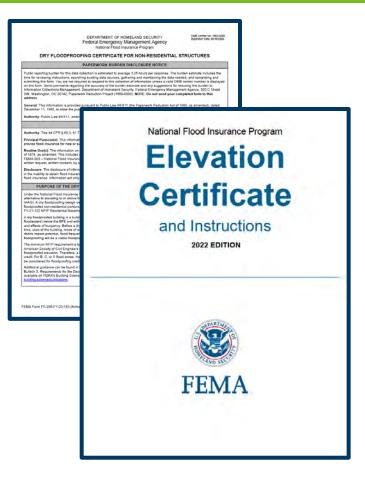
- Anoka County
 - <u>County Supported Map Viewer</u> ≥ includes features to help with Letter of Map Amendment applications
- Blue Earth County
 - Preliminary New FEMA Map ☑ (as of Aug. 28, 2020)
- Carlton County
 - Preliminary New FEMA Map ☑ (as of May 28, 2021)
- Chippewa County
 - Chippewa Work Map Viewer
- Cottonwood County
 - <u>Pending New FEMA Map</u> ⊿ (will be effective September 24, 2021)
- Goodhue County (part of county)
 - Preliminary New FEMA Map ☑ (as of Feb. 10, 2020)
- Hennepin County

National Flood Insurance Program (NFIP) Status

- Latest extension to Nov. 17, 2023
- Tends to be tied to continuing resolutions for budget What happens if the NFIP expires?
- No new flood insurance policies
- No renewals of flood insurance policies
- Remember A flood insurance policy is mandatory if:
- 1. any portion of the building is in or touching FEMA mapped Special Flood Hazard Areas (Zone A/AE or Zone V/VE)
- 2. The loan is federally backed (most mortgages & secured loans



New FEMA Elevation Certificate & Floodproofing Certificate



Where to get the forms

- On FEMA site
 - ✓ Go to FEMA's National Flood Insurance Underwriting Forms page
 - ✓ Scroll down to "NFIP Dry Floodproofing Certificate for Non-Residential Structures" or "Elevation Certificate Form and Instructions" & download
 - ✓ Note: If you get a "please wait" error, right click on the download file and save to your PC
- Request from <u>floodplain.dnr@state.mn.us</u>

When Using Floodproofing Certificate

	Copy all pages of this Dry Floodproofing Certificate and all attachments for 1) community off company, and 3) building owner. The dry floodproofing of non-residential buildings and the non-re- uldings may be permitted as an alternative to elevating to ar above the Base Flood Elevation (BFE lesign certification is required. This form is to be used for that certification. Dry floodproofing of a rest ommunity's floodplain management elevation requirements or affect the insurance rating unless the sception by FEMA to allow dry floodproof residential basements. The permitting of a dry floodproof equires a separate certification specifying that the design complies with the local floodplain manage PROPERTY INFORMATION	sidential portions of mixed-use however, a dry floodproofing idential building does not alter community has been issued a ofed residential basement
	PROPERTY INFORMATION	ment ordinance.
E	Building Owner's Name:	FOR INSURANCE COMPANY USE
	uilding Street Address (Including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:	Policy Number:
(City: State: ZIP Code:	Company NAIC Number:
f	Property Description (e.g., Lot and Block Numbers, or Legal Description) and/or Tax Parcel Number.	
	Building Use (e.g., Non-Residential, Mixed Use, Addition, Accessory, etc.):	
	atitude/Longitude: Lat. Long. Horizontal Datum: NAD 1927	NAD 1983 WGS 84
Ľ	SECTION I – FLOOD INSURANCE RATE MAP (FIRM) INFORMA	
LE		
	IFIP Community Name: NFIP Community Identification	
	County Name: Map/Panel Number	Suffix:
		od Zone(s):
	BFE(s) (Zone AO, use Base Flood Depth (BFD)):	
	ndicate the source of the BFE data or BFD entered above: Flood Insurance Study (FIS)	RM
	Community Determined Other:	
	ndicate elevation datum used for BFE shown above: NGVD 1929 NAVD 1988 Other	Source:
	s a Limit of Moderate Wave Action (LiMWA) shown on the FIRM? 🔲 Yes 📃 No	
	f Yes, is the property located in the Coastal A Zone [area between the LiMWA and Zone V boundary	
	s the property located in a floodway? Ves No If Yes, provide the velocity at the building lo	eation:
	s the property located in an alluvial fan?	
1	f Yes, provide the depth at the building location: and velocity:	
	SECTION II – DRY FLOODPROOFED DESIGN CERTIFICATIO (By a Registered Professional Engineer or Architect licensed in the State where the	
l e f	Note: For insurance rating purposes in all zones except for B, C or X, the building's dry floodproofec east one foot above the BFE to be considered for floodproofing credit. For B, C, or X Zones, the buil levation must be at least two feet above the natural HAG to be considered for floodproofing credit. loodproofed to the above-mentioned standards, then the building will be inteligible for floodproofing ection for information on documentation that must accompany this certificate if being submitted for f	ding's dry floodproofed design f the building is not dry redit. See the Instructions
1	triefly list measures incorporated into the design to meet the performance criteria for dry floodproofii howing the structure is designed with structural components that have the capability of resisting hyc pads and the effects of buoyancy and will be watertight and substantially impermeable to the passag	rostatic and hydrodynamic

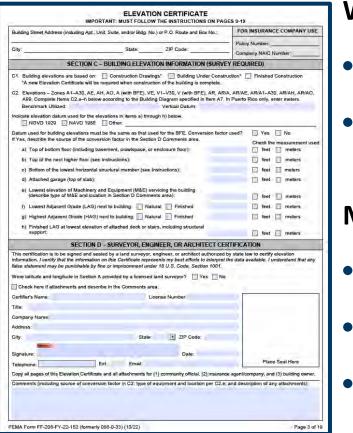
Dry Floodproofing allowed for Non-Residential Buildings

• if community allows the option in their floodplain ordinance

Dry Floodproofing for Residential buildings (different form):

- Generally prohibited by federal regulations
- Allowed only in "basement exception" communities (all in Red River valley area)
- Use the NFIP Residential Basement Floodproofing Certificate
 - ✓ Also available on <u>FEMA's National Flood Insurance</u> <u>Underwriting Forms page</u>

New FEMA Elevation Certificate



When Used

- Required if Community Rating System (CRS), otherwise recommended
- Used to be required for rating flood insurance; still recommended (since usually get better rate)

Main Changes

- Updates expiration from 11/30/2022 to 6/30/2026
- Section C & D still only filled out by licensed surveyor or PE
- Photos now required for all ECs (was just required when using the EC to get a flood insurance policy)
- Lots of language clean up on the form and in instructions
- Added new section H

New FEMA Elevation Certificate

SECTION H – BUILDING'S FIRST FLOOR HEIGHT INFORMATION FOR ALL ZONES (SURVEY NOT REQUIRED) (FOR INSURANCE PURPOSES ONLY)

The property owner, owner's authorized representative, or local floodplain management official may complete Section H for all flood zones to determine the building's first floor height for insurance purposes. Sections A, B, and I must also be completed. Enter heights to the nearest tenth of a foot (nearest tenth of a meter in Puerto Rico). *Reference the Foundation Type Diagrams (at the end of Section H Instructions) and the appropriate Building Diagrams (at the end of Section I Instructions) to complete this section.*

H1. Provide the height of the top of the floor (as indicated in Foundation Type Diagrams) above the Lowest Adjacent Grade (LAG):

a) For Building Diagrams 1A, 1B, 3, and 5–9. Top of bottom	feet	meters	above the LAG
floor (include above-grade floors only for buildings with			
subgrade crawlspaces or enclosure floors) is:			

b) For Building Diagrams 2A, 2B, 4, and 6–9. Top of next	teet	meters	above the LAG
higher floor (i.e., the floor above basement, crawlspace, or			
enclosure floor) is:			

H2. Is all Machinery and Equipment servicing the building (as listed in Item H2 instructions) elevated to or above the floor indicated by the H2 arrow (shown in the Foundation Type Diagrams at end of Section H instructions) for the appropriate Building Diagram?

Yes

No

Flood Insurance - Risk Rating 2.0 Is Here!

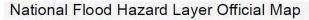
Since April 1, 2022:

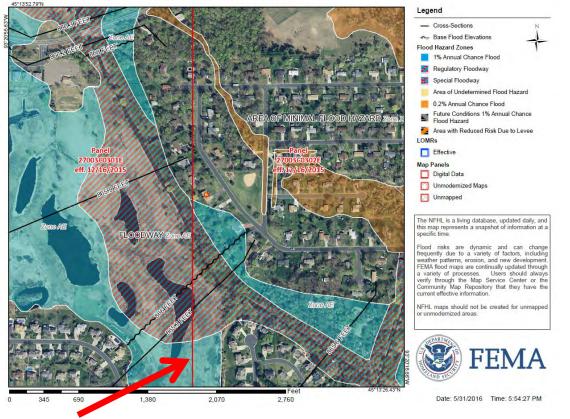
- ✓ All new policies use new rating
- ✓ All policies subject to new ratings upon renewal, but there are caps for annual increase
 - ✓ 18% for primary residential
 - ✓ 25% for non-residential and 2nd homes

Remember

The following stays the same:

- Only those in communities participating in the National Flood Insurance Program are eligible to purchase the federally backed NFIP flood insurance
- FEMA's Flood Insurance Rate Maps will continue to be used to determine Mandatory Purchase requirements and for Floodplain Management (local floodplain management ordinances)





High Flood Risk (must require flood insurance and regulate) 54

Biggest Rating Changes – No Zones, Elevation Certificate not Required

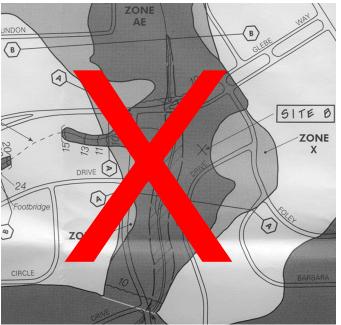
RR 1.0:

In SFHA

- ✓ Post FIRM: EC required; elevation rated
- ✓ Pre-FIRM: Separate Pre-FIRM table; elevation rated if cheaper
- Outside SFHA (medium and low risk X Zones)
- ✓ No EC; not elevation rated
- ✓ Discounted Preferred Risk Policy (PRP) rates (in most situations)

RR 2.0:

- \checkmark All zones treated the same
- ✓ EC not required (but can be used if better rate)



Outside SFHA: Can still choose amount of coverage; lenders prerogative to require

In Recent Past, ~65% Preferred Risk Policies (PRPs) in MN Glide path to "Full Risk Rate" at 18% (or 25%) annually

PRP TABLE 3A. PRP COVERAGE LIMITS AND BASE PREMIUMS FOR PROPERTIES CURRENTLY MAPPED IN B, C, X, AR, OR A99 ZONES¹

1-4 FAMILY RESIDENTIAL BUILDING AND CONTENTS COVERAGE COMBINATIONS

WITH BASEMENT OR ENCLOSURE ²			WITHOUT BASEMENT OR ENCLOSURE ³			
CONTENTS	PREMIUM	BUILDING	CONTENTS	PREMIUM		
\$ 8,000	\$127	\$ 20,000	\$ 8,000	\$100		
\$ 12,000	\$160	\$ 30,0	\$ 12,000	\$133		
\$ 20,000	5214	\$ 5	\$ 20,000	\$187		
\$ 30,000	8	٥	\$ 30,000	\$226		
\$ 40,000		,000	\$ 40,000	\$255		
\$ 50,000	\$	125,000	\$ 50,000	\$270		
\$ 60,000	\$321	\$150,000	\$ 60,000	\$290		
\$ 80,000	\$3	200,000	\$ 80,000	\$321		
\$100,000		000	\$100,000	\$344		
	\$ 8,000 \$ 12,000 \$ 20,000 \$ 30,000 \$ 40,000 \$ 50,000 \$ 60,000 \$ 80,000	\$ 8,000 \$127 \$ 12,000 \$160 \$ 20,000 \$214 \$ 30,000 3 \$ 40,000 \$ \$ 50,000 \$321 \$ 60,000 \$321 \$ 80,000 \$3	\$ 8,000 \$127 \$ 20,000 \$ 12,000 \$160 \$ 30,00 \$ 20,000 \$214 \$ 5 \$ 30,000 8 .0 \$ 40,000 .000 .000 \$ 50,000 \$1.25,000 \$ 60,000 \$321 \$150,000 \$ 80,000 \$321 \$100,000	\$ 8,000 \$127 \$ 20,000 \$ 8,000 \$ 12,000 \$160 \$ 30,0 \$ 12,000 \$ 20,000 \$214 \$ 5 \$ 20,000 \$ 30,000 8 0 \$ 30,000 \$ 40,000 8 0 \$ 30,000 \$ 50,000 \$12 125,000 \$ 50,000 \$ 60,000 \$ 321 \$ 150,000 \$ 60,000 \$ 80,000 \$ 321 \$ 00,000 \$ 80,000		

L CONTENTS RES VERAGE 1 FLOOR CATIONS (BASEMENT-ONLY NOT ELIGIBLE) CONTENTS ABOVE GROUND LEVEL ALL REMIUM CONTENTS PREMIUM \$ 8.000 \$20 \$ 8,000 \$40 \$ 12,000 \$37 \$ 12,000 \$66 \$ 20.000 \$70 \$ 20,000 \$104

Oct 2018 fees – Does not include: ICC premium (\$5-\$6), Reserve Fund Assessment (15%), HFIAA surcharge (\$25 or \$250) or federal policy fee (\$25)

Ranges from ~\$200 to \$700/yr

Reducing Complexity – Simplifying Info Needed

With Risk Rating 2.0, it's a much shorter list of "rating variables," but there are some changes in the variables.

- Distance to Flood Source & Flood Type
- Building Occupancy
- Construction Type
- Foundation Type
- Ground Elevation
- First Floor Height
- Number of Floors
- Prior Claims

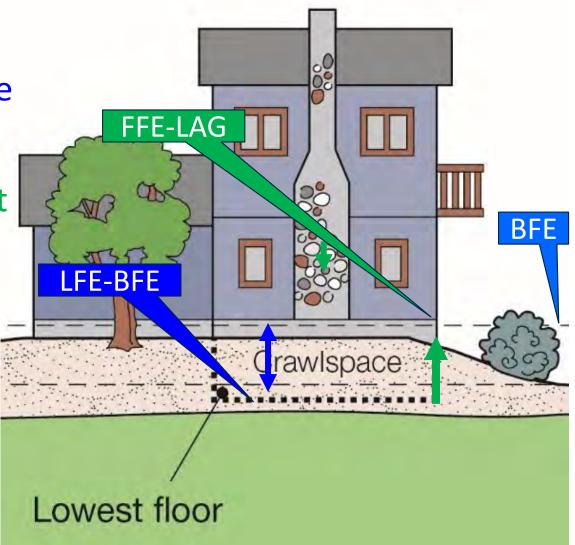


Biggest Changes – Different Elevations are Key

Key elevations:

- RR 1.0: Lowest Floor Elevation (LFE) Base Flood Elevation (BFE) (LFE – BFE)
- RR 2.0: First Floor Elevation (FFE) Lowest Adjacent Grade (LAG) (FFE – LAG)

Look at FFE for all – not just Post FIRM in SFHA



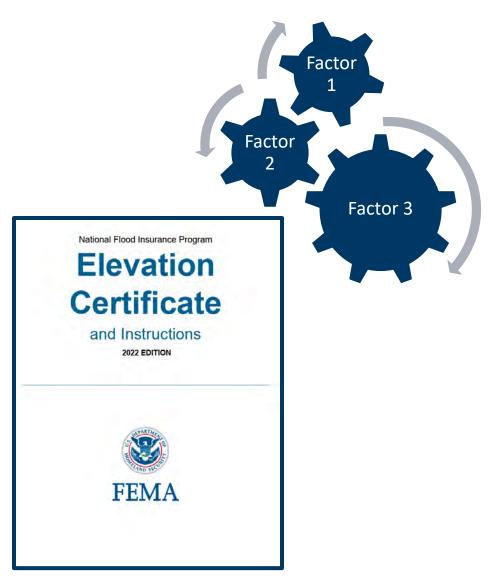
Methods to Measure First Floor Height

Method 1: System Generated

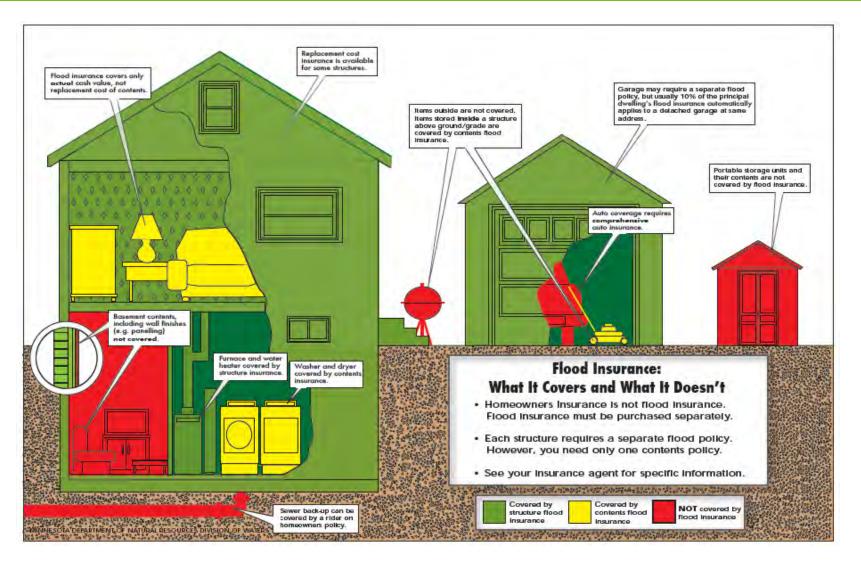
- Part of the new "rating engine"
- FEMA will determine a first floor height value using "informed assumptions, application information, and various datasets."

Method 2: Elevation Certificate

- No longer required, but can be used
- Still required for Floodplain Management (or other elevation documentation)



What Flood Insurance Covers



Contents & Building coverage separate

Statutory Discounts & Caps

Discount Explanation Guide

Risk Rating 2.0: Equity in Action is FEMA's individualized approach to risk assessment, built on years of investment in flood hazard information.

By using current data, flood models, and technology, FEMA considers many risk factors for individual properties, including frequency of flooding, multiple flood types, distance to a flooding source, and property characteristics such as elevation and the cost to rebuild.

Mitigation efforts, community programs, and other discounts can help reduce flood damage and, potentially, the cost of flood insurance. This guide provides discount information on certain rating variables that are generally applied to the building and contents premium.

Foundation Type

Below are the six Foundation Types, which provide importan Buildings Elevated with Enclosure Not on Posts, Piles, or Pi without Enclosure on Posts, Piles, Piers, if all rating variable

and instant		
Stab on Grade	Basement	Crawispace (including Subgrade Crawbyace)

First Floor Height

The First Floor Height (FFH), or the height of the building's f variable critical to understanding the flood risk. Generally, it following chart shows the discount percentage based on th charged for building and contents coverage. For example, a bove adjacent grade corresponds to a 22.1% discount cor whole numbers, the discount for FFH is continuously provid grade foundation and FFH of 1.25 feet will receive a discoudiscount for 1 foot and 2 feet.

Crawls (including Crawls	Basement	Slab on Grade	First Floor Height* (in Feet)
0.0	0.0%	0.0%	0
-8.0	-8.0%	-8.0%	1
-15.	-15.4%	-15.4%	2
-22.	-22.1%	-22.1%	3
-28.	-28.4%	-28.4%	4
-34.	-34.1%	-34.1%	5
-36.	-36.7%	-36.7%	6
-39.	-39.3%	-39.3%	7
-41.	-41.7%	-41.7%	8
-44.	-44.0%	-44.0%	9
-46.3% 10	-46.3% to -54.4%	-46.3% to -54.4%	10-14
-56.2% to	-56.2% to -70.9%	-56.2% to -70.9%	15-25

Statutory Discounts

FEMA provides statutory discounts on the first \$35,000 of coverage for buildings and \$10,000 of contents coverage for pre-Flood Insurance Rate Map (FIRM) primary residences and newly mapped properties, as well as those in the Emergency Program or located in the AR or A99 flood zone.

The table below shows the discount percentage that applies to the policy's first term of eligibility for the statutory discount. For subsequent renewal terms, the statutory annual increase cap applies.

Statutory Discount	Discount Percentage
Newly Mapped	70%
Pre-FIRM Discount	60%
Emergency Program	60%
AR Zone	60%

Discounts on first \$35,000 of building coverage and \$10,000 of contents coverage

- Newly Mapped 70%
- Pre-FIRM 60%

Subsequent year annual increases capped at:

- 18% primary residential
- 25% for non-residential or 2nd homes

FEMA Discount Explanation Guide

Questions? Priorities for New/Updated Information Sheets or Videos?







Thank You!

Ceil Strauss

Ceil.Strauss@state.mn.us

651-259-5713