Minnesota's Flood Hazard Mitigation Grant Assistance Program

Contributing to Flood Risk Reduction since 1987

Pat Lynch Minnesota Department of Natural Resources

DNR LGU Forum 15 November, 2023



Agenda

- Flood Hazard Mitigation Program Pat Lynch, DNR
- HSEM Hazard Mitigation Program Kristy Dellwo, DPS
- Rebuild of temporary emergency levee, importance of economic vitality of historic downtown, and stress relief during high water events – Ron Moorse, City of Afton
- Experience with varying flood mitigation measures using FHM and FEMA funds – Steven Lang, City of Austin
- History with FHM for large water storage projects Tracy Halstensgard, Roseau River WD
- General Q & A
- Future Forum Topics
- Training Updates





• Established by the <u>Minnesota Legislature in 1987</u> to help make flood risk reduction locally affordable.

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- Provides state cost share funding to local units of government to plan and implement a host of measures that reduce flood risk to public and private improvements.

- Established by the Minnesota Legislature in 1987 to help make flood risk reduction locally affordable.
- Provides state cost share funding to local units of government to plan and implement a host of measures that reduce flood risk to public and private property.
- Eligible projects include acquisition and removal of flood prone structures, levees, diversions, floodwalls, pumping stations, impoundments, flood mapping, warning systems, etc.

Who can apply?

- Counties
- Cities
- Townships
- Watershed Districts
- WMOs
- SWCDs
- LIDs
- JPOs

The program works well in part because....

- Flexibility & allocation discretion ensure the funds are directed to those at greatest risk, and are ready to implement mitigation actions.
- Projects are locally grown, locally managed.
- Partnerships = possibilities, key to program success



Minnesota Funding for Flood Hazard Mitigation 1988 - 2023

\$623 million in state funding since 1988, in addition to close to \$800 million in federal and local matching funds





Enabling legislation requires an equal non-state match from grantee

Local match can be in form of in-kind contribution, local funds, federal funds, private donations, local option sales tax, assessment to benefitted properties. Cannot match state funds with state funds.



Rider language in appropriation bills since about 2007 has limited the local share for municipalities, making flood mitigation a reality in many places that otherwise could not afford it. Formula is based upon the most current census information.

So... what have we accomplished together since 1987?

- Acquisition and removal of ~ 3,600 at-risk structures
- Levees
- Diversions
- Floodwalls
- Pumping stations
- Flood and multi-purpose impoundments
- Structural flood proofing

- Improved mapping, including statewide LiDAR
- Better land use planning and watershed management
- Improved flood forecasting
- Promotion of higher floodplain zoning standards
- Actively encouraging flood insurance regardless of flood zone

1987 – 2023:

300 Projects <u>Completed</u> & 35 In-Progress



~85% of funding awarded in the Red River Valley 300 Complete35 In Progress

Flood Mitigation is Cost Effective

Study suggests that on average, \$7 in future savings for every \$1 invested in flood mitigation.*



HSEM

December 2010

FEMA



7.47 - 48 buyouts



2.65 – 165 buyouts



Loss Avoidance Study

Austin, Minnesota, 163 Building Acquisitions Update of March 2001 Study *October 2013*

FEMA

* National Institute of Building Sciences Multihazard Mitigation Council, 2017







Community flooding Rochester, 1978

Acquisition and removal of flood prone structures is a high program priority



Over 3,600 structures physically removed from the floodplain. Thousands more protected by elevation, diversions, floodwalls, levees, pumping stations and flood storage.







Granite Falls

partnership, planning, patience & persistence













Future Challenges



Future Challenges

- Climate change may necessitate additional risk reduction efforts, or higher levels of protection. Traditional design standards may no longer be good enough. Is the 1% chance flood the appropriate level of protection?
- Continued commitment of the legislature. The funding appetite is waning. When does it end? The good news is the most vulnerable/at-risk communities in Minnesota now have some level of flood risk reduction.
- Communities with aging flood risk reduction infrastructure may face changing standards /requirements to maintain certifiable flood protection, but can they afford it?
- Continued development pressure in vulnerable areas

Working collaboratively, much has been accomplished to increase flood resiliency, but much more is needed. At current estimates, based upon local needs communicated to DNR, there are over \$125M in unmet state funding requests.

Thank you for your interest and attention this morning

If you have any questions or comments about today's presentation or the state's Flood Hazard Mitigation Grant Assistance Program, please contact me.

Pat Lynch, CFM Flood Hazard Mitigation Grant Assistance Program pat.lynch@state.mn.us 651.259.5691 DEPARTMENT OF

FEMA Hazard Mitigation Assistance Program

Kristy Dellwo, Hazard Mitigation Planner

November 15th, 2023

Homeland Security and Emergency Management

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Hazard Mitigation Definition

 Hazard mitigation is any sustainable action that reduces or eliminates long-term risk to people and property from future disasters. Mitigation planning breaks the cycle of disaster damage, reconstruction and repeated damage. Hazard mitigation includes long-term solutions that reduce the impact of disasters in the future.



Hazard Mitigation Assistance (HMA) Program





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Hazard Mitigation Grant Program (HMGP)

- Assists States, Tribes, and local communities in implementing long-term hazard mitigation measures following a major disaster declaration
 - 75% federal cost share / 25% Local
- Recent disaster declarations:
 - DR-4658 (spring 2022)
 - DR-4659 (spring 2022)
 - DR-4666 (summer 2022)
 - DR-4722 (spring 2023)



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Hazard Mitigation Eligible Projects

Construction

- Acquisition of homes/businesses
- Levees, floodwalls, floodproofing
- Elevating structures
- Saferooms
- Structural retrofits
- Retrofits to utilities
- Slope stabilization
- Drainage improvements

Non-Construction

- Hazard Mitigation Plan updates
- Advanced Assistance
 - Flood study
 - Project scoping
- Building code updates



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Eligibility Requirements

- Eligible applicants:
 - Local units of government
 - LGU can apply on behalf of individuals or businesses
 - Private Non-Profits can be eligible for HMGP
- Community must participate in NFIP
- County Hazard Mitigation Plan must be current
 - Local jurisdictions need to participate in planning process and adopt the county plan



Building Resilient Infrastructure and Communities (BRIC)

- Nationally competitive grant that provides funds for hazard mitigation planning and projects on an annual basis.
 - 75% federal cost share / 25% Local
- Priorities:
 - Mitigate risk to public infrastructure
 - Incentivize resilient investments in disadvantaged communities
 - Mitigate risk to one or more community lifelines
 - Incorporate nature-based solutions
 - Enhance climate resilience and adaptation
 - Incentivize the adoption and enforcement of building codes



BRIC Technical Criteria



project



Mitigates risk to one or more lifelines



Incorporates nature-based solutions



Applicant has mandatory tribal-, territory-, or state-wide building code adoption requirement (recent versions of International Building Code and International Residential Code)



Subapplicant has Building Code Effectiveness Grading Schedule Rating of 1 to 5



Application generated from a previous qualifying award or the subapplicant is a past recipient of BRIC non-financial Direct Technical Assistance



A non-federal cost share of at least 30% (or, for Economically Disadvantaged Rural Communities, a non-federal cost share of at least 12%)



Designation as an Economically Disadvantaged Rural Community



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BRIC Qualitative Criteria





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2022 BRIC Selections

- 803 applications and 325 selected for further review
- **55 states/territories** submitted projects
- 124 large competitive projects selected
 - FEMA selected projects from all states, tribes, and territories
- \$2.295 billion available funds
 - Requests totaled \$4.6 billion



2022 BRIC Selections

Top 5 project types:

- 1. Flooding 53 sub-applications
- 2. Infrastructure Failure 24 sub-applicants
- 3. Fire 9 sub-applicants
- 4. Drought 4 sub-applicants
- 5. Dam/Levee Break 4 sub-applicants



Flood Mitigation Assistance (FMA)

Funds can be used for projects that reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program.

- 1. *Project Scoping develop community flood mitigation projects and/or individual flood mitigation projects that will subsequently reduce flood claims against the NFIP.
- 2. *Community flood mitigation projects to address community flood risk for the purpose of reducing NFIP flood claim payments.
- 3. Technical Assistance
- 4. Flood Hazard Mitigation Planning
- 5. Individual Flood Mitigation Projects



FMA Selections 2022

Project Type	Sub-Applications	Total Funding
Flood Control	20	\$375.6 million
Acquisition	26	\$38 million
Elevation	97	\$220.3 million
Mitigation Reconstruction	4	\$5.4 million



Application Process for All Grants

Disaster

- Notice of Availability of Funds email letter from SHMO
- State priority
- Notice of Interest
- Trainings
- 12 to 18-month application period
- Full application
- SOW, Budget, budget narrative, BCA and supporting information, Environmental and historic preservation review
- Award within months

Non-Disaster

- Notice of Availability of Funds on Grants.gov
- Federal and state priority
- Nationally competitive
- Notice of Interest
- Trainings
- FEMAGO system
- 4-month application period
- Full application in FEMAGO
- Award 9+ months later

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Hazard Mitigation Assistance Program and Policy Guide

Hazard Mitigation Grant Program, Hazard Mitigation Grant Program Post Fire, Building Resilient Infrastructure and Communities, and Flood Mitigation Assistance

Effective March 23, 2023

Version 1.1 – Updated September 22, 2023

Federal Enterprise Architecture (FEA) Number: FP-206-21-0001



FEMA Hazard Mitigation Assistance Guidance

- Pre and Post Disaster Grants
- Application timelines
- Cost share 75/25
- Period of performance
- HM Plan component
- Benefit Cost Analysis
- Feasibility/engineering
- NEPA review



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Current Funding Opportunities

- HMGP
 - DR-4722 application period open until July 2024
- BRIC and FMA
 - NOI's being accepted through December 22, 2023
 - Application period TBD
- Notice of Interest (NOI)
 - Send us an email and we will give you the NOI: HazardMitigation@state.mn.us



Thank you!

Kristy Dellwo, Hazard Mitigation Planner

Email: Kristen.Dellwo@state.mn.us

Phone: 612-708-1383

HISE OF MULTING

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City of Afton Downtown Improvement Project

In Partnership with the MnDNR, the MnPFA, Washington County, the VBWD, MnBWSR and WSB

(Photos courtesy of WSB)

A Before and After Story

Afton, Minnesota

The City of Afton is a small rural river town with an "Old Village" historic downtown retail and residential area on the St. Croix River - a National Wild and Scenic Waterway.

Before: Afton's Old Village

- A deficient flood levee
- Numerous private septic systems on lots as small as 1/4 acre, many of which were in the flood plain of the St. Croix River, including some within the footprint of the levee
- No storm water infrastructure to manage localized flooding or to treat storm water before it flowed directly to the St. Croix River
- Crumbling local streets, sidewalks and main street.

Before: Flood Levee

• Volunteers, flood pumps, and sandbagging

- Inadequate flood protection for property in the floodplain
- A major effort was needed to set up flood pumps and schedule volunteers to monitor the flood pumps 24 hours a day
- Volunteers needed for sandbagging at deficient areas of the levee
- Commercial and residential buildings considered to be in the floodplain, so restrictions on improvements and high flood insurance rates

After: Flood Levee



- Upgraded levee that is 3 feet above the 100 year flood level.
- Two large automated flood pumps are built into the levee, No need for sandbagging during a normal flood
- Easy answer when Mayor asks "What are we doing to prepare for the flood?"
- The levee is certified by the Corps of Engineers
- FEMA removed the area of commercial and residential uses now protected by the levee from the restrictive floodplain requirements including high cost flood insurance requirements.

After: The Rest of the Story



- The levee project and the DNR grant funding became the foundation and catalyst for a much broader project.
- Leveraged the levee project and the DNR grant funding to obtain buy-in from additional funding partners
- Completed additional interrelated improvements that addressed the key infrastructure needs of the Old Village, protected the water quality of the St. Croix River and revitalized the downtown Old Village area.

Improvements to Revitalize the Old Village

- Corps of Engineers certified levee
- Wastewater collection and treatment system to serve the Old Village
- Reconstruction of all local streets in the Old Village including Afton's main street-County Road 21
- Construction of a storm sewer system and stormwater ponds

Collaboration and Funding Partners

- Minnesota Department of Natural Resources (MNDNR)
- Minnesota Pollution Control Agency (MNPCA)
- Minnesota Public Facilities Authority (MN PFA)
- Washington County
- Valley Branch Watershed District (VBWD)
- Minnesota Board of Water and Soil Resources (MNBWSR)

Awards Received



• CEAM (City Engineers Association of Minnesota) "Project of the Year"

• APWA (American Public Works Association) "Project of the Year Small Cities/Rural Communities Award"

• ACEC (American Council of Engineering Companies of Minnesota) "Honor Award"

• LMC (League of Minnesota Cities) "City of Excellence Award"

Final Thoughts

- Don't be afraid to aim high
- Work with great partners
- Be a great partner
- Celebrate!

Using all the Tools for Success— Flood Mitigation in Austin, MN

Steven Lang, City of Austin, MN





Credits:

This presentation was developed by the City of Austin, with assistance from Brad Woznak of SEH.

Project Location



City of Austin, Minnesota

- Population 26,325
- Economic Basis Agriculture, Food Industry
- Major Employers
 - Hormel Foods, Inc.
 - Mayo Clinic Health Systems Austin
 - Hormel Institute/Univ. of Minnesota
 - International Paper
 - Nu-Tek BioSciences



Background on Flooding History Cedar River

Date of Flood	Gauge Height(f	t.) Max. Discharge(c.f.s)
1. September 15, 2004	23.3	20,000
2. July 10, 2000	21.5	15,500
3. June 12, 2008	21.4	14,800
4. July 17, 1978	20.4	12,400
5. September 24, 2010	19.8	10,800
6. September 23, 2016	19.5	
7. August 15, 1993	19.4	
8. March 1, 1965	18.9	
9. July 7, 1978	18.1	
10. March 26, 1950	17.8	

Background on Flooding Issues

September 2004 Event Hydrograph



Recent Flooding History

- Flood of Record September 15, 2004
- Estimated damages \$8 \$10 Million



Flood of Record – September 15, 2004



Flood of Record – September 15, 2004



Floodplain Management Toolbox

Acquisition of Repetitive Loss Properties

Participation in Community Rating System

• Formation of Watershed District

Structural Flood Mitigation





First Major Tool – Acquisition of Repetitive Loss Properties

- Following the 1978 flood the City of Austin requested flood mitigation study which evaluated mitigation options including:
 - Channel Improvements
 - Channel By-passes
 - Upstream Reservoirs
 - Infrastructure Improvements
 - Property Acquisition
- Cost benefit analysis indicated high project costs versus acquisitions costs

Acquisition of Repetitive Loss Properties

- All acquisitions voluntary
- Offer based on appraisal; not negotiated after appraisal
- Guidelines for property to be acquired:
 - Subject to repetitive flood losses
 - Priority given to property with first floor damages
 - Created procedure to acquire neighborhoods, would not isolate parcels




Acquisition of Repetitive Loss Properties

- 385 residential parcels acquired
- 15 commercial business (including 2 areas relocated to a "cleaned" up Railroad site within the community)
- Creation of a Linear Park System
- Elimination of public infrastructure from flood impacted areas
- Approximately 50 residences remain within the floodplain.
- 1978-99 150 FEMA
- 2000-09 115 FEMA/FHM/LOST
- 2010-23 35 FHM/LOST



Acquisition of Repetitive Loss Properties









Results Highlighted in FEMA LAS Study

Table 4: Summary of losses avoided due to acquisitions in Austin, MN

Funding Sources	Total Acquisition Cost	Total Losses Avoided	% of Losses Avoided to Acquisition Cost	Return On Investment (ROI)
58 bldgs HUD (after 1978)	\$7,112,759	\$20,351,726	286.10%	2.86
4 bldgs sec. 1362 FEMA (after 1988)	\$270,797	\$1,521,651	561.90%	5.62
101 bldgs. – HMGP FEMA (after 1993)	\$7,042,430	\$16,400,693	232.90%	2.33
Totals and total averages	\$14,425,986	\$38,274,070	265.30%	2.65



Loss Avoidance Study

Austin, Minnesota, 163 Building Acquisitions Update of March 2001 Study October 2013

(Note: Dollars normalized to the year 2001 for all acquisition projects. The discount rate used for this normalization is 7 %.)





Formation of Watershed District

- City of Austin instrumental in formation of Cedar River Watershed District
 - To address watershed wide issues
 - Received a grant to evaluate management options and establish goals
 - Watershed boundaries include 4 counties and 7 incorporated cities
 - Goal to reduce water into Austin by 20%.
- The Watershed District has been successful with both water quality and structural mitigation projects. CRWD has used FHM dollars for structural impoundments.

Final Tool – Structural Flood Mitigation

- Relocation of entire at-risk area unfeasible due to City being founded on River
- Structural flood mitigation feasibility study authorized following 2004 flood event
- 12 phases of work identified to increase flood protection to North Main Area Commercial, Industrial & Business District



Local Option Sales Tax (L.O.S.T.)

- City identified need for funding source for flood mitigation
- Required State legislative approval granted 2006
- Required local referendum passed with 63% approval
- Established for 20 years
- Generates approx. \$1.5 million annually

City of Austin Flood Mitigation Projects (2007 – 2027)

	TOTAL	\$6,660,975	\$17,320,884	\$1,070,884	\$22,500,000	\$47,552,743	
Sanitary Sewer Collection	Improvements to collection sewers impacted by floodwaters.				\$3,400,000	\$3,400,000	On-going
Stream Bank Protection	Stabilize Stream Banks Throughout Public Property (Riprap & Establishn Cover)	Austin to Protect nent of Native			\$500,000	\$500,000	Not Scheduled
WWTP	Structural Mitigation Project at Wastewater Treatment Plant		\$4,000,000		\$4,000,000	\$8,000,000	On-going
Turtle Creek	Structural/Acquisition from I-90 to the Confluence of the Cedar River		\$3,000,000		\$3,000,000	\$6,000,000	Complete
East Side Lake	Structural Mitigation Adjacent	to 14th St NE			\$150,000	\$150,000	Complete
Scattered Site Acquisition	Acquisition of Commercial and Residential Property (Repetitive Loss Properties)		\$2,500,000		\$2,500,000	\$5,000,000	On-going
Railroad Revitalization Project	Acquisition of Commercial Properties (Block Grant)		\$1,045,884	\$465,000 \$405,884 (Bonding)	\$175,000	\$2,091,768	Complete
North Main	Structural Protection of Property From 4th Ave NE North to I-90, 12 Phases of Work	\$5,000,000 EDA	\$6,500,000		\$8,700,000	\$20,200,000	Complete
		\$1,660,975 FEMA	\$275,000	\$200,000	\$75,000	\$2,210,975	Complete
PROJECT	PROJECT DESCRIPTION	FEDERAL	FHM/DNR FUNDING	DEED BONDING	CITY LOCAL OPTION SALES TAX	TOTAL	PROJECT STATUS

Structural Flood Mitigation, 12-Phases



12-Phase Construction Timeline

• Phase 8

- Completed in 2008
- Project Cost: \$1.1 Million
- Phase 2-9-10-11-12
 - Complete in 2011
 - Project Cost: \$3.8 Million
- Phase 3-4-5-6-7
 - Complete in 2014
 - Project Cost: \$13.7 Million
- Phase 1
 - Complete in 2018
 - Project Cost: \$1.6 Million



Remaining Phases Floodwall Options Explored

Removable Panel Floodwall with Road Raise





Floodwall Timelapse



"By spending time and energy toward flood mitigation today, we can lessen the cost of disasters to our community tomorrow." Jon Erichson former City Engr.

Conclusions

- FEMA Loss Avoidance Study:
 - Shows that we are moving in the right direction with property acquisition and mitigation efforts.
- Experienced first hand
 - September 2010
 - 5th highest flood on record
 - September 2016
 - 6th highest flood on record
 - Mitigation efforts prevented ≈ \$10 Million in damages.
 - Community was back to business as normal within a couple days.

Thank you!

Utilizing FHM funding for large scale projects

Tracy Halstensgard, Administrator Roseau River Watershed District



Funding Experience

Federal

- FEMA
- Regional Conservation Partnership Program (RCPP) through NRCS
- Section 319 Nonpoint Source Management Program - EPA

State

- Flood Hazard Mitigation
 - FHMWG
- LSOHC
- LCCMP
- BWSR CWF

Clean Water, Land and Legacy Amendment (Legacy Amendment)

2008 Minnesota Constitutional Amendment to increase state sales tax by 3/8% from 7-1-2009 through 2034.



RRWD FHM funded projects Norland Impoundment and Hay Creek Setback Levees (2007 – 2013)

Palmville Fen Restoration and Flood Damage Reduction Project(2007 – 2013)

Roseau River WMA Pool 3 Outlet Project (2014 – 2019)

Roseau Lake Rehabilitation Project (2017 – ongoing)

Whitney Lake Project (2021 – ongoing)



Norland Impoundment ~10,000 af/gated





RRWMA Pool 2 Outlet



Benefits of the FHM funding for large projects



Ease of application process



Project development - being "in the cue"



Reimbursement process

Questions?





Upcoming LGU Forum Topics

Confirmed:

- 12/20/2023 Bluffs & Landslides
- 01/17/2024 Stormwater BMPs (Part 2) Shoreland focus

Future dates:

- •02/21/2024 TBD topic
- 03/21/2024 Dealing with Floodplain & Shoreland violations (tentative)

2023 - New LGU Page



Trainings & Education Web Updates

Separate pages for:

- Shoreland Training
- Floodplain Training
- Other Land Use Training
- Water Talk Newsletter
 - Past issues
 - Future by topics

Link to Shoreland & Floodplain Educations and Training page

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Shoreland management Wild and Scenic Rivers Program	Cent	er	-			-
Floodplain management		Participation of the second				
Lower St. Croix National Scenic Riverway Program		Register nor December 2	w for upcoming live 023 – March 2024	trainings!		
Mississippi River Corridor Critical Area Program		Register now fo <u>View the course</u>	r Shoreland and Floodplair <u>(list »</u>	n Education and Training sessions.		
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topics. Learn more

Topics & Registration Links for Upcoming Virtual Trainings Page

✓ 12/12/23 MRCCA Basics

- ✓ 01/08/24 Floodplain Basics
- ✓ 01/10/24 FEMA Map Basics
- ✓ 01/22/24 Shoreland Management Basics
- ✓ 01/24/24 Floodplain grading & Non-structural Development*
- ✓ 01/29/24 Better Culverts & Crossings*
- ✓ 01/31/24 Flood Insurance Basics
- ✓ 03/06/24 Dealing with A Zones
- ✓ 03/11/24 Floodplain & Watershed Higher Standards
- ✓ 03/13/24 Shoreland Higher Standards
- ✓ 03/18/24 Floodplain Violations and Enforcement*
- ✓ 03/27/24 Substantial Damage & Post Flood Responsibilities



This course covers how shoreland standards protect water quality, habitat and shoreland/rural character. Topics include fundamentals of the

*New topic

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)

Monthly Office Hours:

- DNR/FEMA 10-11 am 4th Thu
 - Nov. 16, 2023 (early due to Thanksgiving)
 - Dec. 28, 2023

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Floodplain Management History		t	opics. <u>Learn more</u> »		·		
	Monthly Vir	Monthly Virtual Floodplain Management Office Hours Talk with FEMA and DNR Floodplain program representatives during monthly virtual Minnesota Floodplain Management Office Hours. Hours will be 10-11 am, typically on the fourth Thursday of the month, but may be adjusted. Contact <u>floodplain dnn@state.mn.us</u> (link sends email) to request office hour meeting invites, or use the office hour links below.					
	Talk with FEM Minnesota Fk fourth Thurso (link sends en						
	Upcoming mo	onthly office hours:					
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	Recorded	l Training Co	urses				
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			EMA Map Basic	s			



discussion of mapping zones, finding and printing FEMA aps, types of FEMA maps in the state, and what map dates are in progress statewide. Also covers highlights of ap appeals and amendments (LOMAs and LOMR-Fs).

Upcoming Trainings/Office Hours (all FREE)

FEMA monthly topics: 2nd Wed of month

- 9-10 a.m. Nov. 29: Natural and Beneficial Functions of Floodplains | <u>Register</u>
- 9-10 a.m. Dec. 20: Community Rating System (CRS)

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



Recorded Training Courses

One-day trainings are normally offered at a few locations around the state during winter (January to March) and in the fall (September to November). Due to restrictions over the past two years, our trainings were transitioned to a series of one hour virtual sessions.

Floodplain Management Basics



A discussion of roles and responsibilities at the community level for floodplain management. Highlights include: common terms, definitions, where regulations apply, finding FEMA map, regulations and providing clarity on mandatory insurance requirements. Presenter: Ceil Strauss. <u>Watch the online training</u> cl, recorded 1/5/2022. Future live trainings to be scheduled.



FEMA Map Basics

A discussion of mapping zones, finding and printing FEMA maps, types of FEMA maps in the state, and what map updates are in progress statewide. Also covers highlights of map appeals and amendments (LOMAs and LOMR-Fs).

Thanks for Attending!

See you Dec. 20 for Bluffs and Landslides

