



March 2023

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Inside this issue:

| | |
|--|---|
| Letters of Final Determination (LFD) Process | 2 |
| LFD Community Check List | 3 |
| SEMA Floodplain Management Section Training | 4 |
| M/SMA Conference & ASFPM Conference | 5 |
| Other Contact Information | 6 |
| 2D Modeling HEC-RAS 6.0 Workshops | 6 |

State Emergency Management Agency (SEMA) Floodplain Management Section

Volume 5, Issue 3

Issue 3 - FY 2022 - Floodplain Management E-Bulletin

It's the third quarter of Fiscal Year 2022, and time for the third FY22 *Missouri Floodplain Management E-Bulletin*! Yes, we know it's calendar year 2023, but the Community Assistance Program—State Support Services Element (CAP-SSSE) Period of Performance (PoP) is July 1, 2022 thru June 30, 2023: Quarter 1: July 1 – September 30, 2022, Quarter 2: October 1 – December 31, 2022, **Quarter 3: January 1 – March 31, 2023**, and Quarter 4: April 1 – June 30, 2023. So, here we are in Qtr. 3 of FY22. but no matter the fiscal year or the quarter, the Missouri Floodplain Management Section Staff is always here to help Missouri communities with floodplain manage-

We're always looking for flooding photos, elevated structure photos, projects demonstrating stormwater management techniques and "green" projects, so please share them with us! Be sure to include your name, the location, and the date of the photo. Send photos to: karen.mchugh@sema.dps.mo.gov



Pelican Island Natural Area, North St. Louis

Pelican Island Natural Area: <https://mdc.mo.gov/discover-nature/places/pelican-island-natural-area>

Pelican Island is considered to be the best remaining example of a mature floodplain forest in the Missouri River floodplain. An 1878 map showed two islands at this location in the Missouri River where Pelican Island is today. In 1945 Congress passed an amendment to the 1912 Missouri River Bank Stabilization and Navigation Act, which made provisions for a nine foot-deep, three hundred foot-wide channel. Man-made changes to the river since 1945 have indirectly produced the one large island, Pelican Island, that we see today.

The island is comprised of a mix of riverfront forest, slough, shrub swamp and old-field habitat. The floods of 1993 and 1995 killed a number of trees, but riverfront forest is a dynamic ecological community type, and new trees have since grown back. Botanical species such as cottonwood, black willow, sycamore, hackberry, sugarberry, silver maple, box elder and red mulberry form forests ranging from thickets of young trees to mature stands. Vines are common, including raccoon grape, other grape species and poison ivy. Unfortunately, due to the dynamic nature of this ecosystem, a number of invasive, exotic species have made homes in the understory, including invasive vine species and Japanese hops.

In the spring, just as the forest is greening up, look for migrant birds such as warblers including the American redstart, Nashville warbler, magnolia warbler, black-throated green warbler and the bay-breasted warbler. River habitats such as the Car of Commerce Chute and other habitats around the island are important areas for big river fishes such as sturgeon chub, sicklefin chub, channel catfish, and flathead catfish. In addition, the island's forested wetlands provide habitat for large numbers of gray treefrogs.

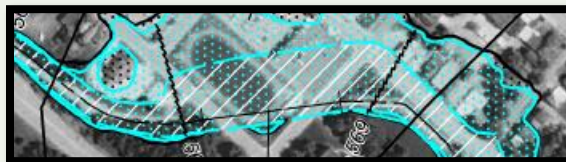
A Letter of Final Determination (LFD) is a letter from FEMA to the Chief Elected Official of a community, stating that a new or updated Flood Insurance Rate Map (FIRM) will become effective in six months (180-days). The letter also notifies each affected flood-prone community participating in the National Flood Insurance Program (NFIP) that it must adopt a compliant floodplain management ordinance by the map-effective date to remain participants in good standing in the NFIP.

Because this is such an important process for the State and its NFIP-participating communities, the Floodplain Management Section has created a step-by-step process regarding LFDs that is meant as a guide to be used by the community. If your community is in the process of receiving new Flood Insurance Rate Maps along with a new Flood Insurance Study, the next few pages were created to help you through the ordinance update process. Please remember that the Floodplain Management Section Staff is always here to help communities through the map adoption process!

1. FEMA will mail a Letter of Final Determination (LFD) to the Chief Elected Official 180 days prior to the effective date of the new Flood Insurance Rate Maps (FIRMs) and Flood Insurance Study (FIS).
2. The State NFIP Coordinator will receive the same letter by email. Missouri Floodplain Management Officer Lynn Welch will send each NFIP-participating community's floodplain administrator a personalized email as a point of initial contact. The email will state that the community will soon receive a phone call from the state's floodplain management section about map adoption and ordinance updates.
3. During the phone call, the Missouri floodplain management officer will discuss ordinance updates that include higher standards. The purpose of the call is to be certain that the updated ordinance adopts at least the minimum NFIP regulations and any higher standards that are important to the community for keeping its citizens safe from harm.
4. Soon thereafter, the community will receive by email a completed Floodplain Management Ordinance at the correct level of regulation with any higher standards mentioned during the phone call. If the community does not have an email address, a hard copy of the ordinance will be mailed. Included in the email will be important instructions for the community.
5. The ordinance must be adopted prior to the effective date of the new FIRMs. FEMA will send out 90, 60 or 30-day suspension letters for communities that have not yet adopted the FIRMs and FIS.
6. Once adopted, the community must send a **signed, sealed and dated** ordinance back to Floodplain Management Officer Lynn Welch at (lynn.welch@sema.dps.mo.gov). Lynn will evaluate it and send it on to the correct FEMA Region VII staff.
7. If, during the evaluation process, the Floodplain Management Officer finds the ordinance to be compliant, the community will receive a final email stating that the ordinance has been evaluated, found to be compliant, and sent to the FEMA Region VII Office in Kansas City.
8. If, during the evaluation process, the Floodplain Management Officer finds that the ordinance is not in compliance with NFIP regulations, the community will be notified immediately with instructions on how to correct the issues. The state will not send a noncompliant ordinance to the FEMA Region VII Office in Kansas City.

Page three has a Community Check List that will help community keep organized!

| Check When Completed | Action Taken by the NFIP Participating Community |
|----------------------|---|
| | Received Letter of Final Determination from FEMA with the new Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) Effective Date stated. |
| | Floodplain Administrator received early email from the State's Floodplain Management Officer. |
| | Floodplain Administrator received a call from State's Floodplain Management Officer to discuss the current ordinance, the new ordinance, and higher standards. |
| | Floodplain Administrator received a completed Floodplain Management Ordinance from the State Floodplain Management Officer. |
| | Floodplain Administrator shared the Floodplain Management Ordinance with Chief Elected Officer (Presiding Commissioner, Mayor, Chairman). |
| | CEO or Floodplain Administrator contacted the community's attorney for advice regarding hearings (readings) prior to ordinance adoption. |
| | If advised by attorney, held hearing (s)/readings regarding updated Floodplain Management Ordinance. |
| | Ordinance was adopted PRIOR to the 180-day effective date. One month ahead of the effective date is best. If there are issues with the ordinance, there is time for them to be corrected prior to the effective date. **If the new map panels and the FIS are not adopted by the effective date, the community will be suspended from the National Flood Insurance Program.** |
| | Adopted Ordinance has been: 1. Signed by the CEO 2. Sealed with the city's seal, and 3. Dated. (If the seal is an embossed seal, darken it with graphite or pencil lead.) If the city does not have a seal. "NO SEAL" is written in the area where the seal should be stamped. |
| | Ordinance scanned in its entirety, and emailed to: lynn.welch@sema.dps.mo.gov If the community does not have scanning capability, a copy was mailed to: Lynn Welch, CFM PO Box 116, Jefferson City, Missouri 65102. |
| | Received final email from the State's Floodplain Management Officer. |
| | Use current effective FIRMs and FIS for regulating new development. Marked now historic maps as "HISTORIC" and kept for future references. |



2023 Training Opportunities

Floodplain Administrators should have received the 2023 Floodplain Management Training and Education Opportunities brochure by mail. Here are the highlights!



2023 Tools of Floodplain Management

| | |
|--------------------------|-----------------|
| May 15, 2023 - 1st day | 1:00pm - 5:00pm |
| May 16, 2023 - 2nd day | 8:00am - 3:00pm |
| July 19, 2023 - 1st day | 1:00pm - 5:00pm |
| July 20, 2023 - 2nd day | 8:00am - 3:00pm |
| Sept. 21, 2023 - 1st day | 1:00pm - 5:00pm |
| Sept. 22, 2023 - 2nd day | 8:00am - 3:00pm |

2023 Substantial Damage Estimator (SDE) 3.0 Training Locations

April 5, 2023— West/ South St. Louis County

Webster Groves City Hall, 4 East Lockwood, Webster Groves

May 24, 2023 — Osage County

Osage County Community Center, 1 Technology Drive, Linn

July 13, 2023 — Clark County

Clark County Courthouse, 111 E. Court St., Kahoka

August 24, 2023 — Grundy County

Trenton Fire Department, 1001 East 17th Street, Trenton

September 14, 2023 — Clinton County

Clinton County Courthouse, 207 N. Main, Plattsburg

October 19, 2023 — Chariton County

Chariton County Courthouse, 306 South Cherry St., Keytesville

November 16, 2023 — Pike County

Pike County Courthouse, 210 W. Main Street, Bowling Green

December 14, 2023 — Morgan County

Morgan County Justice Center, 211 East Newton St., Versailles

SEMA Floodplain Management Sections Virtual Lunch & Learn Series

Basic NFIP 101—1 hour CECs

March 23, 2023, 11:30am-12:30pm

A Guide to Writing Proper Floodplain Development Permits - 1 hour CECs

April 27, 2023, 11:30am-12:30pm

Preparing for Post-Disaster Responsibilities 1-hour CECs

May 25, 2023 11:30am-12:30pm

Floodplain Question & Answers

June 22, 2023, 11:30am-12:30pm

Look for emails from Lynn Welch for registration.

2023 Tools & SDE 3.0 Course Registration Made Easy!

Access course registration at: <https://mfsma.org/meetinginfo.php>

MfSMA Membership Renewal Notice

It's membership renewal time again for the Missouri Floodplain and Stormwater Manager's Association, Inc. (MfSMA, Inc.). MfSMA's goal is to provide you with valuable information, educational workshops, and a useful peer network to aid in your role in floodplain or stormwater management. Each year our membership grows; MfSMA now represents community officials, engineering professionals, realtors, appraisers, employees of private sector industries, and other individuals who are involved in floodplain and stormwater management. We are proud of our growing membership, and we need you to help build and sustain our organization.

As MfSMA starts its new year, the hope is that you will continue to be a part of this very important organization! If you have not yet renewed your membership, please take a moment to visit the MfSMA website (mfsma.org). Membership dues have changed: The cost of an individual membership is \$50.00 and a corporate membership is \$200.00. Please be aware that the corporate membership fee entitles you to up to five (5) voting members. A \$10 student membership is new this year.

MfSMA Annual Conference

Be sure to mark your calendar for the MfSMA Annual Conference, from August 30th - September 1st, to be held at Margaritaville Lake Resort, Lake of the Ozarks. The MfSMA Board is working for an excellent 2023 conference experience, so please join us. The Keynote speakers are:

Gerald Galloway J.R., PhD, P.E. In 1993 and 1994, Dr. Galloway was assigned to the White House to lead an interagency study of the causes of the Great Mississippi River Flood of 1993 and to make recommendations concerning the Nation's floodplain management program. 30 years later, we are fortunate to have Dr. Galloway as a keynote speaker!

Robert Holmes J.R., PhD, P.E. Dr. Holmes was the national flood hazard specialist and coordinator at USGS headquarters, serving as the senior advisor on flood science and response. He was with USGS for nearly 28 years, having served in various positions including director of the USGS Illinois Water Science Center.

The 2023 Conference theme is titled:

Flood Amnesia—Out of Sight, Out of Mind



ASFPM Annual Conference

Mark your calendars now for the 2023 ASFPM Annual Conference May 7—11, 2023 in Raleigh, NC. There is simply no better place to learn from industry experts who will provide you with the tools and insights to help you be more effective in your job! ASFPMconference.org

Don't miss the 47th ASFPM Annual Conference. See you in Raleigh!

Missouri Floodplain Management Section
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The Mission Statement of the Floodplain Management Section:

The mission of Missouri's Comprehensive Floodplain Management Program is to make the state and its citizens less vulnerable to the impact of flooding through the effective administration of statewide floodplain management, and to provide local communities with the tools and resources for managing, assessing, and planning for development in floodprone areas; to save lives; and to protect property.

Social Media:



Other Contact Information

National Flood Insurance Program:

Ally Bishop, Region VII Regional Manager

Phone: 913-837-5220

ally.bishop@associates.fema.dhs.gov

Christopher (Chris) Parsons, NFIP Insurance Specialist

Phone: 816-283-7980

christopher.parsons@fema.dhs.gov

Martin Koch, CFM, Emergency Management Specialist

Phone: 202-880-5852

martin.koch@fema.dhs.gov

2D Modeling HEC-RAS 6.0 Workshops

The goal of the 2D workshops is to develop and provide technical training to state agencies, local officials and local technical community members to assist in the transition from 1D to 2D Flood Risk Identification and NFIP Floodplain Management.

The accuracy of risk identification is greatly enhanced with 2-D modeling, but needs to be integrated locally to maximize its potential for effective floodplain management. During this workshop you can expect:

- Broadened knowledge of Flood Risk 2-D modeling
- Hands-on experience pulling information from new 2-D models
- Continuity of synergy from Risk MAP deliverables
- Understanding of the NFIP floodplain versus the results of the rain on grid 2-D hydraulic models
- Continued building of partnerships through education and utilizing comments to assist in policy changes

Training will include:

- Description and explanation of model development hydrology and hydraulics
- A User Guide for basic needs of floodplain managers and engineers to determine floodplain management answers from existing models
- A process to modify models for 3 typical floodplain management scenarios
- Learning the development of LOMR for modifications
- Facilitating a discussion of issues and concerns for follow up post training.

HEC-RAS Workshop Flyer

Workshop Locations & Dates: *All locations, workshops will be held from 8:00 am to 4:00 pm.*

April 10, 2023 - Beginner Workshop - Greene County Public Safety Center, [330 W Scott St. Springfield, MO 65802](#)

April 11, 2023 - Advanced Workshop - Greene County Public Safety Center, [330 W Scott St. Springfield, MO 65802](#)