A Note from the Chair
Invitation to the 2018 Annual KAMM Conference!

The 2018 KAMM conference theme, *Mitigation Superheroes: Investing in Our Communities*, recognizes the noteworthy actions that are being undertaken by mitigation superheroes from across the Commonwealth.

KAMM conference attendance continues to grow. This year, we expect nearly 200 attendees! The two-and-a-half day conference agenda features sessions from KAMM favorites like Joe Sullivan and the Kentucky Silver Jackets and also highlights new and innovative mitigation-related projects and topics.

Over 75 speakers will provide best practices, highlights of funding opportunities, and “how-to’s” for various hazard and mitigation-related activities and initiatives. The pre-conference (free) day has 3 workshops and several recreation activities planned. Join KAMM for a day of (free) training or site seeing!

The conference agenda has been designed to allow you to follow a topic throughout the day or jump around and gather tidbits of great information from many disciplines. We will also have Board member representative elections in KAMM Regions I and III. The conference or “KAMM family reunion” as some like to call it, provides a great opportunity to network, share your stories and best practices, and visit with our sponsors and vendors.

This year, the Commonwealth has been impacted by two federally declared disasters and countless other storms, floods, landslides, and localized events. The path forward is challenging but there are ample opportunities to assess, manage, and execute mitigation efforts if we work together and learn from each other. Now is the time to step up to the challenge...before the next big one affects us.

This newsletter gives a great overview of new announcements, NFIP and CRS developments, and scientific updates. FEMA has recently announced a record amount of funding available for the 2018 Flood Mitigation Assistance (FMA) and Pre Disaster Mitigation (PDM) programs. Flood insurance rating is also undergoing a major facelift. Soon flood insurance will be rated much differently than it has been historically. This paradigm shift can only lead to several others changes within the NFIP. You’ll hear more about all of this at the conference.

Many thanks to the Board, committees, sponsors, and members for supporting KAMM and for making the Commonwealth a safer, more resilient place.

I encourage everyone to become involved in KAMM; whether through the conference, participating in one of our committees, in Regional sessions, or by donating to the KAMM Silent Auction.

Mitigation Matters.

Carey Johnson
2018 KAMM Conference Information

*Mitigation Superheroes: Investing in Our Communities*

**September 17, Preconference Free Workshops and Activities**

**September 18 – 20, Annual Conference**

**Conference Registration Fees:** The registration fee is for September 18 – 20 (Tuesday AM – Thursday lunch) and will include continental breakfast, lunch, dinner, breaks, conference materials, and the KAMM networking events.

- $175 for Members
- $200 non-member
- **Conference Special:** Membership is based on a calendar year. If you are not a member and want to pay for membership ($25) and conference fees ($175) together, then select Conference Special to pay for both ($200).

**Conference Registration**

Link to [Conference Registration](#) for more information. Or please select the appropriate Payment Method to register.

- Conference Registration – Pay by Check
- Conference Registration – Pay by Credit Card

**Group Payments** – Use Pay by Check Registration

**Preconference Only** – Use Pay by Check.

Preconference is free, we just need you to register.

**KAMM Conference Agenda:** Link to the [2018 KAMM Conference agenda -DRAFT 8 06 18](#).

**Conference Speaker Overview:** Link to the [2018 Conference Speaker overview 07 06 2018](#) that includes presentation titles.

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2018 KAMM Conference Sponsorship Announcement

*Show your support of KAMM and increase your visibility through being a Sponsor at the 2018 Annual KAMM Conference*

The Annual KAMM Conference provides a forum for professionals involved in floodplain, emergency management and all-hazards risk mitigation to meet and share their knowledge and experience. The statewide appeal of this conference provides a unique opportunity for the private sector to promote their businesses to a large and geographically dispersed audience. *Over 60% of our membership consists of local, regional, state and federal agencies.*

**Sponsor Invitation:** Click to the [2018 KAMM Conference Sponsorship Invitation Final](#).

**Conference Sponsor Levels & Benefits:** KAMM has five levels of sponsorship packages this year! *Almost all of the Sponsor Levels include conference registrations.* Link to [more information](#).

- Platinum – $2,500+
- Gold – $1,500
- Silver – $1,000
- Bronze – $500
- Tin – $250

**Current List of Sponsors:** Link to [our Superheroes](#).

**Sponsor Registration:** Please select the appropriate Payment Method.

- Register and Pay by Check
- Register and Pay by Credit Card
KAMM Preconference Day Activities

Monday, September 17, 2018

All Times Central

We have various free activities for you to do on our pre-conference day. Two 4-hour workshops are offered in the morning and afternoon as well as a Weather Spotter class and fun activities. Please register to attend so that we can plan accordingly. Lunch on your own. Dinner to be provided.

Download the Preconference Agenda, link to the Preconference Agenda.

Link to the announcements for more information

MORNING ACTIVITIES

Substantial Damage Estimator (SDE) 4-Hour Workshop
Presenter: Mark Vieira, FEMA RIV

This workshop is a must for anyone who provides local damage assessments. The SDE tool was developed by FEMA to assist State and local officials in determining substantial damage for residential and non-residential structures. The SDE tool can assess flood, wind, wildfire, seismic, and other forms of damage. It helps communities provide timely substantial damage determinations so that reconstruction can begin following a disaster.

Link: 2018 KAMM Preconference Substantial Damage Estimator Workshop Final

8:00 am – Noon

NWS SKYWARN Weather Spotter Training
Presenter: Joe Sullivan, NWS

SKYWARN® storm spotters are citizens who form the nation’s first line of defense against severe weather.

Link: 2018 2018 KAMM Preconference Weather Spotting Training Final

9:30 – 11:30 am

Certified Floodplain Manager (CFM) Exam
Proctor: Abby Rains, CFM

The Association of State Floodplain Managers (ASFPMS) has established a national program for professional certification of floodplain managers.

Link: 2018 CFM Exam Final

9:00 am – Noon

Lunch on Your Own

AFTERNOON ACTIVITIES

KAMM Annual Golf Outing
An exciting afternoon of golf in a 2-man scramble format.

Link: 2018 KAMM Preconference Golf Outing Final

12:30 pm Tee Time

Responsibilities of the Local Emergency Planning Committee (LEPC) 4-Hour Workshop
Presenters: Jessica Miller & Tiffany Sizemore, KYEM

The workshop will provide active LEPC members with an understanding of the state requirements for LEPC grant funding; including a review of the documentation and forms required to submit to the KY Emergency Response Commission (KERC).

Link: 2018 KAMM PreConference Responsibilities of the LEPC Workshop Final

1:00 – 5:00 pm

KAMM Field Trip: Golden Pond Planetarium & Observatory Elk & Bison Prairie Tour

We provide the transportation and you ride along to the Golden Pond Planetarium and tour through the loop to see Elk and Bison.

Link: 2018 KAMM Preconference Field Trip Final

12:30 pm

KAMM Trail Hike

Take a leisurely hike with us! You can stop after a mile or continue for another couple of miles. Great views and fun.

Link: 2018 KAMM PreConference Hike Final

4:30 – 6:00 pm

KAMM Silent Auction

Link: KAMM Silent Auction

3:00 – 9:00 pm

Exhibits Grand Opening and KAMM Welcome Fest

6:00 – 9:00 pm
Regional & Committee Meetings during the Conference

We emphasize the importance of KAMM’s *Committees and Regional meetings* because they are the best ways to get involved and help form the future of KAMM.

Four KAMM Regions

KAMM is divided into four regions. Find your region by linking to the 2017/18 KAMM regions. Want to know more about KAMM about Regions? Link to the 2018 KAMM Regional Training Introduction.

Regional Meetings

We will kick off Regional early morning sessions *Wednesday, September 19* where Regional representatives for Regions I and III on the KAMM Board will be chosen.

Regional Representative Elections

KAMM members in Regions I and III can nominate a Regional Representative by submitting a nomination. Nominees will have a chance to speak to their regional KAMM members prior to the election and then vote by secret ballot.

Being a Regional Representatives is a great way to be involved with the KAMM Board and to engage Regional members.


KAMM Committees

*Thursday* will feature KAMM Committee meetings bright and early. We need your input, and these meetings are the *best ways to get involved in KAMM*!

Participation in committees allows KAMM members to promote issues, challenges, and best practices that are important to them as well as an opportunity to network.

For More info: Visit the KAMM website for more information about KAMM’s committees and the conference committee reports at: [www.kymitigation.org/kamm-committees/](http://www.kymitigation.org/kamm-committees/)

For more information, Link to our Chair and Co-Chair contact info below or to the Committee type.

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<th>Committee</th>
<th>Chair &amp; Co-Chairs</th>
<th>Board Mentor</th>
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<tr>
<td>CRS Users Group</td>
<td>Christina Groves, Cindy Minter &amp;</td>
<td>Carey Johnson</td>
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<td>Lori Rafferty</td>
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<td>Flood Mitigation</td>
<td>Josh Human &amp; Sarah Taylor</td>
<td>Esther White</td>
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Lake Barkley State Resort Park Lodging
3500 State Park Rd. Cadiz, KY 42211

Our KAMM group rate ends August 30.

For more information, link to KAMM’s Lodging webpage

Barkley Lodge – $79.95
Barkley Lodge Suites $159.95
Little River Lodge – $72.72
2 Bedroom Cottages/Cabins $159.95

KAMM’s Silent Auction – 2018

KAMM is excited to announce our Second Silent Auction! Check out our Silence Auction Announcement. We will accept donations large or small. Last year, we had Kentucky products, gift baskets, coffee cups, rocks, soaps, photographs, and electronics. Get the idea?

Proceeds from the Silent Auction will go toward the annual “green” mitigation project that KAMM will be implementing in our host state parks. Donations are tax-deductible.

Silent Auction Setup: We will setup the Silent Auction Monday, September 17, so that folks can begin bidding immediately.

Be sure to check out the Silent Auction during registration or at the Exhibits Grand Opening and KAMM Welcome Fest. The Silent Auction will close Wednesday afternoon.

Donate to the Silent Auction: Link to the Silent Auction so you can donate an item.

Any questions about the silent auction, contact the KAMM Silent Auction Coordinator, Cindy Minter, cminter@campbellcountyky.org

2018 KAMM Mitigation Awards

KAMM is pleased to announce that it is receiving nominations for the 2018 KAMM Mitigation Awards! Do you know an individual, a representative of a community or agency, or a project that exemplifies mitigation and floodplain management best practices? If so, please nominate them for an award.

The nominee may be a successful strategy, project, or program or an individual who has made a positive impact within a community or an agency working to promote the benefits of hazard mitigation. We look forward to hearing from you! Link to the 2018 KAMM Award Nomination Announcement Final.

Submit nominations to KAMM no later than August 16, 2018.

Kentucky CRS Communities

As of May 2018, there are 29 Kentucky communities that participate in the CRS program.

Congratulations to City of Newport, Pendleton County, City of Falmouth, and the City of Butler for their 2018 Class Rating.

- Barren County - Class 9
- Bath County - Class 8
- Campbell County - Class 8
- City of Berea - Class 8
- City of Bowling Green - Class 7
- City of Butler (Class 7)
- City of Falmouth (Class 7)
- City of Frankfort - Class 8
- City of Grayson - Class 9
- City of Henderson - Class 8
- City of Melbourne - Class 8
- City of Newport (Class 9)
- City of Nicholasville - Class 8
- City of Owensboro - Class 8
- City of Paintsville - Class 9
- City of Paris - Class 9
- City of Pikeville - Class 9
- City of Radcliff - Class 8
- City of Richmond - Class 9
- City of Salt Lick - Class 9
- City of Silver Grove - Class 9
- City of Southgate - Class 9
- City of Woodlawn - Class 9
- Daviess County - Class 8
- Franklin County - Class 8
- Henderson County - Class 8
- Lexington-Fayette Urban County - Class 7
- Louisville-Jefferson County Metro Government - Class 3
- Madison County - Class 9
- Pendleton County (Class 9)
- Pike County - Class 9
- Rowan County - Class 9
- Warren County - Class 8
Natural Hazard Mitigation Saves: 2017 Interim Report

January 11, 2017

The National Institute of Building Sciences (NIBS) Multi-Hazard Mitigation Council (MMC) released an updated and expanded Natural Hazard Mitigation Saves: 2017 Interim Report.

In this new report, NIBS MMC examined 23 years of federal grants data to determine the benefits we derive from avoiding damages through activities funded with federal grants, and examined an expanded set of mitigation actions to determine the Benefit Cost Ratios (BCR) of building new structures beyond code requirements. The hazard categories covered in this report include: Riverine Flood, Hurricane Surge, Wind, Earthquake, and Wildland-Urban Interface Fire (WUI).

The new report uses two high-level Benefit Cost Ratios (BCRs) representing the benefits of mitigation. The report results indicate mitigation grants funded through select federal government agencies, on average, can save the nation $6 in future disaster costs, for every $1 spent on hazard mitigation. The report also demonstrates that, on average, investments in hazard mitigation measures that exceed provisions of the 2015 model building code can save the nation $4 for every $1 spent.

The report suggests a savings of $15.5 Billion from one year of building new construction beyond code requirements and a total of $158 Billion in savings from federally funded mitigation grant programs funded from 1993-2016.


2018 PDM and FMA Grant Program Funding Announcement

The Federal Emergency Management Agency (FEMA) is announcing that $395 million in funding is available through two Hazard Mitigation Assistance (HMA) grant programs: 1) Flood Mitigation Assistance (FMA) and 2) Pre-Disaster Mitigation (PDM). These competitive grant programs will open October 1, 2018, to assist state, local, tribal, and territorial governments in strengthening our nation’s ability to reduce disaster losses and protect life and property from future disaster damages.

PDM

The Pre-Disaster Mitigation (PDM) grant program provides funds on an annual basis for hazard mitigation planning and the implementation of mitigation projects prior to a disaster. The goal of the PDM grant program is to reduce overall risk to the population and structures, while at the same time reducing reliance on federal funding from actual disaster declarations. In FY18, $ 235 million is available for PDM grants, including $15 million set-aside for federally-recognized tribes.

Pre-Applications must be submitted in the eGrants system at https://portal.fema.gov by Friday, October 26. Applications will need to be complete and submitted in the eGrants system by Monday, December 17.

FMA

The Flood Mitigation Assistance (FMA) grant program provides funds on an annual basis for measures to reduce or eliminate risk of flood damage to buildings insured under the National Flood Insurance Program (NFIP). New in this application cycle, FEMA has set-aside $70 million of the $160 million in FMA grant funds for community flood mitigation proposals. The remainder of the Fiscal Year 2018 (FY18) grants will continue to focus on other FMA priorities.

Training webinars

Training webinars hosted by FEMA on the FMA and PDM Notice of Funding Opportunities (NOFO) and eGrants is available at: https://www.fema.gov/2018-nofo-webinar-schedule.
NFIP Bulletin Announces Rate Changes - Effective April 2018

The NFIP provides the opportunity for homeowners, renters, and businesses to purchase flood insurance for financial protection against flooding. FEMA continues to take important steps to comply with flood insurance reform legislation outlined in the Biggert-Waters Flood Insurance Reform Act of 2012 (BW-12) and the Homeowner Flood Insurance Affordability Act of 2014 (HFIAA).

One way to comply is by implementing the incremental rate increases needed to bring rates to full risk. Presently, nearly 80% of NFIP policyholders are minimally impacted by either law because they already paid a full-risk rate prior to the passage of BW-12 or HFIAA.

The NFIP is working with the Write Your Own (WYO) insurance companies to inform insurance agents and other stakeholders on the changes that will take effect next year on April 1, 2018. A couple of key changes being made to the program include updated Insurance Policy Premium Increases conforming to the premium rate caps established by BW-12 and HFIAA.

Premiums will increase from an average of 8% beginning April 1, 2018 (amount does not include the HFIAA surcharge or the Federal Policy Fee).


NFIP Flood Insurance Changes: October 2017, April 2018 and …January 2019

After the flurry of changes to the federal flood insurance program following the reform legislations of 2012 and 2014, FEMA has settled down on making changes in October, April and January. In the recent October 2017 update, we saw minimal changes (HFIAA Surcharge can now be pro-rata refunded if a policy is canceled. And except for mainly the Preferred Risk Policies, the Federal Policy Fee for contents-only policies was reduced to $25). The latest version of the NFIP Manual includes these changes.

The recently announced changes for April 2018 and January 2019 (for the Preferred Risk Policy and Newly Mapped Procedure annual changes) are pretty much in line with last year.

April 1, 2018 highlights: Rate Increases:

- Average premium increase is 6.9%
- Besides the pre-FIRM subsidized premiums that are congressionally-mandated to increase 25% (e.g., non-primary residences, non-residential businesses), pre-FIRM premiums increase only 5%
- Post-FIRM A Zones will see minimal to no increases; e.g., AE: 1%; AO or AH: 0%; Unnumbered Zone A: 2%
- Standard X Zone: 1%

Primary Residence Determination: FEMA recognizes a policyholder can have more than one primary residence, as each spouse could live more than 50% of the year at a separate residence.

Phase 2 of Re-underwriting the NFIP policy base: This is delayed/extended. In response to HFIAA, FEMA needs to send out letters to all policyholders to clearly communicate their risk. To do so, FEMA asked insurance companies and NFIP-Direct to underwrite basically all renewal policies, but post-FIRM policies starting October 2016. FEMA would then send a letter to each of those policyholders after the policy renewed. The Post-FIRM phase was to start this October, but it is now delayed due to the recent hurricanes and will start when April 2018 renewal notices begin going out (though some companies have already started it).

January 1, 2019 changes:

- Preferred Risk Policy (and eligible A99 and AR) premiums will increase 6%
- The Newly Mapped policy multiplier continues to be 15%

NOTE: With all of that published, FEMA just released an additional Bulletin that increases the ICC premium starting April 1, 2018. In some cases, the annual increase is $1, but in others, like pre-FIRM Zone A, we are seeing $5 and $10 increases. FEMA did not revise the overall rate increase percentages mentioned above so we don’t know the relative percentage impact.

Congressional Research Service Takes a Deep Look into Private Flood Insurance & the NFIP

July 2018

The report describes the current role of private insurers in U.S. flood insurance, and discusses barriers to expanding private sector involvement. The report considers potential effects of increased private sector involvement in the U.S. flood market, both for the NFIP and for consumers. Finally, the report outlines the pro-visions relevant to private flood insurance in the House and Senate NFIP reauthorization bills. Read the full report here.
FEMA Releases Affordability Framework for the NFIP

April 17, 2018

FEMA released an Affordability Framework for the NFIP, which for the first time provides data-driven analysis of the cost burden borne by flood insurance policyholders and potential policyholders, identifies the populations most burdened by the cost of flood insurance, and provides options for policymakers to consider to help close the flood insurance gap across the nation by reducing the cost burden of flood insurance.

Through the Biggert-Waters Flood Insurance Reform Act of 2012 and the Homeowner Flood Insurance Affordability Act of 2014, Congress directed FEMA to examine options to aid individuals so they could afford risk-based premiums under the NFIP, and to develop a framework to help policymakers consider how to provide targeted assistance to policyholders and potential policyholders.

In the Affordability Framework, FEMA proposes several options based on income and offers descriptive models of the cost of each option. The following tasks were considered:

- Understand the affordability of the current NFIP portfolio as a baseline to better understand the impact of changes going forward.
- Begin the process of building the affordability framework.
- Complete the process of building an affordability framework.

As part of FEMA’s 2018-2022 Strategic Plan, FEMA is working to close the insurance gap with the assistance of both public and private insurers. As the largest provider of flood insurance in the U. S., the NFIP is working to double the number of properties covered by flood insurance from the current 4 M to 8 M by 2023.

FEMA Announces the Release of the Annual Report of the Flood Insurance Advocate

April 2018

FEMA released the 2017 Annual Report of the Office of the Flood Insurance Advocate (OFIA). The report is intended to increase transparency, and to support the ongoing improvements to the NFIP with the goal of reducing its complexity. A copy of the Annual Report and Summary can be found on FEMA’s website at www.fema.gov/national-flood-insurance-program-flood-insurance-advocate. Or link to the Annual Report Executive Summary.

In 2017, the OFIA identified eight primary policyholder and property owner challenges, which include recommendations that present opportunities for reducing the complexity of FEMA:

- Challenges to customer communication during the claims process
- Effectiveness of map change communications
- Misunderstandings regarding Zone A
- Lack of premium reduction following a lower-level abandonment of a building
- Basement determination made at the time of loss
- Lack of refunds for duplicate coverage with private insurance
- Severe repetitive loss mitigation
- Lenders requiring coverage where a claim would not be paid

New to this year’s report is the identification of two external trends (affordability and the complexity of the NFIP) that may require legislative or funding action solutions to resolve. The issues identified in this report are based on the observations of the roughly 500 inquiries the Office received, about 25 percent more than last year’s total.

Updated Comprehensive Preparedness Guide Released

May 2018

FEMA released the updated Comprehensive Preparedness Guide (CPG) 201 to reflect the changes in methodology for the Threat and Hazard Identification and Risk Assessment (THIRA) and the Stakeholder Preparedness Review (SPR). The update includes both the THIRA and SPR because they are interconnected processes that, together, communities use to evaluate their preparedness.

The updated methodology goes into effect this year. The THIRA now includes standardized language to describe threat/hazard impacts and capability targets, and gives communities a structure to collect more specific, quantitative preparedness information while also providing important context. Through the updated SPR process, communities collect more detailed and actionable data on their current capabilities and identified gaps. They indicate their intended approaches for addressing those gaps and assess the impact of funding sources on building and sustaining capabilities, FEMA is taking a phased approach to implementation of the updated methodology, beginning in 2018. In 2018, respondents will only need to address the response, recovery, and cross-cutting core capabilities in their THIRA/SPR. In 2019, respondents will be required to address all five mission areas. Beginning in 2019, jurisdictions will only need to submit a THIRA to FEMA once every three years.

Join DSS-Wise Lite Webinar on August 30
August 1, 2018

DSS-WISE™ Lite is a web-based, automated, two-dimensional dam- and levee-break flood modeling and mapping capability developed by the National Center for Computational Hydroscience and Engineering (NCCHE), the University of Mississippi, with funding from the FEMA. It is accessible via DSS-WISE™ Web platform (https://dsswiseweb.ncche.olemiss.edu/), which provides access to a secure, web-based environment consisting of a graphical user interface (GUI) and a map server.

The system is available 24/7 and free of charge to registered users. The DSS-WISE™ Lite Prep Tool with real-time error checking allows the user to quickly set up and run dam and levee breach scenarios with resolutions from 20 ft. to 200 ft. in 12 intuitive easy steps. The data entry by the user is minimal. The preparation of the input data for the numerical model is fully automated.

The parallelized computational engine uses a state-of-the-art, shock capturing, upwind scheme to solve two-dimensional full dynamic shallow water equations efficiently and quickly to provide a rich set of results. DSS-WISE™ Lite has been successfully used as an operational modeling tool during numerous emergencies for emergency response planning. As the simulation is being computed, the user can monitor the propagation of the flood and the inundation extent on a secure web page.

Please join DSS-Wise Lite Webinar from your computer, tablet or smartphone.

https://global.gotomeeting.com/join/698618021
1 (571) 317-3122; Access Code: 698-618-021

The DSS-Wise Lite webinar will:
1) Provide an overview of the system components for DSS-WISE™ Web and GUI;
2) Demonstrate how to set up and run “reservoir-type” and “hydrograph-type” simulations;
3) Demonstrate how to view and use the results files provided;
4) Explain behind the scenes of automated input data preparation and its limitations;
5) Discuss typical users mistakes and how to avoid them; and
6) Present tips and techniques for dealing with challenging cases.

Recording will be available at https://dsswiseweb.ncche.olemiss.edu/documentation/

FEMA Launches New FloodSmart.gov
April 2018

FEMA launched a first phase of the new FloodSmart.gov website.

The updates to FloodSmart.gov incorporates social science and website usage research as well as best practices for a streamlined and customer-centric experience.

The next phase of the website launch will include insurance agent toolkits, social media templates, marketing tools, and flood map change toolkits.

April 2018

Accurate estimates of flood frequency and magnitude are a key component of any effective nationwide flood risk management and flood damage abatement program. In addition to accuracy, methods for estimating flood risk must be uniformly and consistently applied because management of the nation’s water and related land resources is a collaborative effort involving multiple actors, including most levels of government and the private sector.

Bulletin 17C’s Chapter B5 of book 4 (TM 4–B5) deals with flood flow frequency analysis at gaged sites using the Expected Moments Algorithm. The use of extreme flood data represented by interval and censored data types, including historical, paleoflood and botanical evidence, is emphasized.
KAMM’s newsletter is an edited compilation of mitigation-related stories and announcements submitted gleaned from listservs, press releases and news sources from throughout the U.S. KAMM chronicles the legislative, national and state news relevant to mitigation science and policy, regulations and best practices. The newsletter also links to new publications and resources available to mitigation professionals as well as events and training opportunities for those working in related fields.