



## Floodplain Management Working Group

Meeting Notes

Wednesday, Jan. 22, 2025

1:30pm – 3:30pm

**Contact:** Debbie Neddenriep, [debbie@cwsd.org](mailto:debbie@cwsd.org), 775-887-1260, or Kelly Nicholas, [kelly@cwsd.org](mailto:kelly@cwsd.org)

**Meeting Purpose:** The CRC Floodplain Management Working Group is a broad stakeholder group within the Carson River Watershed that works together to implement the suggested actions in the Regional CR Floodplain Management Plan (RFMP).

### Attendance

First	Last	Title	Acronym	Organization
Lyndsey	<a href="#">Boyer</a>	Open Space Manager	CCPROS	Carson City Parks, Rec. & Open Space
Kristina	<a href="#">Burnette</a>	Environmental Scientist	WEPD	Washoe Env. Protection Dept.
Kathy	<a href="#">Canfield</a>	Planning Manager, AICP	Storey	Storey County Planning Dept.
Louis	<a href="#">Cariola</a>	Senior Planner	Lyon	Lyon County Community Development
Katie	<a href="#">Clancey</a>	Civil Engineer, Special Studies Division	BOR	Bureau of Reclamation
Tom	<a href="#">Dallaire</a>	Director	Douglas	Douglas Co. Community Development
Steve	<a href="#">Endacott</a>	Emergency Manager	Fallon	City of Fallon
Sarah	<a href="#">Fichtner</a>	State Floodplain Mgr/NFIP Coordinator	NDWR	NV Division of Water Resources
Chris	<a href="#">Fritsen</a>	Branch Supervisor, Nonpoint Source	NDEP	NDEP Bureau of WQ Planning
Katie	<a href="#">Hay</a>	Stormwater Clerk	Douglas	Douglas County
Randy	<a href="#">Hines</a>	Public Works Director	ChPW	Churchill Co. PW, Planning & Building
Ed	<a href="#">James</a>	General Manager, PE	CWSD	Carson Water Subconservancy District
Lindsay	<a href="#">Marsh</a>	Water Resource Specialist 1	CWSD	Carson Water Subconservancy District
Rachel	<a href="#">Maurer</a>	Headwaters Coordinator	AWG	Alpine Watershed Group
Lisa	<a href="#">Nash</a>	Senior Planner	Lyon	Lyon County Community Development
Deborah	<a href="#">Neddenriep</a>	Water Resource Specialist 2, CFM	CWSD	Carson Water Subconservancy District
Kelly	<a href="#">Nicholas</a>	Senior Watershed Clerk	CWSD	Carson Water Subconservancy District
Karin	<a href="#">Peternel</a>	Stormwater Program Manager	CCPW	Carson City Public Works
Dean	<a href="#">Patterson</a>	Senior Planner	Church	Churchill County Public Works
Eric	<a href="#">Simmons</a>	Senior Engineer, CFM	FEMA	FEMA Region 9
Amanda	<a href="#">Singleton</a>	Assistant Project Manager	CCPW	Carson City Public Works
Christy	<a href="#">Sullivan</a>	District Clerk	LVCD	Lahontan Valley Conservation District
Courtney	<a href="#">Walker</a>	Stormwater Program Manager	DC	Douglas County Public Works
Jeff	<a href="#">Weagel</a>	Project Manager	JUB	J-U-B Engineers
Tom	<a href="#">Young</a>	Chief Hydraulic Engineer	NDOT	NV Department of Transportation

## **1. Nevada Division of Water Resources Update**

FEMA has been talking about releasing a new kind of SOP for their Community Assistance Visit (CAV) process; it's pushed out to summer 2026 because of FEMA staffing issues due to deployments. DWR has upcoming community assistance call visits this year in Churchill County and the City of Fallon. Sarah has not officially opened these yet, but that will happen this quarter before the CAP 23 grant closes; she'll send that acknowledge shortly. Once the new procedure is out, these will be called audits. Other states have refrained from the terminology because of negative connotations, and so she too will try to come up with something less intimidating. She will hold off on outreach until DWR staffing for the section chief for water planning and drought resiliency and floodplain mapping coordination positions are filled; CWSD should continue running job postings until further notice.

## **2. Emergency Management Updates**

There were no emergency manager updates. Debbie noted FEMA's Building Resilient Infrastructure and Communities (BRIC) NOFO went out.

## **3. ADMP Map Viewer**

### **a. Training videos are now embedded in User Guide**

The ADMP Map Viewer is a tool that has been requested by floodplain managers throughout the watershed. Michael Baker embedded training videos into the Map Viewer user guide. Go to the web hazard viewer, and then from there, click Web Access; there is a screen with the user guide even before you click "okay" and enter viewer permissions; it's in the first paragraph under the CWSD logo. The user guide is essentially a story map, and as a user scrolls each section has a how-to video. The videos reflect user input and questions from the last training. How-to pointers are followed by videos that explain each topic in full; videos are anywhere from 2-5 minutes and are more in-depth than previously. Questions also appear in the Q&A section.

### **b. Has anyone used it?**

Courtney has used it, but there aren't many studies in it; the map viewer will be more useful when those are entered. She finds it useful when a project is being proposed and if one has a drainage master plan in that area, you can see the flows, and it's different than what is in a FEMA-mapped floodplain. Since that has been put together, Douglas Co. has done several studies through CWSD and drainage and modeling for several other watersheds that can and should be incorporated. Uploading models seems like that is something a trained staff person can do, but she's not sure of the time or challenges involved.

The same goes for Carson City. Karin echoed those thoughts and had questions about whether adding data is covered in the initial \$50K funding request and then a per-year \$20K for three years. Debbie wants to ascertain that people will use it before asking the Finance Committee to fund it. To add data or an ADMP, there are two routes: pay Michael Baker directly (~\$6K), or work with your IT department to become trained on how to format the data, then submit it to MB (~\$1.2-\$1.5K). One speaker (Karin?) hasn't used it in their eight-month tenure and is trying to figure out when and if it should be used.

One thing to consider is that when regulating a development or a house, it's not regulated as per a study but to the FEMA flood map. There is a concern that going by models can lead to a false sense of security.

Storey County uses the maps in a non-regulatory way: When they're approached with a project, whether it's building something brand new or a home addition, they show maps of the property and where the water is going, with the goal of either placing structures outside of flows or having a backup plan for

moving water around the structure that doesn't affect neighboring properties. These conversations have been very helpful. This practice at the very beginning during the design phase helps clarify potential issues avoid difficulty for the Storey Co. residents who live outside a FEMA-regulated floodplain. Although the alluvial flooding that Storey Co. experiences can significantly change the drainage calculus, by and large it has been a successful outreach tool.

For this to happen in Carson City, its planning department would need to coordinate with public works and have a good understanding of the drainage information. When Carson City's drainage plan was created there was some language that had been drafted to shore up the floodplain ordinance. It's uncertain if that included alluvial fan drainage, if those title 15 ordinances passed, or if that language included any non-regulatory, base-level engineering ordinances.

Lyon Co. has drainage guidelines for new development in the county that were last updated in 2018. They are proposing a revision that will require developers using data sets from approved area drainage master plans to use the same modeling format so when they submit their hydrologic and hydraulic studies the county engineer has an opportunity to review them and compare them; this is for board approval in the coming months. This approach also assists them with larger projects that run through multiple properties: If one large warehouse comes in, they must use the ADMP data set to design both their stormwater management and its discharge into the next project. The next project likewise picks up the modeling that's been updated through the new project. There is no plan to turn them into regulatory documents but rather a starting point for advice on building a single-family home; subdivisions and large commercial projects that come in really utilize the data sets

Because of multiple studies and remapping in Carson City, as well as most residents not able to build in the floodplain, it may be cost-prohibitive to add those to the map viewer. However, if the City formatted the information this could be covered by a future CWSD funding request.

Because Douglas and Carson City have ESRI licenses it would be good for them to discuss, giving the consideration that by having all the counties participate in the map viewer then the smaller counties can advantage of economy of scale.

Karin forwarded an email to Courtney and Tom that answered questions about self- versus Michael Baker data uploading.

This map viewer is a separate one from the one Brenda has been working on, with much more information and different licensing. It was supposed to emulate a hazard viewer for Maricopa County in Arizona; the difference is that they have an extensive engineering staff who can upload and update studies themselves. This will be revisited to ascertain why watershed entities wanted a map viewer in the first place. The idea is that if the tool is built then each county can enter as much or as little information as they want.

One possible solution/workaround is for the (Carson City? Douglas?) GIS department to talk to Michael Baker to determine the data format, then that team can put these studies in a map and then share them, and then maybe it's just a link on (the CWSD map viewer?) to our information on their website.

**c. Support letters for the CWSD Finance Committee map viewer presentation are due 1/24/2025.**

#### **4. Grant Updates**

a. CWSD Finance Committee (Ed)

The Finance Committee meeting will probably be the end of February. He is still working on the data and funding requests are still coming in. The announcement will probably go out in early February as to the date.

b. FEMA

i. Floodplain Management Plan Update

Debbie has data from Carson City and Douglas, and needs data from Lyon. She has no new studies or projects for Churchill or Alpine Counties. So she's going with what she has and will be contacting Michael Baker to figure out how to move forward.

ii. Floodplain Management Association Quarterly Luncheons Update

The Floodplain Management Association luncheon was January 9. We had a full house with about 40 people. George Robison presented on the map provision for the Truckee River, and it was very well received; everybody had great questions, and the networking was amazing. We got some pretty good feedback from everybody. A few people on this call were there. If you any of you have comments about how it went, please let Lindsay know. The next one will be on April 10 at Ruvo Hall in Carson City, from 11 to 2, and will be the second part of the Tale of Two Watersheds, about the Carson Valley provision. Debbie hopes Tom can join them and chime in as she and Mitch Blum reprise their FMA Las Vegas presentation.

For July 10, Courtney has reserved the CVIC Hall in Minden. Tentatively Eric Simmons will come out; the physical map revision should be released around that time. Debbie will reach out to Eric to confirm; that meeting still needs to be fleshed out. Future meetings may feature emergency managers and/or the USGS.

iii. NDEM grant status: Drought Management, North Dayton Valley BCA

CWSD is currently working with the USGS looking at future water demands, mostly for municipalities but also for agricultural use, in the next 30 years and seeing what the impact is on both groundwater levels and surface flows when you start pumping those wells. There's a big push by the state now to look at groundwater impacts on surface flows, and so this is going to give us a handle on what kind of impacts there may be and what kind of mitigation we could do to protect water users both up- and downstream. We're hoping to have a preliminary workshop with the USGS on March 27. We hired Lumos to help gather what each water purveyor might see as their future needs, and if they needed new wells where those wells may be located because you must include those in the models. Lindsay worked on quite a bit of data input. The information has been given to the USGS. So USGS has all this data now, and they are putting it into their models and trying to get it running. It's taking them a little longer than they thought because it's a large model. There's one for Carson Valley, and then there's what they call the Middle Carson. Because of the amount of work the meeting was pushed back from February to March.

Lumos was hired to help CWSD with a North Dayton Valley scoping study received through emergency management funds. We had an Area Drainage Master Plan done in the North Dayton area, but they looked at regional projects, and all of them came in way too expensive to implement. We're looking at breaking them down into projects less than \$2 million that could be funded through FEMA. Because a 25 percent match is needed, we're looking at which projects have a benefit-cost analysis greater than one. Lindsay will be doing a lot of the environmental and BCA analysis for us in that study. CWSD hopes to apply for another grant to do something similar for the Stagecoach area. We've worked on a preliminary application that is into the State, and we need to follow up with Janell also. COMS1 projects are completed and contractors have been selected for

COMS2. COMS = community outreach and mitigation strategies. Those projects include the Gold Canyon Area Drainage Master Plan (JE Fuller is going to do that, along with local help), and then in South Silver Springs Wood Rogers will be doing its Area Drainage Master Plan. Those both go to contract during the February board meeting.

For the Douglas County Pine Nut and Sawmill Wash project, the lead selected was Shaker Gorla with Kimley Horn; it goes to contract in March. They're waiting for some data from the original modeling. As soon as they get that information, they can start putting a business plan together.

## 5. Watershed Program Updates

The NDEP 319 grant was wrapped up and all the invoicing is in.

- a. CRASP Web viewer – Phase 2 has been completed and several partners who do water-quality projects have been trained. We can be available for trainings with WEPD and NDEP when Brenda returns.
- b. Winter Newsletter – The newsletter went out in December and Taylor Allison got a shout-out for her article about an interdisciplinary approach to mitigating flood risk.
- c. RTCA Application – CWSD is applying for a Rivers, Trails and Conservation Assistance grant through the National Park Service to update the CRASP. This is not a monetary grant but for mediation and coordination and can be up to two years. CWSD seeks three letters of commitment from our partners to help with this update. The application deadline is Mar. 1. NDEP is interested in being involved.
- d. Watershed Forum Dates: Mar. 3 & 4. Use QR below or this link to complete a five-minute survey - <https://arcg.is/brPXa0>, which will help us decide topics and speakers to secure. Courtney, Lindsay and Kelly were all part of the Forum planning committee meeting earlier that morning. The theme is "Collaborative Resources in the Carson."

## 6. Round Robin Updates

**Deborah Neddenriep, CWSD** - She and Brenda were asked to do a presentation for the Natural Floodplain Functions Alliance, a collaborative group with the National Association of Wetland Managers and floodplain managers. In line with that, the Association of State Floodplain Managers and the National Association of Floodplain Management have been working on a series of workshops about integrated watershed management funded through the EPA and FEMA. They will host a workshop in Denver, Sep 16 and 17; we'll be having a meeting on Monday. They invite local and regional people to meet with folks from the EPA and FEMA regions. She's putting it out there because participation can elevate the CRW. She hopes people from the watershed, at the very least Brenda, can attend, but we might be asking you for names of folks to send and your contacts at FEMA and the EPA that you think it might be helpful to go to this workshop.

Tom is part of a panel that will be speaking on Feb 12 at the Nevada Emergency Preparedness Association summit. She was asked to put together a panel, and it's questions similar to the CRC panel last year. It's an opportunity for emergency managers to know about floodplain management and planning, and vice versa, in our counties. Tom, George Robison, Dwayne Smith of Washoe County and Lisa Nash from Lyon County will be participating.

**Ed James, CWSD** - The legislature is kicking in high gear, and there's a lot of bills. There's almost 1000 bill draft requests (BDRs) already, and there's probably about three dozen bills we're watching right now. So that's keeping us busy, and we're kind of all pulling double duty here, so working on a lot of different things.

**Tom Dallaire, Douglas** - It's really hectic; we've got a lot of studies out in the Floodplain. You guys are helping us out. We've got a lot of conferences coming up that we're preparing for.

**Courtney Walker, Douglas** – We got awarded one of our hazard mitigation grants for a project in Johnson Lane to acquire a parcel and design and construct a detention basin. We applied for it three years ago, and we just got it. So that's really cool. It's an implementation project, so that's exciting.

**Dean Patterson, Churchill** - Dean, here, not a whole lot to report. I guess we're still waiting to hear about the floodplain study. It's been quite a while now and curious how there's any recent progress. I don't know if we already talked about that at beginning but perhaps someone can chime in when they have a chance.

**Eric Simmons, FEMA** - I believe the last action on the floodplain study is FEMA requested additional data. Comments were sent in December, so I haven't heard anything after that.

**Ed James, CWSD** - There's a meeting on Jan. 31 at 9 am with all the parties to go over the comments and try to get us all on the same page. They're fairly elaborate comments, and it seems like some of them had been addressed earlier, so we're just having getting everyone together. Hopefully we can figure out how to move forward with the comments and get those resolved.

**Steve Endacott, Fallon** – No update. Ed answered his questions about the meeting next week. He'll pass along some interesting things City of Fallon found to answer one of those questions to Ed after the meeting to see if it's appropriate. Was going to talk offline about what's involved with the CAVs. Also, with the floodplain being in flux how does that affect information passed along to the public? Because it would be a dramatic difference if they can get this new map.

**Sarah, NDWR** – She will be in touch for now. This will be a community assistant visit but, for now, it's just opening it up and they won't need to close it right away. And this is her first time going through the process so she can't answer in-depth questions at this time; they'll be going through it together.

**Christy Sullivan, LVSCD – No updates**

**Kathy Canfield, Storey** - We're working with CWSD on that benefit cost analysis for the Mark Twain Lyon County neighborhoods there. We're also starting up working with CWSD in Lyon County on the Gold Hill master drainage plan. And then in December we finished our regular County Master Plan and got that adopted. That was a huge two-year endeavor to finish up. We're constantly looking for funding sources for projects to implement our Long Valley Creek floodplain issue projects that we have, and we're also looking at doing a drainage plan for the tri-center area, working with the drainages and things that are going on there, and working with NDOT. Jeff Weagel, I hope, if he's still on the line, he's been helping us with some of the stuff with Long Valley Creek. So, constant projects, and the legislature is starting up, so it's been super, super busy.

**Tom Young, NDOT** - We've been meeting with Storey County on those projects. Federal Highways has a program called the Bridge Scour program. It's been involved since the 80s, and we're required to update it. And so we're updating that program this year, and we were updating it for all bridges within the state, including locally-owned and some privately-owned bridges as well. With several hundred bridges across the state, NDOT may have some changes to the program. Scour is when you have a flood event; you might get erosion under a pier and have a failure. There's a whole monitoring program involved, a plan of corrective actions, etc. So you might see some communication from NDOT over the course of the next year.

**Deborah, CWSD** - Sounds great. One of the reasons we have been sending you all these area drainage master plans is we did have that meeting with Storey County about the Gold Canyon study, and we

realized we need to invite you to those meetings and wanted you to have that data available for all the work that we've done on Highways 341, 342, and 50, because they were saying that you may be updating some bridges in Storey County. So it would be good for you to have that base-level engineering data. Lumos just dropped off the last Virginia City Area Drainage Master Plan, which covers in detail Virginia City and Six-Mile Canyon; we'll be sending that along next.

**Tom** - We're using that data; we're using the FEMA work in conjunction with the area Master Plan data to design those projects.

**Deborah , CWSD** - CWSD asked NDOT to join the FEMA charter. Ed is working with Tom on details.

**Jeff Weagel, J-U-B** – No updates.

**Chris Fritsen, NDEP** - NDEP, nonpoint source pollution branch has two grant funding opportunities out; one of them is for planning. But the other GFO for Feb 4 is for on-the-ground implementation projects that reduce erosion, sediment, nonpoint source pollution and we'll be reviewing those proposals promptly. We are working on an update to the state management plan for nonpoint source pollution, which is needed every five years. We're specifically updating some of the watershed attributes or profiles. We'll be definitely interested in explicit incorporation of traditional ecological knowledge and BMPs TEK. The CRC should consider those in the CRASP updates and also at the Forum; it would be nice to get some tribal input on some best management practices that could be employed for water-quality improvements

NDEP has several ongoing projects: Dayton Valley Conservation District and Carson Valley Conservation District for streambank stabilization. He encourages protection work as opposed to just restoration work. He hopes to work with CWSD to find ways to get more water-quality information throughout the entire watershed that doesn't rely just on NDEP to do the assessments because of limited bandwidth is a little bit limited; an award to CWSD for that is pending. We've funded a satellite tool to help us.

We have a new branch called the bioassessment and monitoring branch. They're continually working with a statewide group to assess harmful algal blooms and HAB advisories for Lahontan Reservoir, which has been a concern for the last couple summers. NDEP will get a satellite tool online also to help assess the cyanobacterial blooms that are there. We are particularly interested in any projects aimed at reducing nitrogen loading to Lahontan Reservoir and any attempts to help mitigate that, not just the algal blooms.

A little while ago he attended a [Western Rivers Conservancy](#) meeting in Markleeville. They're proposing to purchase part of Parks Ranch and put that into a conservation agreement and then transfer the land ownership to probably a state entity; they're interested in doing that type of work in the Carson Valley as well. It could be a great partnership. Their byline is, sometimes to save a river, you have to buy it. They buy land parcels and portions of watersheds to put it into protections and then transfer it to state entities or other conservation entities. We're looking forward to the March Forum, but then also continuing the conversation on how to get the CRASP updated. [westernrivers.org](#)

**Eric Simmons, FEMA** – Not related to mapping, but one of the questions FEMA received in regarding the LA fires during a regional meeting was how other regions can help. One of the things they mentioned that I wasn't aware of is that every state has a compact with other states, and so maybe contacting your state emergency management to see if there's any need or how to help down there.

There's been a lot of help. They're still fighting fires, and it's still dry and windy, so it's still response in many ways. Responders from foreign countries, from other parts of California, other states.

As it transitions more to recovery the needs are huge. FEMA is part of that, that team to help state and local officials. There's a couple FEMA programs, but I don't know the details of other response and recovery, whether it's on the state level. Obviously it's billions of dollars of need.

**Lyndsey Boyer, CCPROS** – CC is working on the next phase of the Carson River Master Plan. They will host a stakeholder workshop on the second day of the watershed forum. More details will be forthcoming related to that, but if anyone has questions or wants to find out how to get more involved, let her know.

**Rachel Maurer, AWG** - The Markleeville Creek Restoration Project, NPD has been awarded a contract for the sewer improvement project pending approval by the State Revolving Fund of their final budget amendment. The floodplain restoration project secret amendment was approved by Alpine County Board of Supervisors in December. AWG continues to work on project permits. AWG should be getting the updated floodplain restoration project plan soon from Stantec, which will be nearly, but not quite, 100% design, and we're still hoping to go to construction this year on the floodplain restoration project, but timing is getting tight for Alpine County fitting the project in. Kimra is the lead on that one. Hope Valley project funding has been extended through June 2027 so while the main projects at site one and site two are complete, we're looking to do some adaptive management projects between site one and site two to use up some of that funding with the project goals still in mind. And we're going to be working with Waterways, who was the initial project engineers to get that scope of work created earlier this year. These are projects other than American Rivers. It's the site one bench that I did the talk at two years ago. And then the log curb site was originally American Rivers but recently was an AWG project starting in 2020.

The American Rivers project upstream in Faith Valley is completed. We're working on the final reporting that's due Feb 1. AWG received funding through state water board and EPA 319 for the West Fork Carson prioritization project, a geomorphological assessment and sediment budget of the West Fork Carson in the California portion, from headwaters to state line. Waterways was awarded the contract back in September, and they began work. We filed for a one-year extension, and we're because of how long the agreement took to get into place with state water board, we're expecting that so expecting the project to be done March 2026 not March 2025. And then for the East Fork Carson prioritization project, which is a similar project on the East Fork of the Carson River in California, we received notice from the state water board that we were funded. And so we're expecting to work on an agreement in the next few months and start that process on the East Fork, which is expected to run 2025-2027. And then a couple projects that should be implementation ready or ready to go after funding for implementation.

For outreach they have Eagles and Ag in February, and Trout in the Classroom at Bear Valley Elementary (steelhead eggs) in February and Diamond Valley Elementary (rainbow trout), Creek Day, river monitoring, Earth Day and a couple more environmental education lessons on the tables. And the Forest Health Community Working Group plans to do an Arbor Day event on Arbor Day, April 25.

**Katie Clancey, BOR** – No updates.

**Karin Peternel, CCPW** - CC is revising its hazard mitigation plan; that's going to be going on for the next nine months. They're creating a floodplain management or a flood management plan like Lyon County's. It was impressive, and they gave them approval to use theirs as a template. So she'll be working with Jon Bakkedahl on that, as well as the hazard mitigation plan. We're finishing our stormwater master plan that's going to help us prioritize projects. CC gets some funding through the stormwater utility, but it's not a lot, so they still must prioritize projects.

**Next Quarterly Meeting: April 23, 2025, 1:30-3:30 pm, CWSD and Zoom**



## Upcoming Events:

**[Sign up for Natural Floodplain Function Webinars \(free\)](#)**: On January 16, 2025, Debbie spoke about the Integrated Watershed Management Program and how it relates to floodplain management. The next webinar topic will be State Integrated Floodplain Management: **April 23, 2025, 3:00 – 4:00 pm EST/ 12- 1 pm PDT**

**February 12-13, 2025: [Nevada Emergency Preparedness Association Summit](#)**, Silver Legacy. On Feb. 12 a panel of floodplain managers will be discussing collaboration with emergency managers.

**March 3-4, 2025: Carson River Coalition Forum, Ruvo Hall, Carson City, “Collaborative Resources in the Carson.”**

**April 10, 2025: FMA Luncheon Seminar - Tale of Two Watersheds, Part 2 – Carson River PMR; 4/10/2025** at Ruvo Hall in Carson City: <https://floodplain.org/events/EventDetails.aspx?id=1942623&group=>

**April 22-23, 2025: FMA Post-Wildfire Watershed Mitigation Symposium – Chico, CA**

**May 18-25, 2025: [2025 ASFPM Conference](#)**, “Extraordinary Lessons Below Sea Level: 20 Years of Innovation,” in New Orleans looking back at Hurricane Katrina.

**July 17, 2025: FMA Extreme Precipitation Symposium - Davis, CA**

**Sept 2-5, 2025: [FMA Annual Conference](#)** - Sacramento, CA, at the Hyatt Regency

## Items of Interest:

### Scholarships Available: Pass this information on!

Floodplain Management Association, due 5/31/2025 (\$5k): Here’s a link to the [FMA College Scholarship](#).

ASFPM Foundation Scholarship, Due 2/1/2025 (\$20k): Here’s the link to scholarship: <https://www.asfpmfoundation.org/scholarships/student-paper>

The **American Society of Civil Engineers** has added 500-Year Flood Protection to its 7-22 Design Standard. ASCE has updated its design standards to better protect buildings and structures from severe flooding and sea level rise. A new supplement to ASCE/SEI 7-22 ties flood-hazard mitigation to the level of risk a structure presents to human life if it fails, and consequently expands the number of buildings that would need to withstand loads from a flood. Under the new supplement, all but the lowest hazard structures—such as barns and sheds—must now use the 500-year floodplain to determine flood loads. More info: <https://www.enr.com/articles/56559-asce-adds-500-year-flood-protection-to-7-22-design-standard>