

Nevada Floodplain Management News

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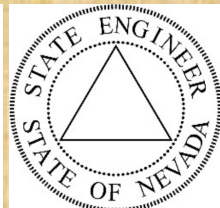
* SHORT SURVEY:

Are there any events or schools in your community where you would like us to participate at with flood awareness outreach this year?	Q 1
Any flood messaging advertisements that you would like during the month of November for Flood Awareness Week? (radio, newsprint, billboard)	Q 2
Would you like a Flood Awareness Proclamation specifically written for your city/county?	Q 3
Are there any workshops or training that we can offer to you or your staff?	Q 4
We are currently working on a NV Post-Wildfire Flood Guide for Residents. Would you like an assessment, mapping, or guide for your	Q 5
Lastly, is there anything else we can do to better assist your community?	Q 6

* Please use this link to respond to the [NDWR Short Survey](#)



STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES



The 2021 Carson Watershed Management Forum goes Virtual with 'Watershed Wednesdays'

The annual event, that typically runs two-full days, was changed to all virtual this year and was spaced out over five Wednesdays. Results were a resounding success with 3,700 videos viewed during the forum, the ability to delve further into the five forum themes, and best of all, if you missed it, you can catch these great presentations at your convenience!

With 51 presentations and 46 presenters, we lack the space here to highlight all of the videos, but invite you to explore.

WAYS to WATCH

YES— there's an App for that!

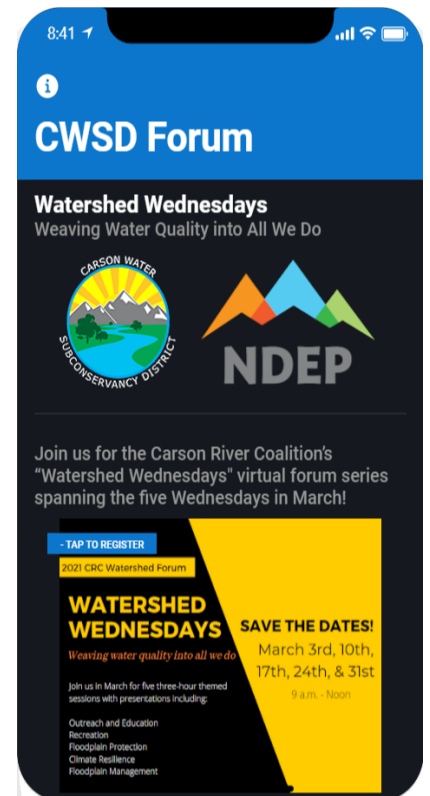
Just follow instructions on the right

- OR -

If you prefer to watch on your computer, simply click on any set playlist below



Just point your phone in 'camera mode' to the QR Code (just above) Your phone should read the code automatically and display a linked banner that will open the app for you.



Playlists on CWSD's YouTube Channel

[Education and Outreach - March 3rd](#)

[Recreation - March 10th](#)

[Floodplain Protection - March 17th](#)

[Climate Action - March 24th](#)

[Floodplain Management - March 31](#)



NEVADA SILVER JACKETS DAM EAP & TTX WORKSHOP GOES NATIONWIDE

By Brent Fetting, USACE Sacramento District

In January 2020, the U.S. Army Corps of Engineers Sacramento District (USACE) got the ball rolling on a project to support the Nevada Silver Jackets team and the Nevada Division of Water Resources Dam Safety Office (NDWR) in delivering workshops for Emergency Action Plans (EAPs) and tabletop exercises (TTXs). Three locations were identified for in-person workshops, but the arrival of COVID-19 changed, well, everything.

After shelter-in-place orders were enacted in mid-March, the team began discussing when things would return to “normal”. We expected that workshops and exercises would go on as planned in August of 2020, with visits to Elko, Reno-Sparks, and Clark County. However, it was clear by mid-May that the in-person workshop format wasn’t going to be realistic. Erin Warnock, Nevada’s State Floodplain Manager and Silver Jackets lead, knew that a virtual workshop could be successful despite challenges imposed by COVID-19. It was as simple as changing how to measure success given the new conditions, and maintaining enthusiasm to “practice for an emergency during an emergency”. With this optimism, the team began planning a virtual EAP workshop for August 2020.

Part of changing the measures for success meant changing the knowledge to be delivered. To help close the gap between dam safety, emergency operations, and floodplain management, we brought in experts from the private sector in addition to USACE and NDWR staff who had experienced emergencies in dam operations. With that growth came additional interest that expanded the reach of the workshop. By going virtual, the NV Silver Jackets team was able to leverage contacts nationwide, tapping into a broader community of professionals that included engineers, emergency managers, environmental specialists, and more. And while the workshop was being developed, some USACE TTX efforts illustrated the potential for virtual facilitation of these important exercises. Ms. Jenna Petersen from the Sacramento District’s Operations Division invited a few Silver Jackets team members to witness a couple of virtual exercises in action, in order to learn about considerations for facilitation in that distance learning environment.

On August 26, 2020, the Nevada Silver Jackets Dam Safety Emergency Action Plan and Tabletop Exercise Workshop was presented to over 100 individuals, some from as far as New York state, well beyond the expectations of the team. Maren Stoflet, National Weather Service Hydrologist from Kansas City, said “these types of workshops I think are excellent in our telework mode to keep partner interactions going...I'd love to see these sorts of workshops and engagements continue!”

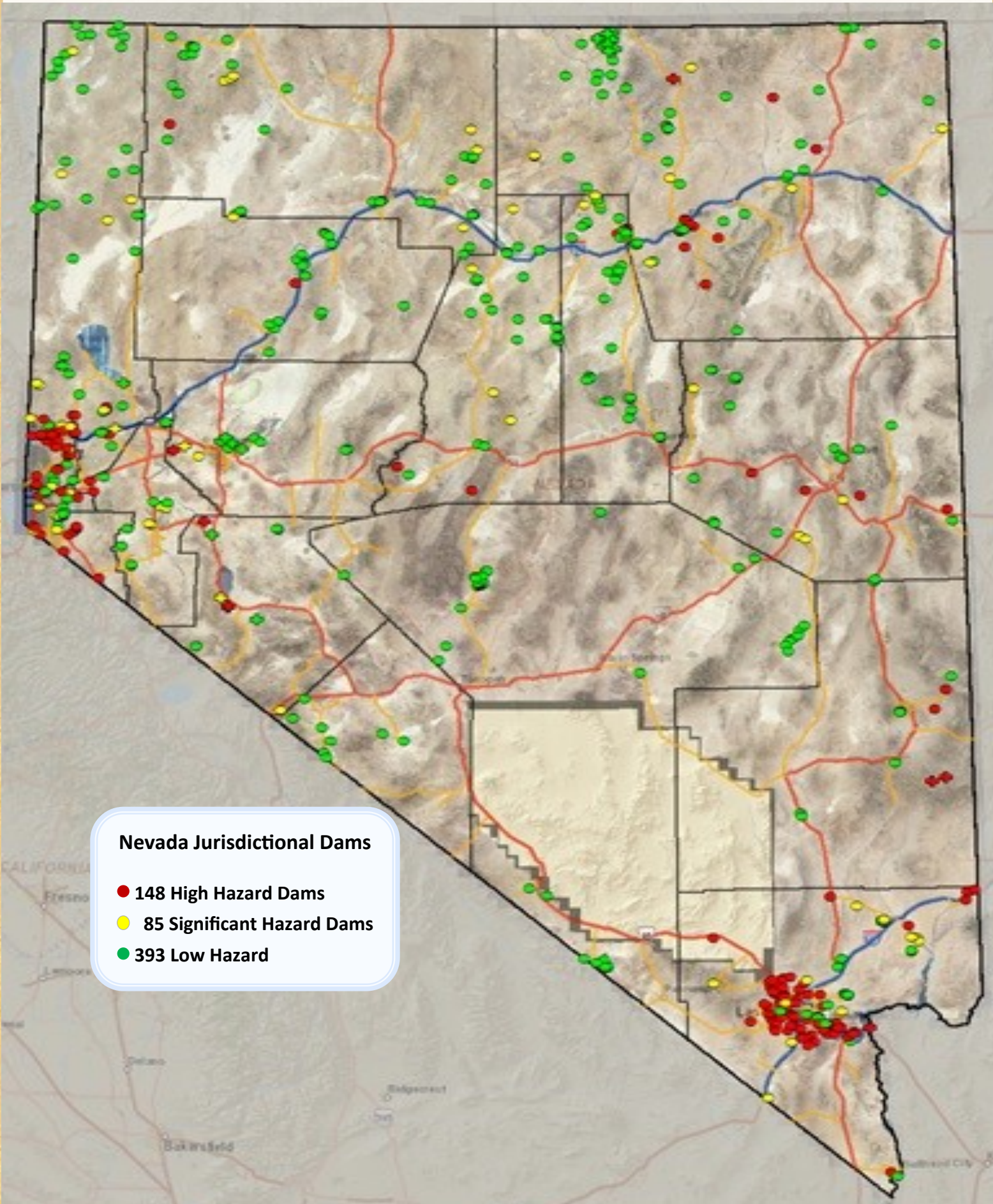
Fortunately, some of the knowledge shared during the workshop is available at www.nevadafloods.org, where a recording of the workshop can be downloaded. One of the beneficiaries of the recorded knowledge was from within USACE. “I benefited from listening in on [the] NV Dam Safety Workshop, especially the examples shared of dam breaches and improved awareness for potential emergencies,” said Susan Nall, USACE Colorado West Regulatory Section Chief. “There is a need for this team's knowledge.” The Nevada Silver Jackets team is now looking ahead to 2021, with plans to host a series of educational TTX webinars, develop a TTX to be conducted at a site selected by NDWR, and continue connecting different disciplines and offices to help share knowledge and build relationships across the State of Nevada.

Link to Dam Safety Virtual Workshop recording and materials (8/2020): nevadafloods.org/workshop.html

>> See Page 5 for details from the latest Workshop (4/21/2021):

[Emergency Action Plans \(EAP\) for Dam Safety and Flood Plain Management Professionals](#)

State of Nevada Jurisdictional Dams Hazard Classification



Emergency Action Plans (EAP) for Dam Safety and Flood Plain Management Professionals

Below is one of the slides from a very informative workshop on Emergency Action Plans for Nevada presented on April 21st, 2021. The entire presentation was recorded and available to view on the [Nevada Floods website](#).

Featured in this workshop: EAP Components, How to Develop and Improve EAPs, Roles During an Incident, Examples of NV Dams that have Overtopped, and Common Mistakes in EAPs to Avoid.



Adam Sullivan, P.E.
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Micheline Fairbank, JD
Deputy Administrator

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Deputy Administrator

Bradley Crowell
Director



Requirements for Dam EAPs

From the Workshop

- Require that dam owners have an EAP and Inundation Map created to FEMA P-64 Guidelines.
- Review submitted EAPs and Inundation Maps to ensure they are in accordance to the guidelines.
- Require that dam owners keep the plan and maps up to date.
- Require the dam owners to send their EAP to their County/City Emergency Managers, NWS, NDEM.
- Require notification when an EAP is implemented.
- Require dam owners to update their EAPs every 5 years.



Federal Guidelines for Dam Safety

Emergency Action Planning for Dams

FEMA 64 / July 2013



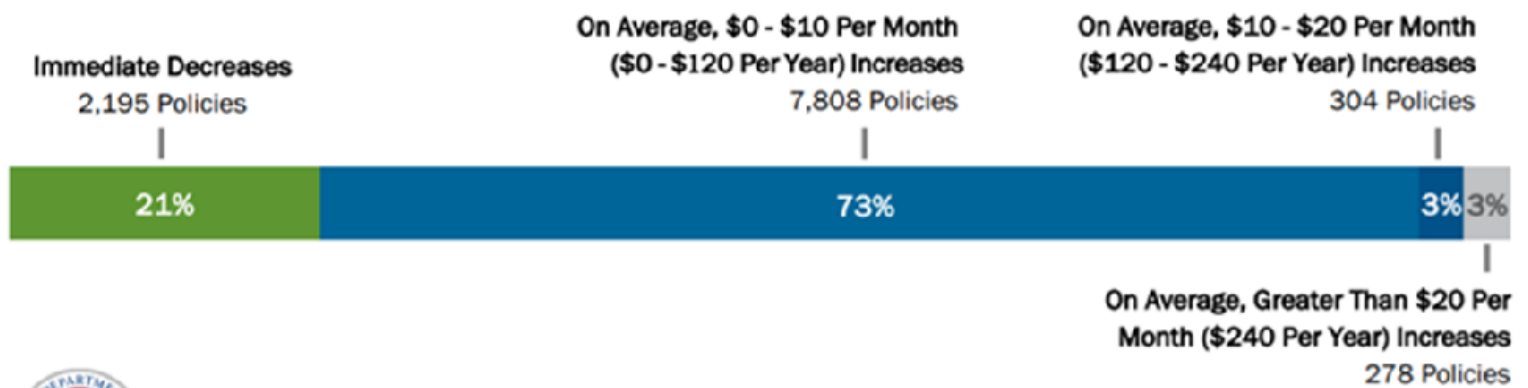
Photograph of the
21 Mile Dam failure that occurred on 8 Feb. 2017

FEMA's Risk Rating 2.0 in Nevada

On April 1st FEMA released guidance on expected changes to the National Flood Insurance Program (NFIP). Risk Rating 2.0 represents the first major overhaul of the insurance pricing methodology since the 1970s. Factors used in calculating a property's flood insurance premium will go beyond flood hazard zones, rating tables, and elevations. Added to the equation that reflects an individual property's flood insurance premiums would be what one would expect affect their risk, such as: the type of flooding and frequency, geographical variables, the elevation of the property relative to the flooding source, and building specifics. With FEMA's latest release we can see what price changes Nevada's 10,600 NFIP flood insurance policyholders are expected to see.

Bottomline for Nevada- 94% of current policyholders' premiums will either decrease or increase by \$10 or less per month under Risk Rating 2.0 (see graph below)

Risk Rating 2.0 in Nevada



[Risk Rating 2.0 profile for Nevada](#)

Where exactly these rates will increase or decrease remains to be seen, but FEMA will address cost equity in RR 2.0 by undoing a regressive cross-subsidy. This would decrease rates for lower value homes, while those with more expensive homes could see some increases.

Changes to policies are set to take place in two phases. Oct. 1, 2021 marks when existing policyholders eligible for renewal and new policies will be subject to the new rating methodology. All remaining policies renewing on or after April 1, 2022, will be subject to the new rates.

Premium rate increases will gradually go up, capped at 18% per year until the full-risk rate is realized.

If you have any questions or concerns, please reach out to Erin Warnock at the Nevada Division of Water Resources. Erin Warnock, ewarnock@water.nv.gov

The *Emerging Professionals* were formed with the goal of assisting individuals who are relatively new to their Floodplain Management professions and associated fields.

Recent webinars:

- ◆ 40 years of wisdom by George Booth
- ◆ Stubbornness, Persistence and Good Advice: The Making of a Great Career
- ◆ The Project Manager as a Leader
- ◆ Chat with Elizabeth Bryson
- ◆ Task (and time!) Management
- ◆ General Geotech and How to be a Balanced Engineer
- ◆ Working Together to Reduce Flood Risk: Tribal Partnership Opportunities

If you or someone you know would like to join these webinars and meetings please contact Carlos Rendo at crendo@water.nv.gov

This group was formed under the Floodplain Management Association (FMA). No membership necessary to participate. The FMA's Mission is to improve flood safety and maximize floodplain resources through effective dialogue, collaboration, education, legislation, and policy.

Floodplain Management Association ***Emerging Professionals***

Striving to engage and support emerging Floodplain Management professionals, as well as students and academia in related fields of study, through mentorship, networking, and training.





State of Nevada Division of Water Resources



Upcoming Training and Conference Announcements

May 10 - 14 | Association of State Floodplain Managers (ASFMP) Annual Conference

Sept. 7 - 10 | Floodplain Management Association (FMA) Annual Conference

Nov. 14 - 20 | Nevada Flood Awareness Week

***The next issue of the Nevada Floodplain Management News will feature:
A Collection of useful Video Resources, Better Know a Watershed,
And new Flood Education materials for your Community***

**Nevada Floodplain Management News is a Publication of
the Nevada Floodplain Management Program
To Submit New Content, or if you have Questions or Comments?**

If you have any questions or comments regarding the content of this newsletter or are interested in contributing articles to future Nevada Floodplain Management Bulletin, please contact Nevada Division of Water Resources, Public Outreach Manager: Carlos Rendo at crendo@water.nv.gov

