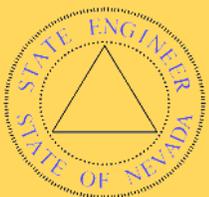




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2018 FMA Annual Conference in Reno, NV:

"Sustainability in the Face of Change"

By Bunny Bishop, State Floodplain Manager, Nevada Division of Water Resources

In September, the Floodplain Management Association (FMA) Annual Conference was held in Reno, NV. I was honored to have been a part of the planning for this year's conference as the state co-chair. During and after the event, I heard many comments about how great it was this year and received positive feedback about the planning efforts. The FMA conference provides a valuable opportunity for our local, state, regional, and federal partners to come together and discuss important floodplain management issues. The panels, workshops, and sessions provide insights into what is happening in floodplain management, so we can all stay updated on current events.

The theme for this year's conference was Sustainability in the Face of Change. But what does that mean? For me personally, it means making our communities more resilient by assisting them in making informed decisions about floodplain management. When the next disaster strikes, resilient communities can recover faster and have less damage because they know their flood risk and have mitigated that risk through flood insurance, mitigation projects, and good floodplain management decisions. That is sustainability to me, but what about in the face of change? What change you might ask? The changes I see are more frequent extreme precipitation events. This, on top of an almost year-round fire season, makes flood after fire a very real concern in Nevada and our neighboring states. These changes make it even more important that communities know their risks and mitigate those risks.

A 2017 report from the National Institute of Building Science states for every dollar spent on hazard mitigation, it saves six dollars in future disaster assistance. Investing in mitigation is how we can achieve sustainability in the face of change. This notion is supported by FEMA's Moonshot of increasing mitigation spending fourfold. As a nation, and as a region, we have to learn from years like 2017, which was one of the most costly natural disaster years the U.S. has ever seen. We need to reach out to our communities and our politicians to help them understand how important mitigation and good floodplain management are to a sustainable future.



- Read on in the newsletter for more details about FEMA's Moonshots, pg. 6

Workshop: Introduction to the CRS

We are excited to announce that on October 30th and 31st there will be a Community Rating System (CRS) workshop coming to Carson City. It is the very first workshop held for a new CRS training pilot program being launched nationwide to support NFIP Communities. The two-day workshop will be instructed/moderated by Brian Trushinski, FEMA Region IX CRS Coordinator, and Amanda Gowans, Insurance Services Office (ISO)/CRS Specialist. Content will cover each series that comprises the CRS.

Anyone who has had the opportunity to hear Brian knows he can give great tutorials for some of the most complicated elements in the CRS.

Registrations will be accepted until class capacity is reached!

Registration form at:
NevadaFloods.org



Community Rating System Workshop "INTRODUCTION TO THE COMMUNITY RATING SYSTEM (CRS)"

October 30 & 31, 2018
8:30 am – 4:30 pm
Carson City Sheriff's Office: Ormsby Room
911 East Musser Street
Carson City, Nevada 89701

CFM Continuing Education Credits: 12.0

Sponsored by: Nevada Division of Water Resources

Nevada Division of Water Resources Floodplain Management,

"Celebrating Nevada's commitment to community and public safety"

Regional Flood Control District Master Planning

By Andrew Trelease, P.E., CFM, Clark County Regional Flood Control District

The Regional Flood Control District (District) in Clark County, Nevada is wrapping up two major flood control Master Plan Updates (MPUs) this fall, the Master Plan Update for the Las Vegas Valley and the Master Plan Update for Boulder City. The District updates their master plans every five years to add new information relevant to the plan, assess the progress toward fulfillment of the plan, identify obstacles to completion of the plan, and recommend amendments to the plan resulting from growth and development.

The master plans include the preliminary location, alignment, size, type, and cost of all proposed District facilities in Clark County, and provides an inventory of all existing facilities. The estimated costs of proposed facilities are compared to estimated District revenues to create a 10-year plan for design and construction funding. The master plan computer models updated in the plans are also used as a launching point for engineers during the design of the structures.

With the help and expertise of Atkins North America, the District hopes to adopt master plan updates for the Las Vegas Valley and Boulder City by the end of 2018. During the development of these plans, Atkins created innovative tools using GIS to estimate the size and cost of planned facilities. These tools greatly reduced the time and effort needed to complete the update resulting in significant savings to the taxpayers. The District also commissioned Atkins to perform computer model verification analyses based on comparisons with real storm data gathered from District rain gauges and adjusted with radar data from the National Weather Service.

The District learned the new computer models to be used in the Master Plans are generally conservative and are reasonably accurate in predicting actual runoff rates and volume of water generated in a storm event.



“These tools greatly reduced the time and effort needed to complete the update, resulting in significant savings to the taxpayers.”

The District’s Master Plans are available online at www.ccrfcd.org

Douglas County's New Stormwater Maintenance Program

By Courtney Walker, Stormwater Program Manager, Douglas County



After decades of discussing the need for a Douglas County-wide Stormwater Maintenance Program, the Board of County Commissioners voted to approve a Stormwater Management Plan for Operations and Maintenance along with an Operating Budget of \$1.261 million at the August 23, 2018 board meeting.

Guidelines for inspection, operation and maintenance of public stormwater facilities within Douglas County are outlined in the Operations and Maintenance Plan. Appropriate operation and maintenance activities ensure that stormwater infrastructure will continue to function properly, yield expected water quality and environmental benefits, protect public safety, fulfill permit requirements, and protect the community's financial investment. The programs and permit requirements Douglas County must fulfill are related to the Lake Tahoe Total Maximum Daily Load (Lake Tahoe TMDL), the State of Nevada Small Municipal Separate Storm Sewer System (MS4) Water Quality Permit, and the Federal Emergency Management Agency's Community Rating System.

"I am excited about the opportunity to put together a more comprehensive stormwater program for Douglas County," said Courtney Walker, Stormwater Program Manager. "This will enable us to provide improved service to the residents of Douglas County as well as meet state and federal permit requirements."

This program will provide the addition of one full-time stormwater maintenance supervisor and four full-time stormwater operators in the Public Works department. Residents can likely expect to see stormwater crews out and about next year cleaning County-owned culverts, ditches, and detention basins, getting maintenance up to speed.

For additional information contact Courtney Walker, Douglas County Stormwater Program Manager, at (775) 782-6215 or cwalker@douglasnv.us.





Celebrating 50 Years of the National Flood Insurance Program (1968-2018)

Quick Facts:

- The NFIP assists local governments, lowering the built environment's exposure to flood, which saves the Nation more than \$1.6 billion per year in avoided flood losses.
- The NFIP paid over \$64 billion in claims during the last 50 years, including over \$44.4 million in claims in Nevada since 1978.
- FEMA has dedicated nearly \$4 billion in flood grants, buying out or elevating nearly 53,000 properties.

Visit www.FloodSmart.gov for more information.

August 1, 2018, commemorated the 50th anniversary of the National Flood Insurance Act of 1968. Since then, the program has aimed to reduce the impact of flooding on private and public structures by providing affordable insurance to property owners, renters and businesses, as well as by encouraging communities to adopt and enforce floodplain management regulations.

The Moonshots

By Nicole Goehring, Nevada Division of Water Resources

FEMA's 2018-2022 Strategic Plan is defined by three goals that will help it meet its vision of "a prepared and resilient Nation":

1. Build a culture of preparedness
2. Ready the nation for catastrophic disasters
3. Reduce the complexity of FEMA

FEMA's Federal Insurance and Mitigation Administration (FIMA), which manages the National Flood Insurance Program (NFIP) as well as risk management and mitigation efforts, has created two "moonshots", to be achieved by 2022, that directly serve the first goal.

One moonshot is to quadruple the investment in mitigation. For every \$1 the federal government invests in mitigation, an average of \$6 is saved in future spending, according to the National Institute of Building Sciences' 2017 study. These numbers show that mitigation works. FEMA advocates that the starting point for pre-disaster mitigation and resilience is strong building codes. Funding challenges, however, can hamper further mitigation efforts. For communities seeking additional mitigation funding, FEMA will work with Con-



gress to increase spending on risk reduction and pre-disaster mitigation. Flexibility and holistic approaches that can be molded to the needs of a diversity of communities will be emphasized.

The second moonshot is to double flood insurance coverage. Those who carry a flood insurance policy recover faster and more fully after a flood event. Federal assistance for the uninsured is very limited. FEMA believes that because almost any property can flood, almost every property should be covered by a flood insurance policy, whether through the NFIP or a private insurance policy. FEMA's steps toward meeting the flood insurance moonshot include creating a simpler, customer-focused insurance program. Additionally, flood communication products will emphasize clear and accurate descriptions of flood risk. Closing the insurance gap will require involvement from all levels of government and the private sector. To help facilitate community outreach communication encouraging flood insurance purchases, FEMA has developed a Moonshot Starter Kit, available for download [here](#).

Recent Reforms to Know About

By Carlos Rendo, Nevada Division of Water Resources

Of the recent changes to the National Flood Insurance Program (NFIP), one of the most important relates to Premium Rate Increases and Surcharges.

For policies issued on or after April 1, 2018, premiums will increase from an estimated average of \$866 per policy to \$935, for an average increase of 8 percent. This is part of FEMA’s broader, continuing efforts to align premiums with risk-based pricing.

FEMA has a [seven-minute-long video](#) that covers the Premium Rate Increases, along with three other helpful videos that cover the April 2018 NFIP Program Changes

Additional changes for the NFIP become effective January 1, 2019. These include premium changes for Preferred Risk Policies (PRPs) and Newly Mapped procedure policies. Stay tuned for the next newsletter, in which both of these will be covered.

For a summary of both April 2018 and January 2019 changes, check out [this publication](#) from Aon National Flood Services.

For a comprehensive list of changes please see:

[FEMA April 2018 NFIP Flood insurance Manual Change Package](#)

NEVADA FLOODS.
Are you prepared?

Visit NevadaFloods.org

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Nevada Department of CONSERVATION & NATURAL RESOURCES

Flood Education & Outreach

Outreach up!

Thanks to our wonderfully dedicated partners, the Nevada Division of Water Resources (NDWR) has expanded its flood awareness, preparedness, and safety activities throughout the year. NDWR has also increased its direct media and social media coverage, along with face-to-face outreach efforts, bringing flood awareness to over 2,000 adults and children in the last six months. Considering the devastating floods of 2017, ramping up our outreach efforts has been well received by the many Nevada residents we have spoken with. Nevadans have some gripping stories to tell about their own recent or past experiences with flooding.

We would like to thank our partners in outreach, listed below, for all their hard work and tireless efforts in spreading flood awareness at public events and in classrooms for our Nevada communities.

Federal Emergency Management Agency
Carson Water Subconservancy District
City of Elko
Clark County Regional Flood Control District
Douglas County Stormwater Program
National Weather Service, Reno and Elko Offices
River Wranglers
US Army Corp of Engineers
Nevada Division of Emergency Management

A special thanks to the members of the Flood Awareness Week (FAW) Core Team for all of their time and commitment to flood awareness outreach in Nevada.



NDWR staff in action at outreach and education events in 2018.



A Proclamation by the Governor

WHEREAS, flooding creates emergencies of great concern to the State of Nevada, with imminent threat to life and property, as well as the potential for hundreds of millions of dollars in damage to homes, businesses and infrastructure; and

WHEREAS, since 1955, Nevada has received 18 presidential disaster declarations for flooding, the most recent of which involved the counties of Douglas, including the Washoe Tribe of Nevada and California, Elko, including the South Fork Band of Te-Moak Tribe of Western Shoshone, Humboldt, Washoe and Carson City; and

WHEREAS, Nevadans are able to reduce their risk by taking actions to prepare for floods which will also help to make all communities safer and more damage resistant; and

WHEREAS, Nevada communities are able to reduce flood damage through floodplain management; and

WHEREAS, the Nevada Flood Awareness Committee was formed to raise awareness and provide information about floods, flood preparedness and flood insurance;

NOW, THEREFORE, I, BRIAN SANDOVAL, GOVERNOR OF THE STATE OF NEVADA, do hereby proclaim the week of November 4-10, 2018 as

FLOOD AWARENESS WEEK IN NEVADA



In Witness Whereof, I have hereunto set my hand and caused the Great Seal of the State of Nevada to be affixed at the State Capitol in Carson City, this 16th day of October, 2018.

By the Governor: _____ Governor

Barbara K. Cogan
Secretary of State

By _____ Deputy



Upcoming Events

- ◆ October 30-31, 2018 — Community Rating System Workshop, Carson City
- ◆ November 4-10, 2018 — Nevada Flood Awareness Week (FAW)
- ◆ November 4, 2018 — FAW Kick-off event at Meadowood Mall, Reno
- ◆ November 6, 2018 — FAW Douglas County Community Center, Gardnerville

In the next Nevada Floodplain Management Newsletter, look for articles on:

- Results from the 2018 Washoe County Ballot Initiative (WC – 1) on the Truckee River Flood Protection Project
- The recently passed Disaster Recovery Reform Act of 2018, and what it means for your community ([FAA Reauthorization Act of 2018](#))
- Additional changes to the NFIP (effective January 1, 2019) for Preferred Risk Policies (PRPs) and Newly Mapped procedure policies

Nevada Floodplain Management News is a Publication of the Nevada Floodplain Management Program.

The Nevada Floodplain Management Program was established in the Department of Conservation and Natural Resources, Division of Water Planning by the 1997 Nevada State Legislature after the need for a statewide flood management program became apparent when damages from the 1997 New Years Flood on the Truckee River were assessed.

In the Spring of 2001, the Nevada Floodplain Management Program was transferred within the Department of Conservation and Natural Resources and was later confirmed by Governor’s Executive Order, dated April 10, 2003, to its current residence within the Division of Water Resources (NDWR) under the direction of the Nevada State Engineer.



Questions?

If you have any questions regarding the content of this newsletter or are interested in contributing articles to future issues, please contact NDWR’s Public Outreach Manager, Carlos Rendo at crendo@water.nv.gov