

ANNUAL REPORT
on the
MITIGATION ACTIONS
in the
SACRAMENTO COUNTY
LOCAL HAZARD MITIGATION PLAN
Dated December 2016
(AND FLOODPLAIN MANAGEMENT PLAN)

**Adopted County Board of Supervisors on July 11, 2017, Resolution 2017-0502
and the Plan was approved by FEMA August 18, 2017**

Contact:
George Booth (916)874-6484
County of Sacramento
Department of Water Resources

July 2020

The Local Hazard Mitigation Plan is posted at www.stormready.org

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OVERVIEW

Federal law requires every city and county to have a plan describing the various natural hazards that might impose a risk to life and property. The plans are prepared with public volunteers and staff who consider ways to mitigate the associated risk. The FEMA Community Rating System requires this annual report.

The County of Sacramento developed the initial Hazard Mitigation Plan in 2005. The plans are effective for five-years. The 2016 plan is the second update. The plans are prepared and updated pursuant to the requirements of the Disaster Mitigation Act of 2000 (Public Law 106-390 and 44 CFR §201.6). The 2016 Local Hazard Mitigation Plan is posted on the Internet at www.stormready.org.

A public planning committee, as established pursuant to Board of Supervisors Resolution 2016-0091, February 9, 2016, collaborated to prepare the Hazard Mitigation Plan. The Local Hazard Mitigation Plan, dated December 2016 was adopted on July 11, 2017 by the Board of Supervisors (Resolution 2017-0502) and the Sacramento County Water Agency (Resolution WA-2959). The plan was approved by FEMA on June 12, 2017 and is valid for the subsequent five years.

Annually, a report is prepared and presented to the public describing progress on the hazard mitigation measures in the plan, as required by the FEMA National Flood Insurance Program Community Rating System Activity 510. This annual report will be posted online under the Local Hazard Mitigation Plan page at www.stormready.org.

The 5-year plan allows each participating city, district or agency to prioritize mitigation measures, and to amend actions on the activities. The next update to the Hazard Mitigation Plan will begin in late 2020 and finish the end of 2021 at which time activities are added or deleted.

PLAN PARTICIPANTS

The Sacramento County Local Hazard Mitigation Plan (LHMP) is a multi-jurisdictional plan that geographically covers the entire area within Sacramento County's jurisdictional boundaries (hereinafter referred to as the planning area). Numerous members of the public participated in the planning effort. Twenty-nine participating cities and districts adopted the 2016 Local Hazard Mitigation Plan.

1. Sacramento County
2. Sacramento County Water Agency

3. Sacramento Area Sewer District
4. Sacramento Metro Fire District
5. Sacramento Regional County Sanitation District
6. City of Citrus Heights
7. City of Elk Grove
8. City of Folsom
9. City of Galt
10. City of Isleton
11. City of Rancho Cordova
12. City of Sacramento
13. Southgate Recreation and Park District
14. Twin Rivers School District
15. Los Rios Community College District
16. Cosumnes Community Services District Fire Department
17. Grand Island RD 3
18. Sherman Island RD 341
19. Libby McNeil RD369
20. Pierson District RD551
21. Walnut Grove east RD554
22. Upper Andrus Island RD556
23. Tyler Island RD563
24. Cosumnes River RD800
25. Natomas RD1000
26. Glanville Tract RD1002
27. Twitchell Island RD1601
28. Dead Horse Island RD2111
29. Brannan Andrus Levee Maintenance District (RD 317, 407, 2067)

HAZARD MITIGATION PLANNING

Hazard mitigation planning is focused on natural hazards to which Sacramento County might be subjected. The federal Disaster Mitigation Act of 2000 seeks to encourage communities to understand hazards and to reduce risk. The first Sacramento County Local Hazard Mitigation Plan was dated December 2004. The Disaster Mitigation Act requires periodic updates to the local hazard mitigation plan to maintain eligibility for pre-disaster mitigation grant funds and some post-disaster public assistance through FEMA. The first update was dated 2011, and the current Plan is dated December 2016.

The planning includes community outreach and discussion about natural hazards, risk, and mitigation activities.

The complete Sacramento County Local Hazard Mitigation Plan is posted at www.stormready.org.

The 2016 LHMP was an inclusive effort inviting participation from the public, all seven cities within Sacramento County many agencies and districts. **Exhibit A** is a final notice from FEMA listing all of the jurisdictions who adopted the plan.

As a requirement of the Disaster Mitigation Act (Stafford Act) and the FEMA Community Rating System, this annual report highlights the progress made in the implementation of the mitigation goals and strategies outlined in Sections 5 of the plan.

HELPFUL DEFINITIONS

Community Rating System (CRS) -The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three main goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood hazards and flood insurance.

County, as used herein, is the unincorporated Sacramento County.

FEMA is the Federal Emergency Management Agency

Floodplain is an area mapped or otherwise determined as being subject to inundation by ponding or flowing water in a storm event that has a statistical probability equal to or greater than 1% per year (also known as the 100-year floodplain). Other floodplains include 0.5% per year (200-year) and 0.2% per year (500-year).

Floodplain Manager is the Director of the Sacramento County Department of Water Resources.

Repetitive Loss Area has one or more structures having experienced two or more floods in a ten-year period, with flood claims exceeding \$1,000 in each instance.

COMMUNITY RATING SYSTEM

The County is a member in good standing with the FEMA National Flood Insurance Program Community Rating System (CRS), administered by Insurance Services Office, since 1992. Participation in CRS is voluntary. Of the 22,000 communities participating in the National Flood Insurance Program, nationwide, there are 1444 participating in the Community Rating System. CRS is a reward-based program to encourage communities to do a better job of managing floodplains and informing the public of flood hazard risk and mitigation measures.

Due to the County's CRS Class 2 rating, owners of structures in FEMA special flood hazard area receive up to a 40% discount on flood insurance premiums, saving hundreds of dollars on flood insurance premiums is significant to households. This totals more than \$1 million in annual savings to our constituents.

It is estimated that Water Resources spends \$70,000, on average each year, doing CRS record keeping. The CRS program is a system of measurements reviewed every three years and affirmed annually, including:

- Elevation certificates (used to accurately describe the flood risk on a structure by structure basis)
- Map information (keeping flood hazard information and making it available to the public)
- Outreach projects (regular flood hazard and mitigation reminders to the public)
- Hazard disclosure (helping real estate professionals, buyers, and sellers to recognize the flood hazards)
- Flood protection information (provide mitigation and safety information to the public)
- Additional flood data (improving upon the FEMA regulatory maps)
- Open space preservation (the County zoning maintains the expansive south county floodplain as predominately agricultural land use)
- Higher regulatory standards (credits standards such as requiring buildings to be safely above flood hazards 'freeboard')
- Flood data management (recognition of long-standing effort to map high water and local flood hazards)
- Storm water management (credit for applying local, state, and federal storm water pollution reduction requirements)

- Repetitive loss (annual outreach stressing flood insurance and mitigation measures to those who have flooded multiple times)
- Floodplain management planning (credit for annually updating and publishing this report)
- Acquisition and relocation (recognizes efforts to mitigate the most flood-prone structures)
- Flood protection (recognizes efforts to mitigate flood hazard on a property by property basis)
- Drainage system maintenance (reviews ongoing efforts to maintain and improve the storm drainage systems)
- Flood warning program (this is an area where the County can obtain more credit in the future)

*Reference CRS <https://www.fema.gov> search Community Rating System
The complete CRS Manual is available at www.crsresources.org

ANNUAL REPORT REQUIREMENTS

This Annual Report includes:

- A description of how the evaluation report was prepared and how it is submitted to the governing body, released to the media, and made available to the public;
- How the reader can obtain a copy of the Countywide Natural Disaster Mitigation Plan;
- A review of each recommendation or action item in the action plan or area analysis report, including a statement on how much was accomplished during the previous year;
- A discussion of why any objectives were not reached or why implementation is behind schedule; and
- Revisions to existing recommendations or proposed new ones.

OUTREACH ACTIVITIES

The Local Hazard Mitigation Plan is a public document, prepared with public input, thus:

- This report is sent directly to each of the five County Supervisors, who also serve as the Board of Directors of the Sacramento County Water Agency.

- This report is sent to the Water Resources Public Information Officer for preparation of a press release and Internet posting.
- Those who participated in the 2016 planning committee are encouraged to review this report.
- Annually, outreach brochures are inserted in the County utility bills and an additional brochure is direct-mailed to properties in a floodplain. These brochures direct the reader to www.stormready.org, where they can find this report, the Hazard Mitigation Plan, and Water Resources contact information.
- Water Resources engages regularly with other agencies, departments, districts, cities, and the public to discuss progress.
- Questions and comments should be directed to George Booth (916)874-6484, boothg@saccounty.net or Shayan Rehman (916)874-3768 rehmans@saccounty.net
- The Sacramento County Local Hazard Mitigation Plan may be viewed at www.stormready.org

GENERAL LOCAL FLOODPLAIN MANAGEMENT GOALS

MITIGATION OF REPETITIVE FLOOD LOSSES

Nationwide, a disproportionate amount of flood insurance claims are from property owners who have flooded multiple times. FEMA encourages communities to take an active interest in mitigating repetitive flood losses. Sacramento County has 30 repetitive flood loss areas described in Appendix G of the Local Hazard Mitigation Plan. Various mitigation measures are considered on a case-by-case basis. Water Resources has been assisting owners to mitigate flood risk, such as elevating houses utilizing FEMA grant funding.

CRS requires annual outreach to repetitive loss areas. The letter from the County Department of Water Resources encourages owners of repetitive flood loss properties to contact staff for technical assistance relevant to their specific flood concern. Water Resources engineering staff is always willing to meet with property owners to help them to understand the source of flooding and ways to reduce the risk. Call 3-1-1 to schedule an appointment.

Possible mitigation measures, to reduce flood risk, include:

- Acquisition/demolition – This alternative may be appropriate in areas of egregious flooding, such as flood-prone residential structures within a high velocity floodway.
 - There is a grant application for one acquisition project awaiting approval.
- Elevation – Lifting structures so that the floor is safely above the flood hazard and the foundation is constructed of flood resistant materials in a manner that would resist the hydraulic and hydrostatic forces is an excellent way to mitigate future flood losses. In past years, the Department of Water Resources assisted in the raising of 70 homes, 27 of which were repetitive loss properties.
 - There are pending FEMA grant applications for numerous home elevation projects throughout Sacramento County.
 - It is anticipated that dozens of houses will be elevated in coming years
- Flood-proofing – There are often mitigation measures taken by individual property owners to reduce the risk of flood damage such as walls, berms, sump pumps, overland release routing, and features to seal doorways and other entrances.
- Physical improvements – In some cases, there are things that the property owners can do on-site such as directing shallow floodwater away from a flood-prone structure. In other cases, there are drainage improvement projects that can be constructed by Water Resources staff.

HELPING PEOPLE UNDERSTAND FLOOD RISK

It is reasonable for every individual, family, neighborhood, and business to take responsibility for their flood safety by understanding the site-specific risk of flooding. Water Resources staff outreaches in many ways hoping the public will seek flood risk reduction advice.

Sources of potential flooding may include:

- Plugged storm drain inlet/pipe
- High intensity storm exceeding the capacity of the piped system
- Power outage or mechanical problem at pump station
- Overwhelmed pump station
- Record storm event
- Flood-prone areas outside of FEMA mapping area
- Sags and areas of ponding
- Roadside ditch
- Channels

- Streams
- Creeks
- Improper site grading
- Canals
- Sloughs
- Floodwall breach
- Levee failure
- Dam failure

On the County website www.stormready.org, there is helpful information for property owners and tenants to prepare themselves and their loved ones for winter storms. This website includes real time rain gage and stream gage data, and links to forecast sites.

The Local Hazard Mitigation Plan is not an emergency action plan; instead, it looks to mitigate risk before the hazard occurs. The planning committee was open to considering all viable mitigation measures.

GOALS OF THE 2016 LOCAL HAZARD MITIGATION PLAN

The 2016 planning committee prepared a mission statement for the mitigation planning effort.

Mission Statement: This Local Hazard Mitigation Plan assesses natural hazards of concern to the Sacramento community; evaluates risk to life safety, public health, property, and the environment; and evaluates mitigation measures to reduce these risks and vulnerabilities, minimize losses, and increase community resilience.

Then the planning committee determined the following four main goals in steering the hazard mitigation planning effort:

GOAL 1: Minimize risk and vulnerability of the Sacramento County community to the impacts of natural hazards and protect lives and reduce damages and losses to property, public health, economy, and the environment.

GOAL 2: Improve public outreach, awareness, education, and preparedness for all hazards to minimize hazard related losses

GOAL 3: Improve the capabilities of the community to mitigate losses and to be prepared for, respond to, and recover from a disaster event

GOAL 4: Assure conformance to Federal and State Hazard Mitigation Initiatives and Maximize Potential for Mitigation Implementation

PROGRESS ON THE MITIGATION ACTION RECOMMENDATIONS

Chapter 5 of the Local Hazard Mitigation Plan describes numerous mitigation actions recommended by the Planning Committee. Table 1 titled 2020 Status of Hazard Mitigation Actions outlines the progress on the proposed actions in unincorporated Sacramento County.

NEXT PLAN UPDATE

The Local Hazard Mitigation Plan (LHMP), dated December 2016, is effective for five years. The update will begin late 2020 as approved by the Board of Supervisors on July 14, 2020 (Item 37).

The LHMP will be an inclusive process with all seven cities, flood control districts, emergency management, various local government agencies, utilities, and special districts. The meetings will be professionally facilitated and we are expecting much public involvement in the planning process.

Maintaining a current LHMP is a federal requirement if the County is to be eligible for hazard mitigation grants and some post-disaster funding. The planning effort will:

- Identify natural hazards, the communities exposure to those hazards and actions that may mitigate those risks
- Engage the public in a dialogue regarding natural hazards and the potential risk
- Maintain and improve the County's standing in the FEMA Community Rating System
- Provide policy guidance for decision makers

A local hazard mitigation plan should address all natural hazards that could affect the community and describe risk and vulnerability to each hazard. The LHMP will describe the number of existing buildings, infrastructure, and critical facilities located in each participating jurisdiction.

There have been some changes to consider, such as:

- Regional flood control improvements
- Flood risk reduction studies for the delta communities
- Home elevation projects
- Structure acquisition projects
- Land development planning
- California Central Valley Flood Protection Plan

- Changes to statewide hazard mapping
- Capital Region Climate Readiness Collaborative
- Hydrology intensity duration and frequency analyses
- Additions to the repetitive flood loss list
- Floodplain mapping changes

The 2021 LHMP will contain modules with updated hazard mitigation information tailored for those communities who choose to participate in the planning process. Input from the stakeholders and public will be gathered in an open and inclusive manner, with each jurisdiction responsible for inviting its public to participate. The planning process will be structured to meet guidelines of the Disaster Mitigation Act and the Community Rating System.

Everyone is invited to participate in the LHMP planning effort slated for late 2020 and into 2021.

EXHIBIT A FEMA CONFIRMATION

U.S. Department of Homeland Security
1111 Broadway, Suite 1200
Oakland, CA. 94607-4052



FEMA

May 1, 2018

George Booth
Senior Engineer
Sacramento County Department of Water Resources
827 7th Street, Room 301
Sacramento, CA 95814

Dear Mr. Booth:

We have received documentation from Reclamation District 800, confirming their adoption of the *Sacramento County Local Hazard Mitigation Plan*. This jurisdiction is now in compliance with the planning requirements of the Disaster Mitigation Act of 2000.

The *Sacramento County Local Hazard Mitigation Plan* is valid for five years from the approval date, June 12, 2017, for all approved participants. The plan must be reviewed, updated and submitted to FEMA Region IX for approval at least once every five years. An updated list of the current status of participating jurisdictions is enclosed with this letter.

The approval of this plan ensures Reclamation District 800's continued eligibility for project grants under FEMA's Hazard Mitigation Assistance programs, including the Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, and Flood Mitigation Assistance Program. All requests for funding, however, will be evaluated individually according to the specific eligibility, and other requirements of the particular program under which applications are submitted.

If you have any questions regarding the planning or review processes, please contact Alison Kearns, Senior Community Planner, at (510) 627-7125 or by email at alison.kearns@fema.dhs.gov.

Sincerely,

Juliette Hayes
Division Director
Mitigation Division
FEMA Region IX

cc: Julie Norris, Mitigation and Dam Safety Branch Chief, California Governor's Office of
Emergency Services
Jennifer Hogan, State Hazard Mitigation Officer, California Governor's Office of Emergency
Services

www.fema.gov

Status of Participating Jurisdictions as of May 1, 2018

Jurisdictions – Adopted and Approved

#	Jurisdiction	Date of Adoption
1	Sacramento County	7/11/2017
2	Citrus Heights, City of	10/12/2017
3	Elk Grove, City of	8/23/2017
4	Folsom, City of	8/22/2017
5	Galt, City of	8/15/2017
6	Isleton, City of	7/26/2017
7	Rancho Cordova, City of	10/16/2017
8	Sacramento, City of	5/9/2017
9	Brannan Andrus Levee Maintenance District (RD's 317, 407, 2067)	12/14/2017
10	Cosumnes Community Services District Fire Department	9/6/2017
11	Los Rios Community College District	8/9/2017
12	Reclamation District 3	12/21/2017
13	Reclamation District 341	11/14/2017
14	Reclamation District 369	3/5/2018
15	Reclamation District 551	7/18/2017
16	Reclamation District 554	12/19/2017
17	Reclamation District 556	12/19/2017
18	Reclamation District 563	7/11/2017
19	Reclamation District 800	8/3/2017
20	Reclamation District 1000	7/14/2017
21	Reclamation District 1002	12/12/2017
22	Reclamation District 1601	7/18/2017
23	Reclamation District 2111	2/20/2018
24	Sacramento Area Sewer District	9/13/2017
25	Sacramento County Water Agency	7/11/2017
26	Sacramento Metro Fire District	9/28/2017
27	Sacramento Regional County Sanitation District	9/13/2017
28	Southgate Recreation and Park District	9/19/2017
29	Twin Rivers School District	8/8/2017

Jurisdictions – Approvable Pending Adoption

#	Jurisdiction

[insert Table 1]

TABLE 1

Status of Hazard Mitigation Actions

Action No.	Title	Status	Agency/Dept	2020 Status of Mitigation Actions	Contact
1	Integrate Local Hazard Mitigation Plan into Safety Element of General Plan	finished	Sacramento County Planning Department	Completed. However, recommend that when the new LHMP is approved at the Board it be scheduled concurrent with a General Plan amendment round (4 per year) so that the new LHMP can be re-incorporated by reference. Per the State this will be required to maintain our AB 2140 compliance which we currently have.	John Lundgren
2	Enhance Public Education and Awareness of Natural Hazards and Public Understanding of Disaster Preparedness	continuing	Sacramento County staff, various Departments	OES continues to do outreach using Sacramento Ready (website), notification system, and social media.	Dawn Pimentel
3	Increase pedestrian and bicycle evacuation routes by constructing regional bike/pedestrian trail infrastructure, and expanding connection to neighborhoods (particularly in vulnerable areas)	continuing	Regional Parks, Dept Transportation, Planning, others	The 47th project was re-scheduled for construction in 2021.	Steve White
4	Community Rating System (CRS) Program for Public Information (PPI)	continuing	Water Resources	Annually reviewed for CRS	Dawn Pimentel
5	Flood Insurance Assessment, Awareness, and Promotion	continuing	Water Resources	The CRS outreach is an annual activity. Since 1979, the only flood insurance available has been the National Flood Insurance Program, now private flood insurance policies are available in California.	Shayan Rehman / George Booth
6	Public Outreach Mailers	continuing	Water Resources	The CRS outreach is an annual activity.	Shayan Rehman / George Booth
7	Toxic Substance Release to rivers and creeks	continuing	Water Resources	Continuous effort	Dana Booth
8	Increase average [fossil] fuel efficiency and [renewable fuel consumption to] reduce GHG emissions from the County Fleet and Fuels	continuing	Dept General Services and others	continues	Judy Robinson and Keith Leech

Status of Hazard Mitigation Actions

Action No.	Title	Status	Agency/Dept	2020	Contact
				Status of Mitigation Actions	
9	Reduce Sacramento County's vulnerability to Climate Change by reducing GHG emissions in the commercial and residential sectors by making energy efficiency a priority through building code improvements [and advancing adoption of zero emission vehicles and infrastructure.]	continuing	Office of Sustainability, [Building Inspection Dept] and others	The Office of Planning and Environmental Review (PER) continues to work on the County's Climate Action Plan and Adaptation Strategy. In response to Board direction, an ambitious 12-month workplan has been established to complete the CAP. Additionally, PER prepared the County's first Environmental Justice element of the General Plan which was unanimously adopted by the Board in 2020. The Environmental Justice Element contains policies and implementation measures that seek to improve resiliency in disadvantaged areas by targeting improvements to Environmental Justice communities and developing a County-wide outreach strategy that engages those who have been traditionally or systematically excluded from public participation.	Judy Robinson /John Lundgren
10	Mitigate Climate Change impacts by integrating climate change research and adaptation planning into County operations and services	continuing	Office of Sustainability and others	discuss in forthcoming LHMP update	Judy Robinson
11	Reduce Sacramento County's vulnerability to extreme heat events and associated hazards by Increase tree planting/canopy preservation/enhancement	continuing	Office of Sustainability and others	discuss in forthcoming LHMP update	Judy Robinson
12	Implement Water Supply Capital Improvement Plan	continuing	Water Resources	Continuous progress is being made through construction of Capital Improvement Projects. The projects rehabilitate and upgrade conjunctive use, conservation, production, redundancy, and reliability of the water supply system.	David Bolen
13	Keep the Plan for Public Information current	continuing	Water Resources	Annually reviewed for CRS	Dawn Pimentel
14	Alder Creek flood control	continuing	Water Resources	The proposed land development project at Aerojet will include flood control on Alder Creek. The 130 year old gold miner's dam and sediment filled reservoir remains a concern (owned by the City of Folsom).	Michael Johnson / George Booth
15	Alder Creek flood mitigation (dam)	continuing	Water Resources	The land developers should be compelled to help the City deal stabilize this situation.	Shayan Rehman/ City of

Status of Hazard Mitigation Actions

Action No.	Title	Status	Agency/Dept	2020	Contact
				Status of Mitigation Actions	
16	Alder Creek miners' reservoir	continuing	City of Folsom, developer	The fish tissue have been tested for Hg (see note on 15, above)	George Booth
17	Delta Small Community flood protection [study]	continuing	Water Resources	First drafts of the plans for each town will be available for public review in September 2020.	Shayan Rehman
18	Gum Ranch flood control	continuing	Water Resources	Construction by the adjacent land developer	Michael Johnson & Shavan David Bolen
19	Implement Storm Drain Capital Improvement Plan	continuing	Water Resources	Continuous progress is being made through construction of Capital Improvement Projects. The projects rehabilitate and upgrade the storm drain system to reduce flood risk.	George Booth / Shayan Rehman
20	Laguna Creek at Triangle Aggregate flood control joint use basins	continuing	Water Resources	Conditional Letter of Map Revision study was submitted to FEMA July 2020. Upon affirmation by FEMA reviewer, staff will re-engage the miners in discussions leading to final configuration of the facility.	George Booth / Shayan Rehman
21	Laguna Creek mitigate flood hazard south of Jackson Highway	continuing	Water Resources with City of Rancho Cordova	The City of Rancho Cordova is aware of the concern.	George Booth / City of Rancho Cordova
22	Model Sacramento River levee breach (LAMP) south of Freeport	continuing	Water Resources with Maintenance Area 9 and FEMA	There will be more about this reach of levee in the Hood Flood Risk Reduction Plan.	George Booth
23	Morrison Creek Miners' Reach Flood Insurance Study	continuing	Water Resources	This is related to the proposed West Jackson Plan. The facility does provide flood control, as a condition of the original mining permit. Some residents downstream are hoping for new flood insurance rate maps, and reduced cost of flood insurance.	Michael Johnson / Heidi Huber
24	Morrison Creek Miners Reach levee improvements	continuing	Water Resources	This is related to the proposed West Jackson Plan.	Michael Johnson / Heidi Huber
25	Outreach storm watch guide (ALERT, Stormready, weather radio)	continuing	Water Resources	The PPI group seeks ways to improve / vary its outreach each year. (See Action #4, above)	Matt Robinson

Status of Hazard Mitigation Actions

Action No.	Title	Status	Agency/Dept	2020	Contact
				Status of Mitigation Actions	
26	Peak flow floodplain mitigation Arcade Creek near Auburn Blvd	continuing	Water Resources with the City of Sacramento	Ongoing concern	George Booth
27	Risk Map (flood frequency, depth, velocity)	not started	Water Resources	This might be a future interest for the County. The concept of Risk Map is to provide the public with more information than simply being in the 100-year FEMA floodplain.	George Booth
28	Elevation & Acquisition Projects (to Mitigate Flood Risk)	continuing	Water Resources	This is an active project.	George Booth
29	Repetitive Loss Properties (to Mitigate Flood Risk)	continuing	Water Resources	This is an active project.	George Booth
30	Five-Year Capital Improvement Plan – Drainage Projects	continuing	Water Resources	Continuous progress is being made through construction of Capital Improvement Projects. The projects rehabilitate and upgrade the storm drain system to reduce flood risk.	David Bolen
31	Arcade Creek Corridor Plan	continuing	Water Resources with cities of Citrus Heights and Sacramento	This is a reminder that the Arcade Creek Watershed Plan, 2003 includes some opportunities for jurisdictional partnership (www.saccreeks.org)	George Booth
32	Elevate Homes on Long Island (Grand Island Road, Sacramento River)	finished	Homeowner, FEMA Grant, Water Resources	Grant funding should be forthcoming, for a 2022 project	George Booth
33	Repetitive Loss Church Building on Dry Creek	continuing	Property owner, FEMA Grant, Water Resources	Grant funding should be forthcoming, for a 2021 project	George Booth
34	South Branch Arcade Creek – Gum Ranch Basin (with Fair Oaks Park District) and Kenneth Avenue Bridge Improvements (with Sacramento County Department of Transportation)	continuing	n/a	This action will be amended.	Michael Johnson
35	Dry Creek Flood Hazard Mitigation Acquisitions with County Regional Park Department	no activity	County Parks	discuss in forthcoming LHMP update	Liz Bellas/Mikki McDaniel

Status of Hazard Mitigation Actions

Action No.	Title	Status	Agency/Dept	2020		Contact
				Status of Mitigation Actions		
36	Arcade Creek at Evergreen Estates Floodwall Improvements	continuing	Developer with Water Resources	nothing to report		George Booth
37	Linda Creek Peak Flow Mitigation	no activity	Water Resources with Placer County	nothing to report		George Booth
38	Flood Preparation in the American River Parkway	continuing	County Parks with Water Resources	discuss in forthcoming LHMP update		
39	Improve County ALERT (Automated Local Evaluation in Real Time) System of Stream and Rain Gauges	continuing	Water Resources with County OES	The system is being maintained, as is.		Heidi Huber
40	Update County Hydrology Standards	continuing	Water Resources	The study to update the depth-duration-frequency table and the climate change analysis are being peer reviewed by a third-party consultant.		Shayan Rehman
41	Woodside Condominiums Repetitive Flood Loss Property	continuing	Water Resources with Woodside HOA	FEMA approved two grants to raise up to 90 units at Woodside. The Homeowners Association will soon vote to decide if they want to proceed.		George Booth
42	Bridge Replacement on Elk Grove Florin Road at Elder Creek	scheduled	Transportation	The Elk Grove Florin Road Widening Project is scheduled for construction in 2020-21. The project includes replacement of the existing, functionally obsolete, bridge at Elder Creek. The bridge replacement is scheduled for completion in 2021.		Steve White/ Mellisa Wright
43	Michigan Bar Bridge Replacement at the Cosumnes River	scheduled	Transportation	The Michigan Bar Bridge Replacement project was re-scheduled for construction in 2022.		Steve White
44	El Camino Avenue Phase 2 Road Improvements	scheduled	Transportation	completed		Steve White

Status of Hazard Mitigation Actions

Action No.	Title	Status	Agency/Dept	2020		Contact
				Status of Mitigation Actions		
45	Improve Flood Protection and/or Evacuation Planning for Mobile Home/RV Park at Manzanita/Auburn. Alternatively, the Park Should Establish Flood Warning and evacuation procedures.	continuing	Property owner, Water Resources	This is still of interest to staff, subject to feedback from the property owners(s).		George Booth
46	Hydromodification and Stormwater Quality Countywide	continuing	Water Resources	Ongoing concern		Dana Booth
47	Evacuation Mapping	finished	Levee RDs, County OES, City of Sacramento, Water Res.	these are posted on the County GIS (Water Resources page)		George Booth
48	Regional Flood Management Plan Projects	continuing	Levee RDs, SAFCA, Water Resources	Ongoing concern		George Booth
49	Erosion Site Repairs	continuing	Water Resources	No changes or updates. We currently have no projects in progress or slated. These as noted on your attached are only entered into by WR when it has been determined that there is a flood, safety, or environmental aspect that deems the repair necessary. Most cases are just natural erosion that is inherent of most of our maintained creek		Rod Goss

updated July 2020 by Water Resources, G. Booth

All other actions described in Chapter 5 are jurisdictions with their own governance (Board or Council)