



Los Angeles County Floodplain Management Plan 2020 Update

LA COUNTY FLOODPLAIN MANAGEMENT PLAN 2020 UPDATE

Who we are:

Public Works is one of 37 departments of the Los Angeles County, directed by the Board of Supervisors.

What we do:

Public Works designs, builds and maintains transportation and flood control infrastructure, and provides municipal services to the County's unincorporated areas, including serving as the County Floodplain Manager.

Why we're here:

To discuss the update to Los Angeles County's Floodplain Management Plan (FMP).

LA COUNTY FMP 2020 UPDATE

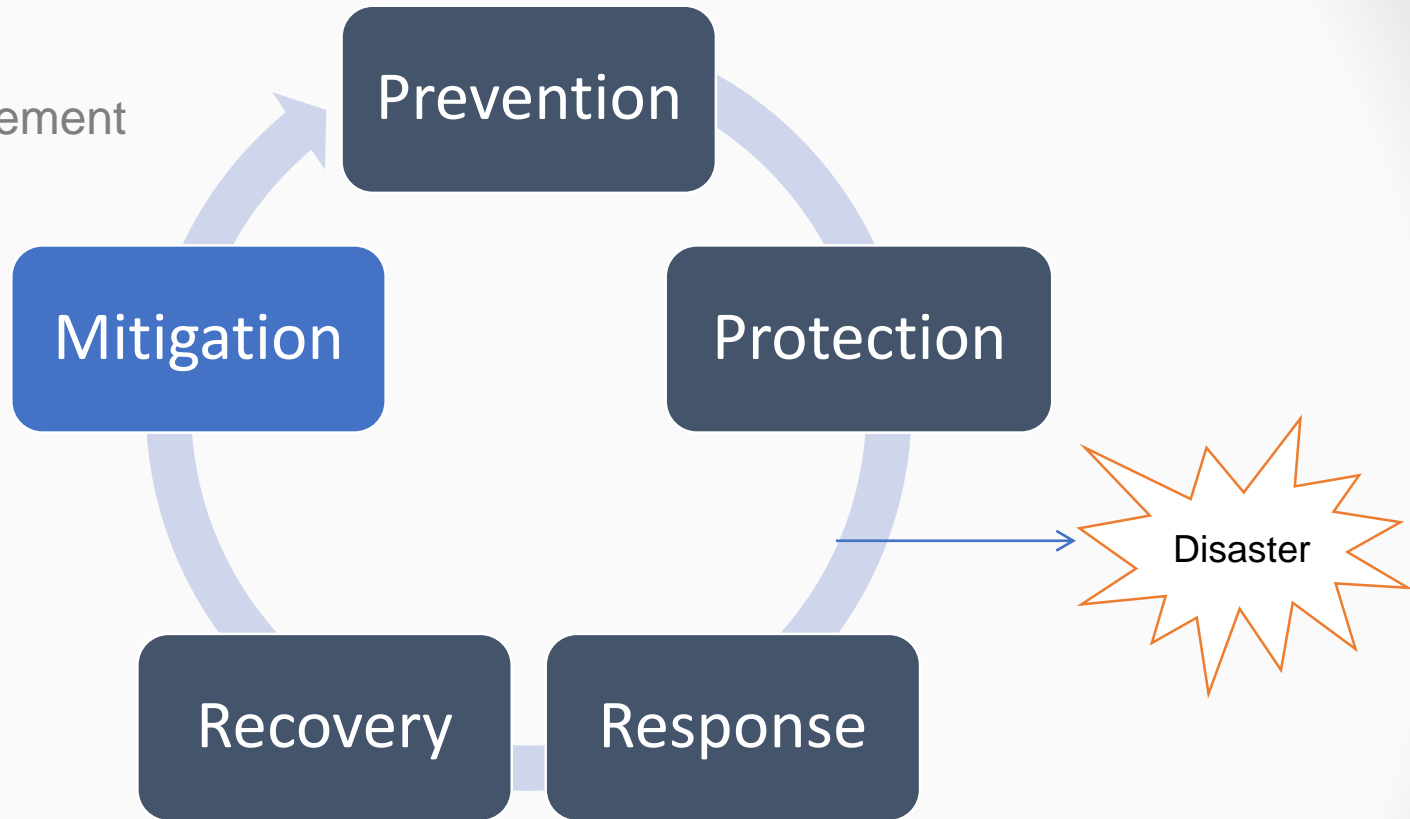
What are we going to talk about?

- What is Mitigation?
- What is a Floodplain Management Plan (FMP)?
- Why develop a FMP?
- What is the Community Rating System (CRS)?
- What is the process for FMP Development?
- How will the FMP assess risk?
- The Draft Plan

LA COUNTY FMP 2020 UPDATE

What is Mitigation?

Five Phases of
Emergency Management



“Sustained action taken to reduce or eliminate long-term risk to life and property”

LA COUNTY FMP 2020 UPDATE

What is a FMP?

An overall strategy of programs, projects, and measures aimed at reducing the adverse impacts of flood hazards on the community.

LA COUNTY FMP 2020 UPDATE

What is a FMP?

A well prepared plan will:

- Perform a comprehensive review of alternatives;
- Identify and prioritize actions;
- Involve the public;
- Educate the public;
- Meet defined goals and objectives

LA COUNTY FMP 2020 UPDATE

Why Develop a FMP?

Because flooding is a problem in Los Angeles County:

- There have been more than **30 state or federal flood-related disaster declarations** affecting the communities of Los Angeles County since 1950.
- Los Angeles County was declared a federal disaster area 5 times since 1992.



LA COUNTY FMP 2020 UPDATE

Why Develop a FMP?

Types of flooding and flood-related hazards:

- Alluvial fan flooding
- Coastal flooding
- Flash flooding
- Fluvial flooding
- Lake flooding
- Levee flooding
- Mudslides
- Riverine flooding
- Seiche
- Tsunami
- Dam inundation

LA COUNTY FMP 2020 UPDATE

Why Develop a FMP?

- Can act as the keyway to funding
- Proactive vs. reactive
- The Community Rating System (CRS)
- Support other planning mechanisms
 - *County Hazard Mitigation Plan*
 - *Land Use plans*
 - *Watershed plans*
- The blueprint for flood risk reduction

LA COUNTY FMP 2020 UPDATE

What is the NFIP?

- The National Flood Insurance Program (NFIP)
- Aims to reduce the impact of flooding on private and public structures. It does so by providing affordable insurance to property owners, renters and businesses and by encouraging communities to adopt and enforce floodplain management regulations.
- These efforts help mitigate the effects of flooding on new and improved structures.
- Flood insurance from the NFIP is only available in participating communities.

LA COUNTY FMP 2020 UPDATE

What is the Community Rating System (CRS)?



- A voluntary incentive program
- Part of the NFIP
- Administered by the Federal Emergency Management Agency (FEMA)
- Encourages NFIP communities to perform floodplain management activities that exceed the minimum NFIP requirements.

LA COUNTY FMP 2020 UPDATE

The CRS and Los Angeles County

- LA County first joined the CRS program in 1990.
- As of May 2011, the County has earned a **Class 7 rating**.
- Up to 15% reduction on flood insurance premium for residents purchasing or renewing their policies in the unincorporated areas of the County.
- The 1,500 flood insurance policy holders are saving approximately \$214,926 (average of \$143 per policy) annually in insurance premiums.

LA COUNTY FMP 2020 UPDATE

The Planning Process

- Primary objectives:
 - Maximize points under the Floodplain Management Plan Activity
 - Improve CRS Class
 - Create a Program for Public Involvement (PPI) as part of the planning process.
- Planning process will follow the CRS 10-step process
- Scope of work has 7 principal phases.



LA COUNTY FMP 2020 UPDATE

The Steering Committee

- An 18 member Steering Committee is overseeing the FMP update
- Comprised of non-governmental and governmental stakeholders
- Has met 7 times from June 2019 to February 2020
 - *Met as needed on the 2nd Wednesday of every month.*
- ***All meetings were open to the public***
- Agendas and Meeting summaries are available on the County website

<https://pw.lacounty.gov/WMD/NFIP/FMP2020/>

LA COUNTY FMP 2020 UPDATE

Mission Statement/Goals

Mission Statement:

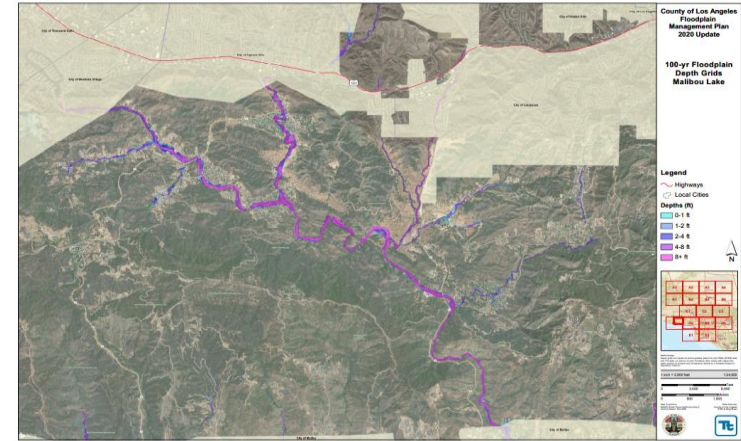
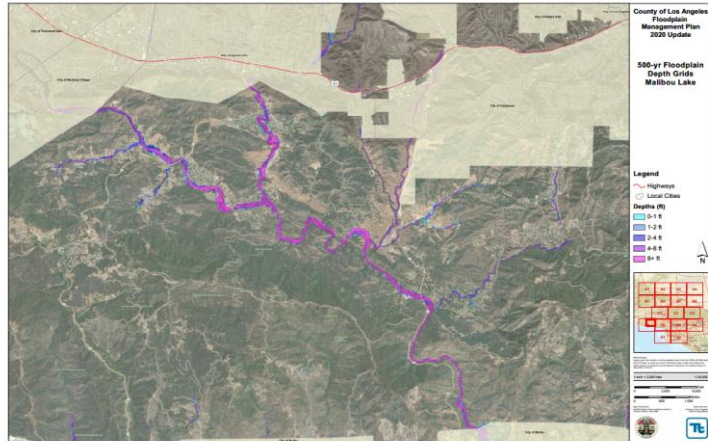
“Protect life, property, the economy and the environment of Los Angeles County by identifying and communicating risks and sustainable actions to reduce flood hazards and thus enhance community resilience.”

Goals:

1. Enhance community resilience from the impacts of flood hazards
2. Protect life, safety, property and economy.
3. Communicate to residents and stakeholders flood risk based on best available data and science.
4. Increase resilience of infrastructure and critical facilities from flood hazards.
5. Account for flood risk in land use and planning.
6. Preserve, enhance or restore the natural environment’s floodplain functions.
7. Encourage the development and implementation of long-term, cost-effective and environmentally sound flood hazard mitigation projects.

LA COUNTY FMP 2020 UPDATE

Flood Hazard Risk Assessment



This image shows a map of a residential area with a flood hazard overlay. The map displays a grid of buildings and streets, with a blue shaded area indicating a flood hazard zone. The map is overlaid on a topographic background.

Hazard Report	
APN:	
Address:	150 Pacific City Blvd
City:	Malibu
100-yr Flood Hazard Building Damage:	\$61,100
500-yr Flood Hazard Building Damage:	\$60,200
100-yr Flood Hazard Contents Damage:	\$11,100
500-yr Flood Hazard Contents Damage:	\$10,200
100-yr Flood Hazard Building Damage:	\$61,100
500-yr Flood Hazard Building Damage:	\$60,200
100-yr Flood Hazard Contents Damage:	\$11,100
500-yr Flood Hazard Contents Damage:	\$10,200
100-yr Flood Hazard Building Damage:	\$61,100
500-yr Flood Hazard Building Damage:	\$60,200
100-yr Flood Hazard Contents Damage:	\$11,100
500-yr Flood Hazard Contents Damage:	\$10,200
100-yr Flood Hazard Building Damage:	\$61,100
500-yr Flood Hazard Building Damage:	\$60,200
100-yr Flood Hazard Contents Damage:	\$11,100
500-yr Flood Hazard Contents Damage:	\$10,200
100-yr Flood Hazard Building Damage:	\$61,100
500-yr Flood Hazard Building Damage:	\$60,200
100-yr Flood Hazard Contents Damage:	\$11,100
500-yr Flood Hazard Contents Damage:	\$10,200
100-yr Flood Hazard Building Damage:	\$61,100
500-yr Flood Hazard Building Damage:	\$60,200
100-yr Flood Hazard Contents Damage:	\$11,100
500-yr Flood Hazard Contents Damage:	\$10,200

For Submittal: Prepare Date: 7/15/2021

LA COUNTY FMP 2020 UPDATE

What is Risk?

Risk is defined as a function of :

☑ Hazard

- *Source of potential danger or adverse condition*

☑ Exposure

- *Manmade or natural features that are exposed to the hazard*

☑ Vulnerability, and

- *Damage susceptibility of the exposed features*

☑ Capability

- *Regulatory Capability*
- *Technical Capability*
- *Financial Capability*



LA COUNTY FMP 2020 UPDATE

What is Risk Reduction?

To reduce Risk:

☞ ***Manage the Hazard:***

E.G. structural flood control

☞ ***Reduce Exposure:***

E.G. remove assets exposed to the hazard

☞ ***Reduce Vulnerability:***

E.G. retrofitting

☞ ***Increase capability:***

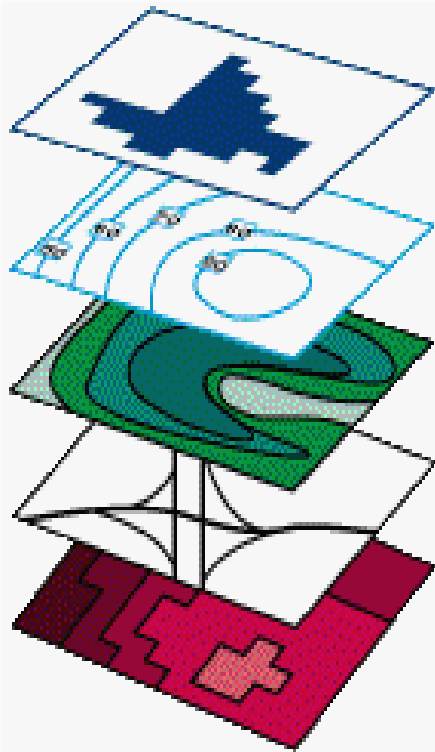
E.G. \$, preparation, technical assistance, planning



LA COUNTY FMP 2020 UPDATE

Risk Assessment

5
↑
1



1. Hazard Locators (Soils, floodplains, landslides)
2. Inventories (Buildings, roads, critical areas)
3. Exposure (Direct and Indirect)
4. Disaster Scenario (Vulnerability assessments)
5. Suggest Risk Reduction Measures

LA COUNTY FMP 2020 UPDATE

What is Hazus-HM?

- HAZUS-MH is a powerful risk assessment methodology for analyzing potential losses from floods, hurricane winds and earthquakes.
- Current scientific and engineering knowledge is coupled with the latest geographic information systems (GIS) technology to produce estimates of hazard-related damage before, or after, a disaster occurs.



LA COUNTY FMP 2020 UPDATE

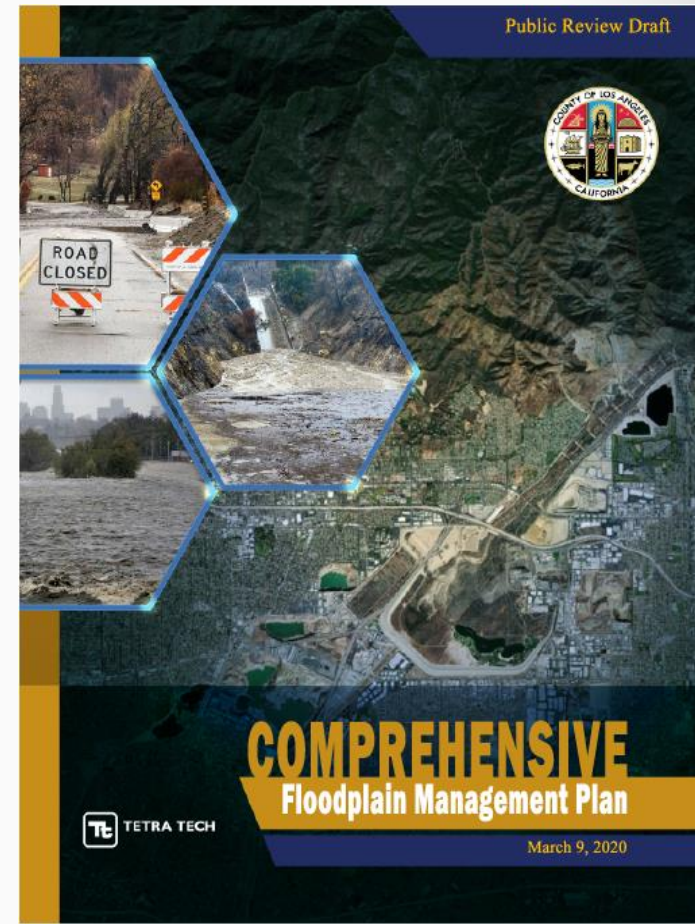
Repetitive Loss?

- Definition: Any property for which 2 or more flood insurance claims of more than **\$1,000** have been paid by the NFIP within any rolling **10-year** period since 1978.
- FEMA records indicate there are approximately 56 repetitive loss properties in Unincorporated Los Angeles County.
- The FMP must address repetitive losses through a Repetitive Loss Area Analysis.

LA COUNTY FMP 2020 UPDATE

The Draft Plan

- Over 300 pages!
- Identifies and prioritizes 37 actions
- Actions are categorized in to 6 categories:
 1. Prevention
 2. Property Protection
 3. Public Education and Awareness
 4. Natural Resource Protection
 5. Emergency Services
 6. Structural Projects



LA COUNTY FMP 2020 UPDATE

The Repetitive Loss Area Analysis

- Companion document to the FMP
- Looks at flood issues within identified repetitive loss areas
- Identifies 32 Repetitive Loss areas
- Takes the same 37 action from the FMP and expands them for application to the repetitive loss areas.
- Will be implemented and maintained concurrently with the FMP



LA COUNTY FMP 2020 UPDATE

Public Comment Period

- Runs thru end of **Tuesday March 31, 2020**.
- Visit the following website for the draft plan and to learn how you can participate in the review process:
<https://pw.lacounty.gov/wmd/NFIP/FMP2020/DraftFMP>
- Once the public comment processed is closed, the plan will be submitted to FEMA for review
- The final plan will be adopted by the County's Board of Supervisors.
- Public can track plan implementation and maintenance via annual plan progress reporting by the County (Chapter 13)

LA COUNTY FMP 2020 UPDATE

For More Information

Please visit the FMP website at:

<https://dpw.lacounty.gov/WMD/NFIP/FMP2020/>



The screenshot displays the website for Public Works, Los Angeles County. The header includes the logo and navigation menu with options like Residents, Businesses, Projects, Online Services, About Us, and Contact Us. A search bar and a language selection dropdown are also present. The main content area features a sidebar with a navigation menu for the Floodplain Management Plan 2020 Update, including links for What is the NFIP?, What is the CRS?, Objectives of the FMP Update, Update Process, Steering Committee, Charter, Members, Meetings, and Public Outreach and Participation. The main content area contains the following text:

Floodplain Management Plan 2020 Update

Los Angeles County is updating the Comprehensive Floodplain Management Plan (FMP) for LA County unincorporated areas.

The FMP is an overall strategy of programs, projects, and measures aimed at reducing the adverse impacts of flood hazards on the community. The FMP identifies and addresses the impacts caused by flood hazards and provides specific mitigation measures to help protect the properties and their occupants. LA County adopted its most recent FMP in 2016. The National Flood Insurance Program requires LA County to update its FMP every five years.

Development of the FMP is guided through the efforts of a Steering Committee. The Steering Committee is comprised of representatives from local government, non-profit groups, businesses, and members of the general public. The Steering Committee meets about once per month.

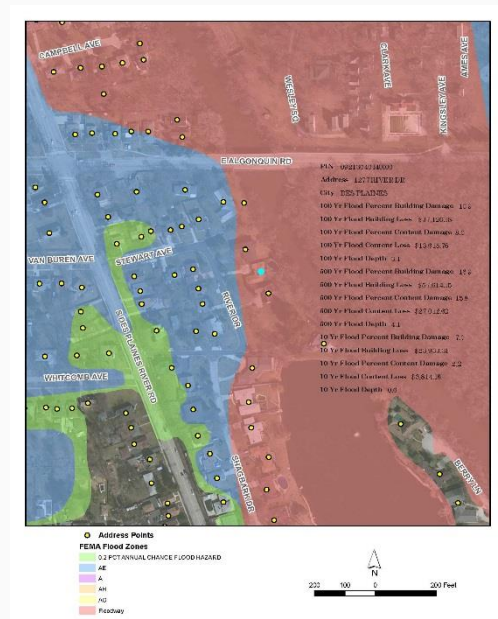
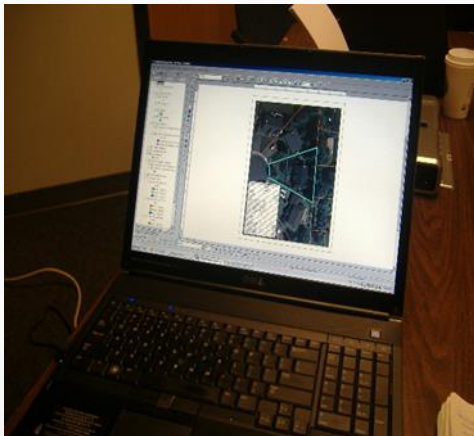
Make sure to visit this website often as we'll be posting updates on the FMP's progress. You can also obtain materials provided during Steering Committee meetings from this website.

LA COUNTY FMP 2020 UPDATE

Find out Your Flood Risk!

Visit a Hazus Work Station:

- Find out the risk exposure of your home
 - Determine extent and location
 - Review loss estimates for flood events
 - Receive a printout of the data



LA COUNTY FMP 2020 UPDATE

Disclaimer!

The Hazus Work Stations:

- These are estimates of what **COULD** happen;
- Not estimates of what **WILL** happen!
- Based upon best available data and science
- Need to understand that floodplains are dynamic and that modeling represents a snapshot in time.

LA COUNTY FMP 2020 UPDATE QUESTIONS?

Contact Information:

Larry Tran, P.E.

Project Manager

ltran@pw.lacounty.gov