Los Angeles County Aggregate Communities

FEMA National Flood Insurance Program NFIP Overview

November 1, 2023











Mark Pestrella, P.E.
Director of Public Works,
Los Angeles County Department of Public Works

Objectives

Los Angeles County NFIP Overview Webinar

- To protect lives and property through the National Flood Insurance Program within the Cities and County of Los Angeles County,
- To build floodplain management relationships within the **Cities and County of Los Angeles County**, and also with FEMA and CA DWR.
- To provide an overview of the NFIP within the Cities and County of Los Angeles County:
 - Los Angeles County Special Flood Hazard Areas (SFHAs) and Flood Risks
 - Rules and Regulations
 - Flood Insurance Premiums and Claims
 - Duties of the Local Floodplain Administrator,



Agenda

- Introduction Remarks
 - Mark Pestrella, P.E., LACDWP
 - Adam D. Lizarrage, ANFI, CFM (CTR), FEMA Region IX
 - Anntonette Duncan, P.E., CA DWR
- LA County's Aggregate SFHA and Flooding Sources
- BREAK (5 minutes)
- LA County's Aggregate Insurance Overview
- What is Floodplain Management
- 9 Duties of the Local Floodplain Administrator
- Flood Insurance Availability
- Concluding Remarks
 - Questions & Answers (if time permits)



Ground Rules

- Webinar is not being recorded
- Participants may ask questions during in the webinar Q & A Function
- PDF of Presentation and Q & A Sheet will be posted at:
 - https//pw.lacounty.gov/wmd/nfip/
- If there is no time left in the Q & A webinar portion, please email your questions to Patricia Wood and Garret Tam Sing and the Q & A will be on the LACDPW website.





Adam D. Lizarraga, ANFI, CFM (CTR) NFIP Regional Support Liaison, FEMA Region IX Optimal Solutions and Technologies (OST), Contractor

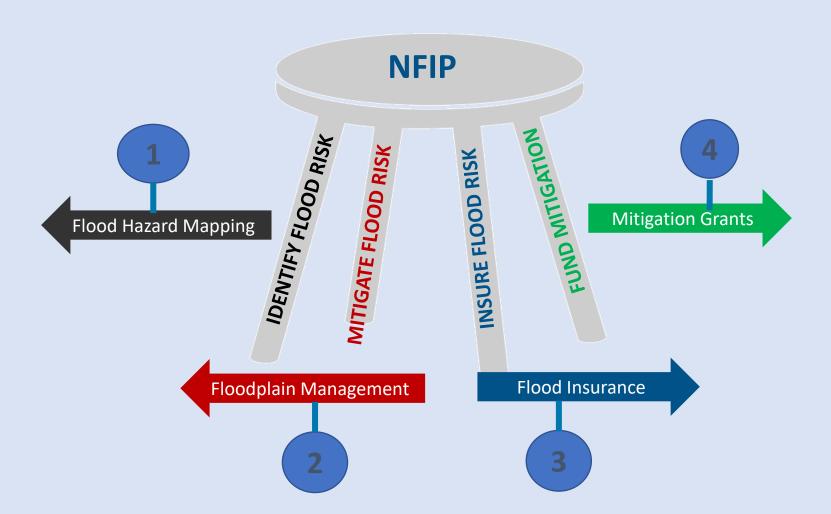
- Adam.Lizarraga@associates.fema.dhs.gov
- (916)375-0927

NFIP's Primary Goal





How Does the NFIP Work?





What Flooding Events are Covered?













NFIP Flood Insurance

A Mitigation Strategy to Protect the Life You Have Built







When Is Flood Insurance Mandatory?

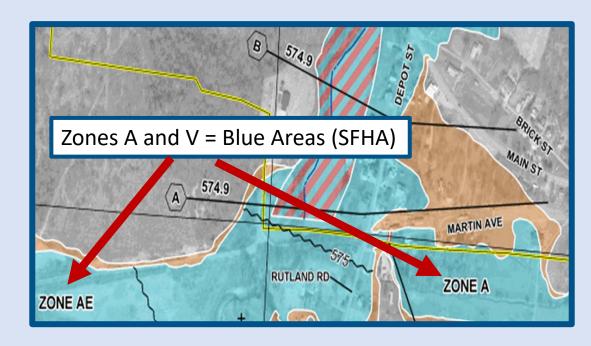
Buildings in "A" and "V" Flood Zones



Flood

Hazard

<u>A</u>rea



Federally

Backed

Loan

FEMA Flood Insurance Rate Maps = https://msc.fema.gov
1-877-336-2627



What Items are Covered?





NFIP Flood Insurance Limits

Occupancy Type:	Building	Contents
Residential	250,000	100,000
Commercial	500,000	500,000



Where Can I Buy Flood Insurance?

Contact Your Local Insurance Agent www.floodsmart.gov | 1-877-336-2627





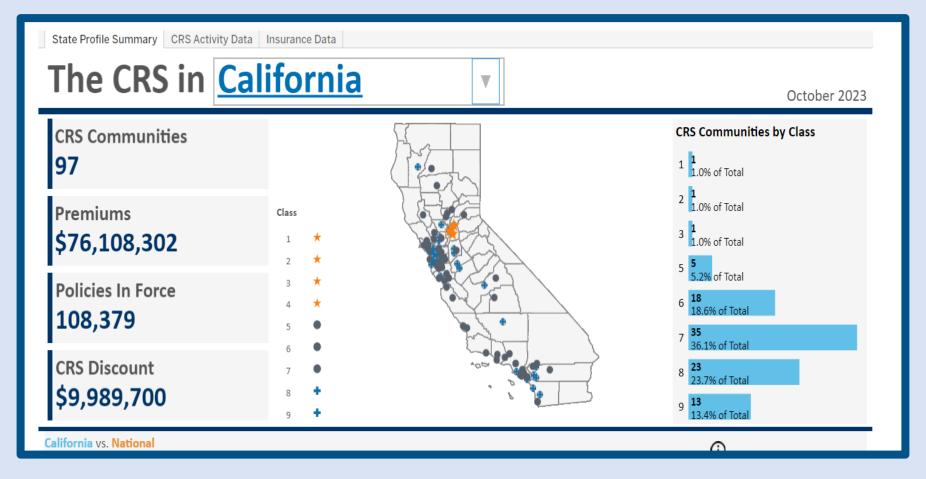
Community Rating System (CRS)



Class	Premium Discount
10	0%
9	5%
8	10%
7	15%
6	20%
5	25%
4	30%
3	35%
2	40%
1	45%

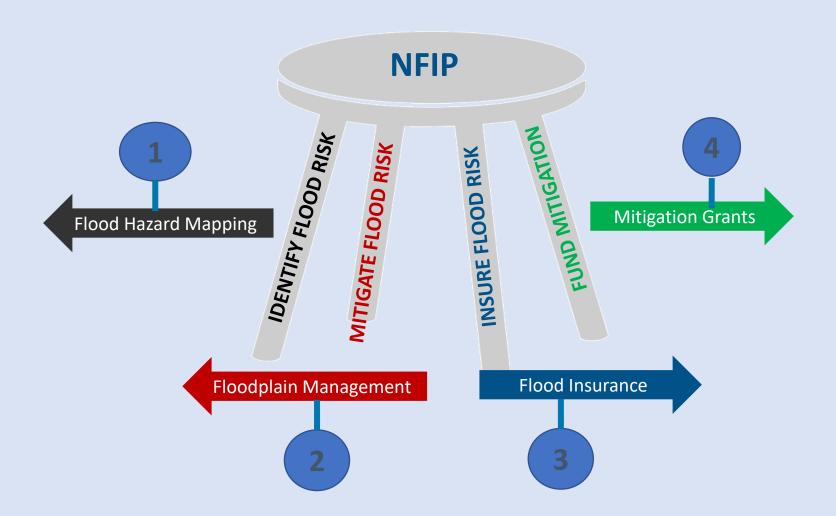


Community Rating System (CRS)





How Does the NFIP Work?



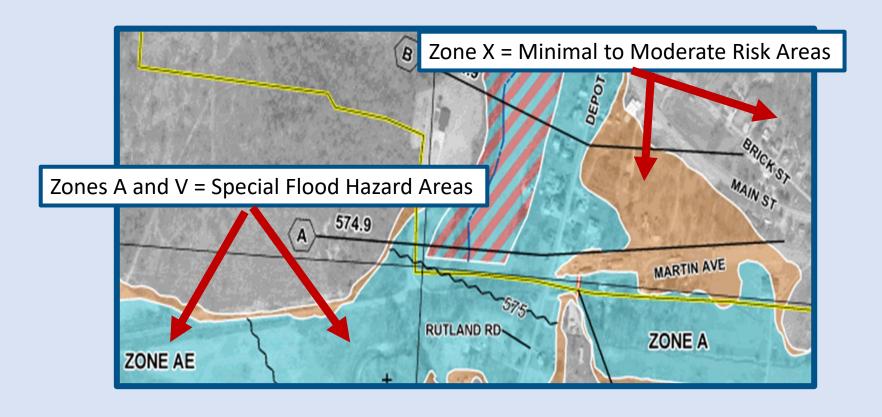


FEMA Flood Hazard Mapping

FEMA Map Service Center

https://msc.fema.gov

1-877-336-2627





Floodplain Management

Protection of Lives and Property through Building Compliance & Regulations





Hazard Mitigation Assistance

Mitigation Funding to Support More Resilient Communities





Hazard Mitigation Assistance

Mitigation Funding to Support More Resilient Communities

https://www.fema.gov/grants/mitigation





Where Can I Get More Information?

FEMA Region 9 Risk Analysis: Michael Bishop

Michael.bishop@fema.dhs.gov

FEMA Region 9 Floodplain Management: Michael Nakagaki

Michael.nakagaki@fema.dhs.gov

FEMA Region 9 Hazard Mitigation Assistance: Robert McCord

Robert.mccord@fema.dhs.gov

FEMA Region 9 NFIP Flood Insurance: Edie Lohmann

Edith.lohmann@fema.dhs.gov

NFIP Regional Support Contact: Adam Lizarraga

Adam.Lizarraga@associates.fema.dhs.gov



Where Can I Get More Information?

NFIP Flood Insurance Data and Analytics: Flood Insurance Data and Analytics (floodsmart.gov)

NFIP's Pricing Approach | FEMA.gov

NFIP Outreach Materials (State & Local Officials, Agents): <u>| The National Flood Insurance Program for Agents (floodsmart.gov)</u>

FloodSmart for Consumers: | The National Flood Insurance Program (floodsmart.gov)

NFIP Help Center: 1-877-336-2627

NFIP Flood Insurance Manuals and Handbooks: Flood Insurance Manuals and Handbooks | FEMA.gov

If you would like to receive NFIP email updates, please visit: <u>Signup for FEMA Email</u> <u>Updates (govdelivery.com)</u>



THANK YOU!









Division of Flood Management State of California, Department of Water Resources

- Anntonette.Duncan@water.ca.gov
- (916)699-8398



DWR NFIP Mission

To sustainably manage the water resources of California and encourage community participation in the National Flood Insurance Program (NFIP). In cooperation with FEMA and other agencies, promote continued community participation, encourage and educate communities located within flood prone areas on the financial benefits of NFIP participation and purchasing flood insurance.



DWR's Role in the NFIP

- Work collaboratively with FEMA Region 9
- Provide Technical Assistance to Local Communities
- Help ensure that Local Communities are meeting the min. NFIP requirements (CAVs/CACs)
- Review Floodplain Management Ordinances
- Provide NFIP related trainings



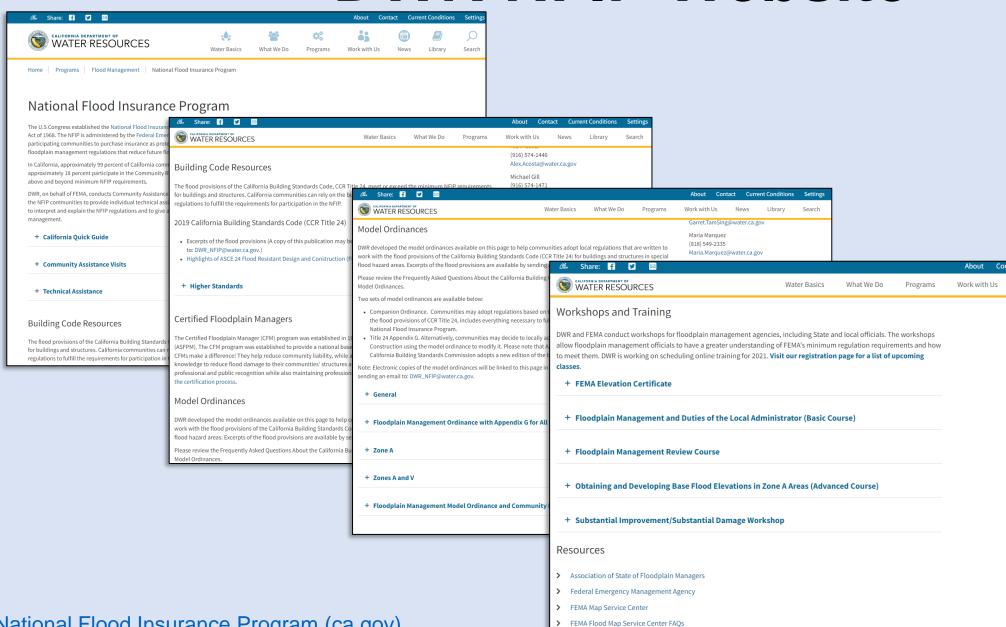
DWR Floodplain Specialist Map





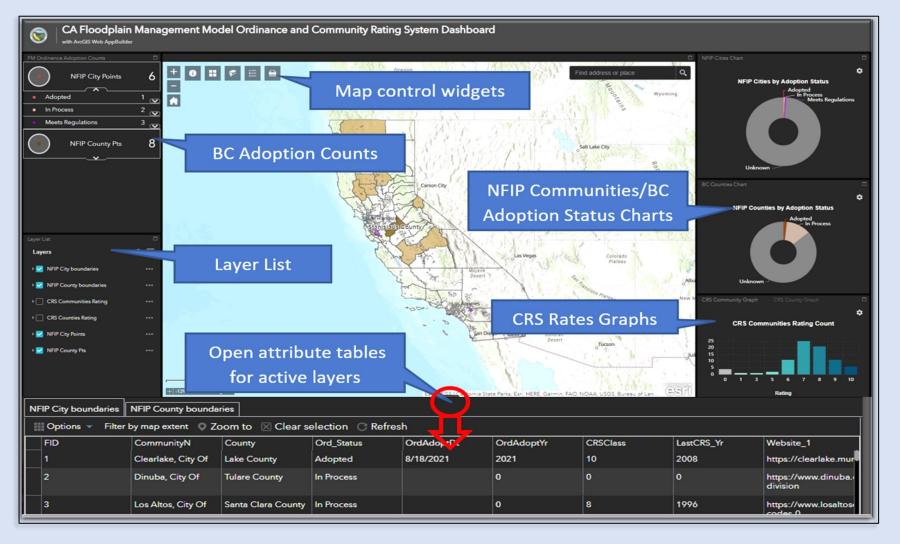
DWR NFIP Website

> Flood Hazard Mapping: Frequently Asked Questions





CA Floodplain Management Ordinance Dashboard







Patricia Wood, P.E. Senior Civil Engineer, Los Angeles County Department of Public Works

- pwood@pw.lacounty.gov
- (626)458-6131

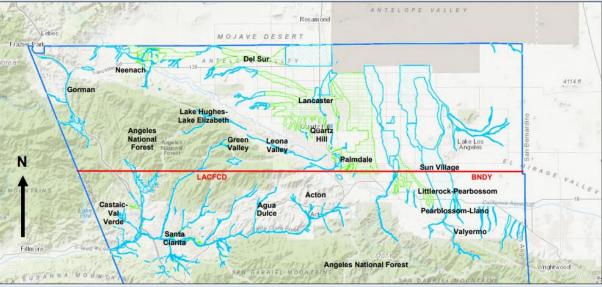
Los Angeles County Map

Special Flood Hazard Areas

Los Angeles County - South

Los Angeles County - North



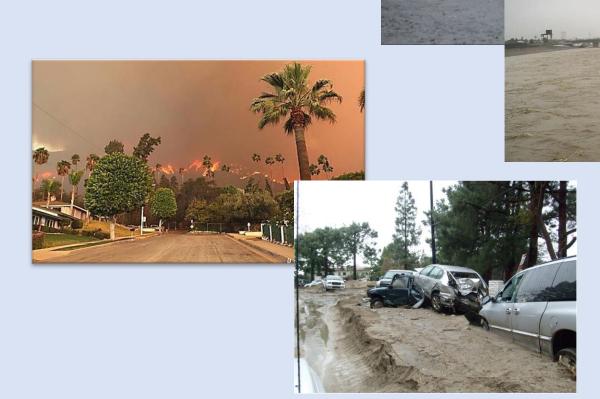




Emerging Flood Risks in Los Angeles County from Climate Change

- Rising sea levels
- More intense rainfall events
 - → Larger stormflows
- Larger, more severe wildfires
 - → Debris flows







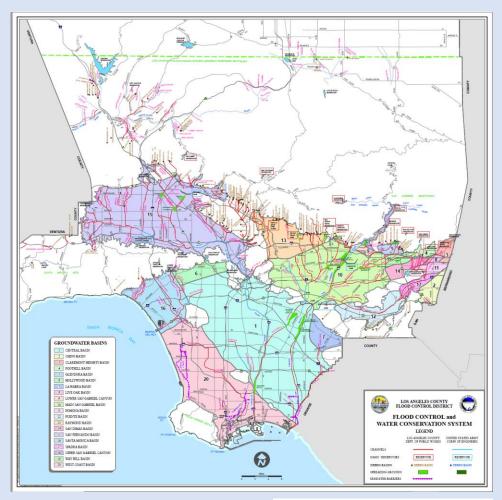
Los Angeles County's Comprehensive Urban Flood Control and Water Conservation System

- Dams and Reservoirs
- Debris Basins
- Stream Stabilizers (Crib Structures)
- Channels
- Storm Drains
- Pump Stations
- Spreading Grounds







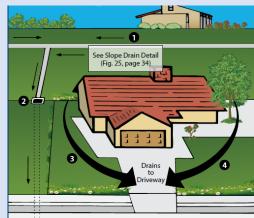




What Owners/Residents Can Do

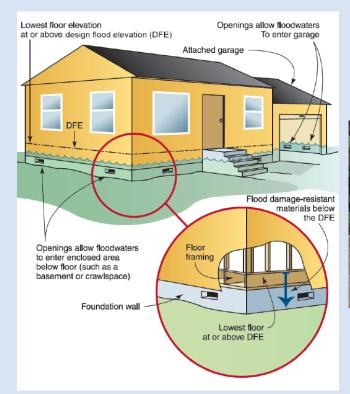
- Learn about your flood risk
- Consider buying flood insurance
- Look at doing drainage measures on your property
- Consider implementing flood resiliency measures on your structures
- Support flood infrastructure maintenance and improvements







https://waterforla.lacounty.gov/flood-preparation/







5 Minute BREAK



Floodplain Management and Flood Insurance "Quid Pro Quo"

- Flood Insurance is an incentive for communities to adopt and enforce better floodplain regulations.
- Structures located in a Special Flood Hazard Area and that are financed by a federally regulated loan must have flood insurance coverage.



NFIP Insurance Policy and Premium Overview



Communities Agoura Hills Alhambra Arcadia Artesia Avalon				No. of Paid	
Alhambra Arcadia Artesia Avalon		Total Premiums I			Total Losses Pai
Arcadia Artesia Avalon	71		23,425,000	65	
Artesia Avalon	5	2,647	1,750,000	8	17,162.4
Avalon	12	7,787	4,041,000	8	5,884.5
		596			0.0
	30		9,462,000	5	56,470.6
Azusa	3		1,050,000	1	750.0
Baldwin Park	5		1,750,000	2	47,602.0
Bell	0	0			
Bell Gardens	0		0		0.0
Bellflower	22		7,783,000		27,384.7
Beverly Hills	129		46,068,000	233	1,584,279.
Bradbury	3	1,277	742,000	8	20,720.0
Burbank	104	87.484	33,785,000	35	139,603.
Calabasas	85				185,356,
Carson	43	41.610	15,153,000	47	72.021.3
Cerritos	45	25 733	15,482,000	4	3,886.4
Daremont	78	13,620	8,544,000	5	6,484.1
Commerce	2		1.050.000	1	5,443.
Commerce	27				139.855
Covina	3				729.
	3				729
Cudahy					
Culver City	64	60,754	22,864,000	27	95,815.7
Diamond Bar	7			3	6,806.2
Downey	75	45,901	25,583,000	16	136,649.
Duarte	16	7,462	5,106,000	3	1,725.
El Monte	0	0	0		0.0
El Segundo	8				3,772.0
Sardena	10				4,416.
Slendale	85	53.860	29,155,000	73	392,759.
Glendora	27	14,218	8,777,000	9	239,266.
Hawaiian Gardens	6	5,734	1,791,000	3	11,271.
Hawthorne	7				0.0
Hermosa Beach	57				10,545.
Hidden Hills	35			40	465,182
Huntington Park	0		11,505,000		0.0
industry	3		2.100.000		500.0
inglewood	17	9,223	5 740 000		10.855
ngiewood Irwindale			350.000		10,855.
					1.614.819.
La Canada Flintridge			21,077,000		
La Habra Heights	4		1,400,000		3,442.1
La Mirada	14		4,700,000		69,823.
La Puente	1				7,942.
La Verne	9				21,907.
Lakewood	66		22,549,000	12	26,320.0
Lancaster	48	30,970	16,872,000	12	95,519.8
Lawndale	3	1.512	1.050.000	1	5,430.5
omita	6	2 979	1,785,000	4	13,289.4
Long Beach	1.753		508,984,000		2.620,709.
Los Angeles (City)			2,116,450,000	2 944	21,991,597.
Los Angeles (County)	797		233,467,000	2 027	25,819,063.
Lynwood	58			19	
Malibu	710		235,447,000		
Manhattan Beach			33,177,000	210	134,619.
Mannattan Beach Maywood	95		33,177,000	15	134,619.0
Maywood Monrovia	14				35.204.5
Montebello	10		3,700,000		3,935.
Monterey Park			4,829,000		22,535.6
Norwalk	21		6,795,000		8,167.
Palmdale	91		28,999,000	20	397,917.
Palos Verdes Estates			13,161,000		39,749.
Paramount	12				30,122.
Pasadena	108				232,029
Pico Rivera	57		18,776,000		18,872.
Pomona	8	17,681	5,815,000	7	42,948.
Rancho Palos Verdes		21,429	13,571,000	8	261,095.
Redondo Beach					1,216,135
Rolling Hills	10	5.176	3,500,000	1	0.0
				9	12.344.0
	3				582.
Rolling Hills Estates	4			2	9.920.
Rolling Hills Estates Rosemead					96,069.0
Rolling Hills Estates Rosemead San Dimas				16	96,069.0 5,639.1
Rolling Hills Estates Rosemead San Dimas San Fernando	1			2	5,639.
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel	1				
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino	1	7,509	4,550,000		
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita	1 13 275	7,509 329,916	80,669,000	85	
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Fe Springs	1 13 275 20	7,509 329,916 24,347	80,669,000 9,667,000	85 0	0.0
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Fe Springs Santa Monica	1 13 275 20 192	7,509 329,916 24,347 136,543	80,669,000 9,667,000 71,007,000	85 0 42	125,840
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Fe Springs Santa Monica Sierra Madre	1 13 275 20 192 24	7,509 329,916 24,347 136,543 12,910	80,669,000 9,667,000 71,007,000 7,246,000	85 0 42 24	125,840. 73,729.
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Clarita Santa Fe Springs Santa Monica Sierra Madre Signal Hill	1 13 275 20 192 24 5	7,509 329,916 24,347 136,543 12,910 2,291	80,669,000 9,667,000 71,007,000 7,246,000 1,428,000	85 0 42 24 6	73,729. 45,609.
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Clarita Santa Fe Springs Santa Monica Sierra Madre Signal Hill	1 13 275 20 192 24	7,509 329,916 24,347 136,543 12,910 2,291	80,669,000 9,667,000 71,007,000 7,246,000 1,428,000	85 0 42 24 6	73,729.: 45,609.0
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Clarita Santa Fe Springs Santa Monica Sierra Madre Signal Hill South El Monte	1 13 275 20 192 24 5	7,509 329,916 24,347 136,543 12,910 2,291 5,163	9,667,000 71,007,000 7,246,000 1,428,000 934,000	85 0 42 24 6	73,729.: 45,609.0
Rolling Hills Estates Rosemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Clarita Santa Monica Sierra Madre Signal Hill South El Monte South Gate	1 13 275 20 192 24 5	7,509 329,916 24,347 136,543 12,910 2,291 5,163 3,527	80,669,000 9,667,000 71,007,000 7,246,000 1,428,000 934,000 1,722,000	85 0 42 24 6 1	0.0 125,840.9 73,729.3 45,609.0 0.0 4,668.9
Rolling Hills Estates Rosemead San Dimas San Fernando San Barrio San Marino Santa Clarita Santa Fe Springs Santa Monica Sierra Madre Signal Hill South El Monte South El Monte South Gate South Pasadena	1 13 275 20 192 24 5 2	7,509 329,916 24,347 136,543 12,910 2,291 5,163 3,527 8,061	80,669,000 9,667,000 71,007,000 7,246,000 1,428,000 934,000 1,722,000 6,300,000	85 0 42 24 6 1 5	73,729.: 45,609.i 4,668.:
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Rolling Hills Estates Rocemead San Dimas San Fernando San Gabriel San Marino Santa Clarita Santa Fe Springs Santa Fe Springs Santa Fe Springs Santa Fe Monica Sierra Madre Signal Hill South El Monte South Pasadena Temple City Forrance	1 13 275 20 192 24 5 2 7 18	7,509 329,916 24,347 136,543 12,910 2,291 5,163 3,527 8,061 0	80,669,000 9,667,000 71,007,000 7,246,000 1,428,000 934,000 1,722,000 6,300,000 0	85 0 42 24 6 1 5 15	0.0 125,840.0 73,729.3 45,609.0 4,668.3 122,828.0 0.0
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Rolling Hills Estates Rocermead San Dimas San Dimas San Eranando San Gabriel San Marino Santa Clarita Santa Marino Santa Clarita Santa Marino Santa Clarita Santa Monica Sierra Madre Signal Hill South El Monte South Gate South Gate City Forrance Vernon Walnut West Covina West Hollywood West Hollywood West Hollywood West Hollywood West Hollywood	1 13 275 20 192 24 5 5 7 18 0 52 0 3 18 33 58	7,509 329,916 24,347: 136,543 12,910 2,291 5,163 3,527 8,061 0 29,984 0 1,136 10,094 25,370 45,810	80,669,000 9,667,000 71,007,000 72,246,000 1,428,000 934,000 1,722,000 6,300,000 0 15,625,000 0 800,000 4,899,000 12,826,000	85 0 42 24 6 1 5 15 0 12 0 6 2 2	0.0 125,840.9 73,729.3 45,609.6 0.0 4,668.5 122,828.4 0.0

Communities	Policies in Force	Total Premiums	Insurance in Force	No. of Paid Losses	Total Losses Paid
Total	12,336	\$ 10,339,028	\$ 3,986,052,000	8,788	\$ 64,554,612

- 1. Average Premium/Policy = \$10,339,028/12,336 = \$838/policy
- 2. Average \$ Loss/Claim =
 - Total Losses Paid/No. of Paid Losses = \$64,554,612/8,788 claim= \$7,346/claim

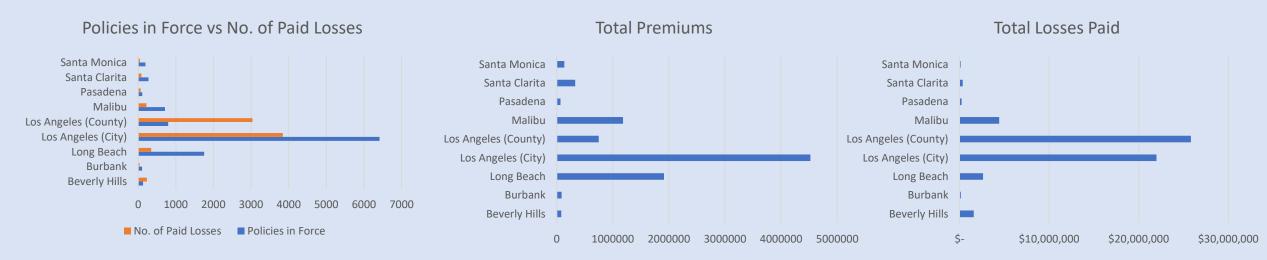


NFIP Insurance Policy and Premium Overview





Communities	Policies in Force	Tota	l Premiums	Ins	urance in Force	No. of Paid Losses	Total Losses Paid
Beverly Hills	129	\$	80,337	\$	46,068,000	233	\$ 1,584,280
Burbank	104	\$	87,484	\$	33,785,000	35	\$ 139,603
Long Beach	1,753	\$	1,912,020	\$	508,984,000	347	\$ 2,620,710
Los Angeles (City)	6,412	\$	4,521,373	\$	2,116,450,000	3,844	\$ 21,991,597
Los Angeles (County)	797	\$	749,000	\$	233,467,000	3,037	\$ 25,819,064
Malibu	710	\$	1,182,760	\$	235,447,000	218	\$ 4,434,373
Pasadena	108	\$	66,100	\$	36,062,000	67	\$ 232,029
Santa Clarita	275	\$	329,916	\$	80,669,000	85	\$ 366,179
Santa Monica	192	\$	136,543	\$	71,007,000	42	\$ 125,841
Total	12,336	\$	10,339,028	\$	3,986,052,000	8,788	\$ 64,554,612



What is Floodplain Management?

A decision-making process that aims to achieve wise use of floodplains.

Communities in Los Angeles County entering the National Flood Insurance Program agreed to undertake floodplain management in their projects and regulation of developments in floodplains.

Development

Any man-made change to improved or unimproved real estate, including but not limited to buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations or storage of equipment or materials.



Floodplain

Floodplain or flood-prone area means any land area susceptible to being inundated by water from any source.





Base Flood Elevation (BFE)

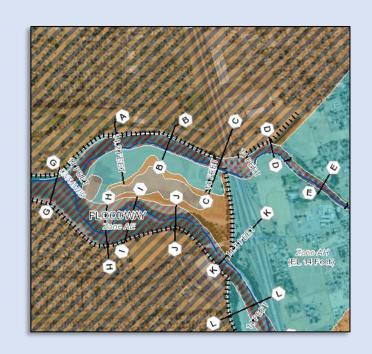
The water surface level of a watercourse or waterbody, referenced to an established datum, that corresponds to a flood event that has a one percent chance of being equaled or exceeded in any given year.

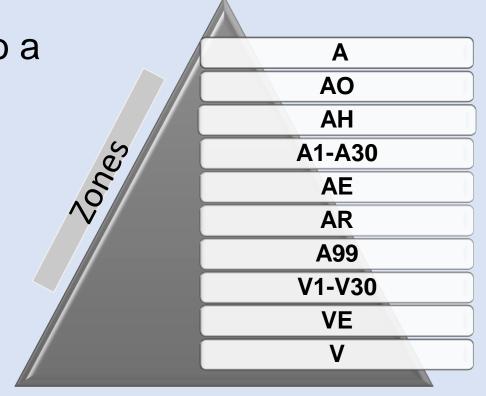




Special Flood Hazard Area (SFHA)

An area in the floodplain subject to a one percent or greater chance of flooding in any given year.

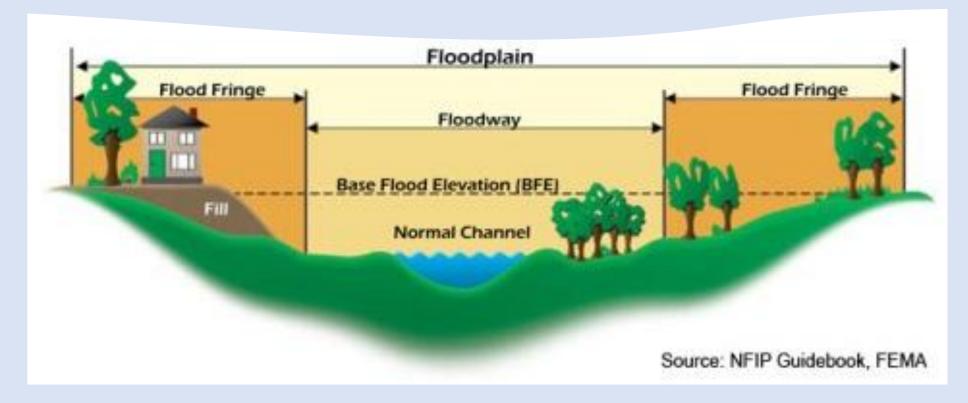






Floodway

"...means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot."

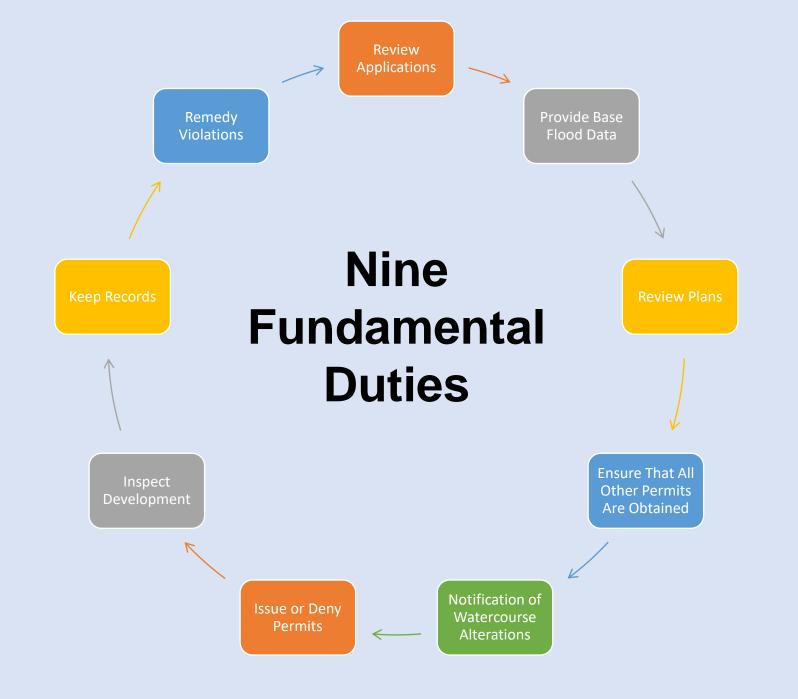




Salomon Miranda, P.E., MS

Division of Regional Assistance, Southern Region Office State of California, Department of Water Resources

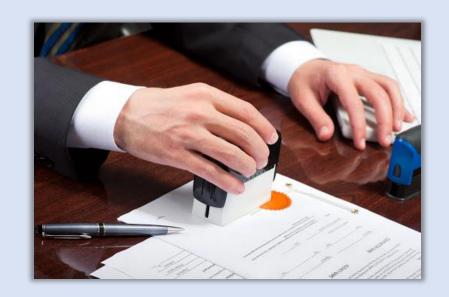
- salomon.miranda@water.ca.gov
- (818)254-4814 Office
- (818)621-9310 Cell





Duty #1 Review Applications

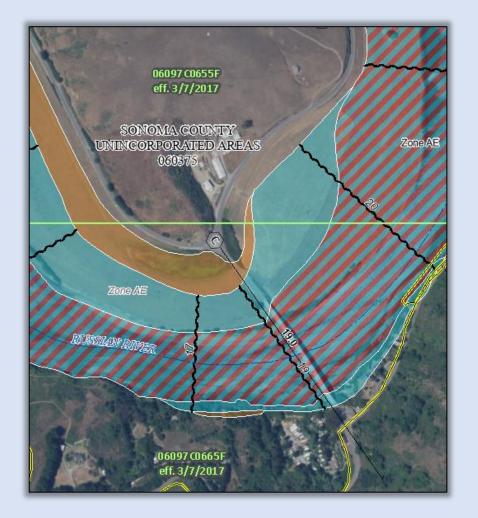
- Review and evaluate development permit applications and determine, whether or not, the development will take place in the Special Flood Hazard Area.
- Is the development located within the floodway?





REMINDER Approving Development in Floodways

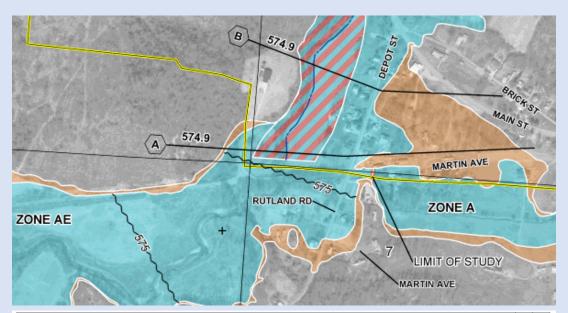
Development within the floodway is prohibited, unless an engineering analysis is provided that demonstrates that there is **ABSOLUTELY** no rise in Base Flood Elevations!

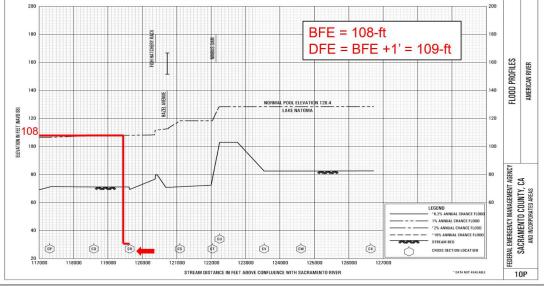




Duty # 2 Provide Base Flood Data

- Interpret floodplain boundaries and provide base flood elevation data when available.
- In Zone As:
 5 acres or 50 lot subdivision –
 BFE <u>must</u> be obtained.



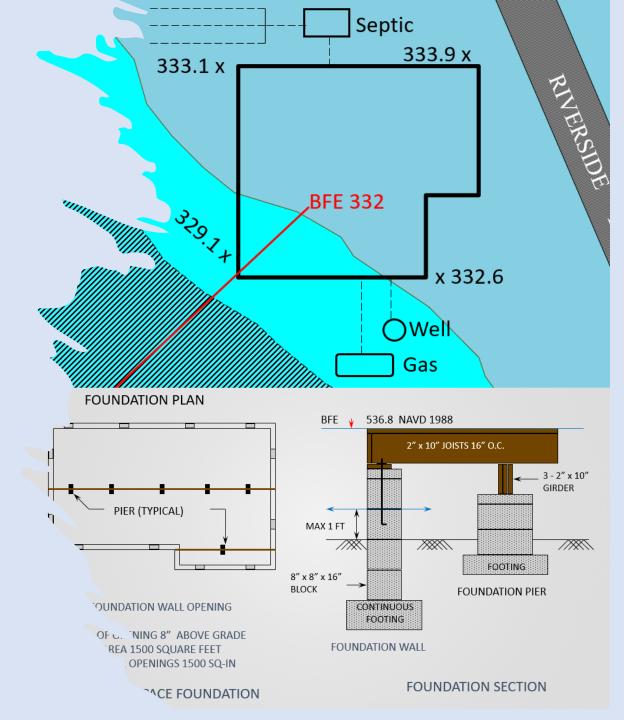




Duty # 3 Review Plans and Specs

Review plans and specifications for conformance with NFIP floodplain management criteria.

- Site plan
- Foundation design details
- Flood resistant materials
- Utilities
- Lowest floor and BFE's
- Substantial Improvement or Damage





Duty #4 Other Permits

Review proposed development to assure that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State Law, e.g.

- Federal (USACE 404)
- State (DFW 1602, RWQCB 401)
- Building Codes
- Underlying Property Owners



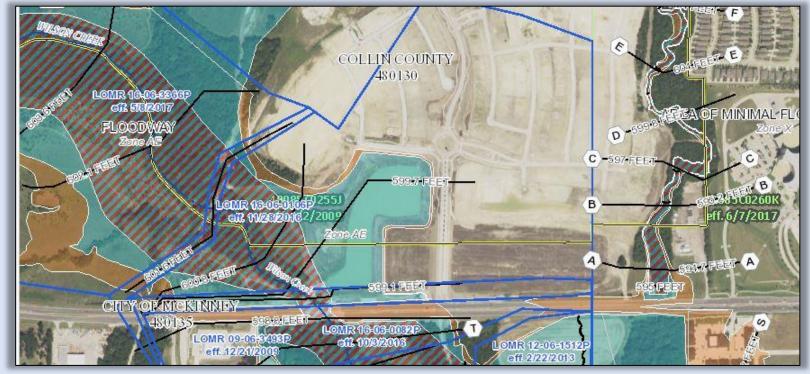
Duty #5 Watercourse Alterations

Notifications of changes to existing watercourses

must be submitted to:

- FEMA –

 (i.e. Letter of Map Revisions)
- DWR
- Adjacent Communities





Duty #6 Permits

- Issues or denies permits
- Conditionally approves permit





Duty #7 Inspections



Inspect development to verify that construction proceeds in conformance with approved plans...

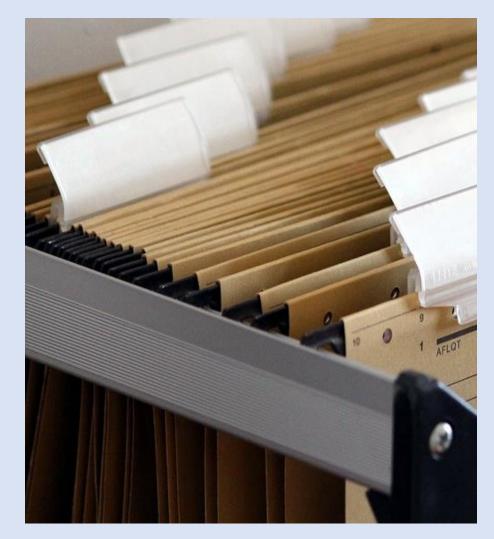
- Setback from floodway
- Foundation construction
- Lowest Floor Elevation
- Flood resistant materials requirements
- Wet floodproofing requirements (flood openings)
- Utilities and other building systems



Duty #8 Record Keeping

Maintains records for floodplain compliance:

- Permit Records
- Certified As-Constructed Lowest Floor Elevations (i.e., FEMA EC, V Zone Cert, pad elevation)
- "Dry" Floodproofing Certification
- Substantial Improvement/Damage Evaluation
- Letters of Map Change (LOMA/LOMR)
- Variance Actions





Elevation Certificate Roles



NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

AND

INSTRUCTIONS

2019 EDITION

NFIP administrative tool for:

- 1. Community compliance
- 2. Building's elevation certification
- 3. Flood insurance policy rating
- 4. Map revision/amendment support
- 5. Community Rating System

FEMA Form 086-0-33 (12/19) https://www.fema.gov/elevation-certificate



Duty #9 Remedy Violations...

Investigates violations and takes appropriate action:

- Bring structure or other development into compliance
- Implement enforcement provisions
- Protect structure or other development from flood damages, i.e., retrofit
- Deter future similar violations by modifying procedures, and attending training



NFIP Compliance

- The community's floodplain management program and permit records are re-viewed periodically by the FEMA's Regional Offices or state NFIP coordinating agencies (e.g., DWR).
- Either agency may inspect records as part of a Community Assistance Visit (CAV) or Community Assistance Contact (CAC).
- Communities which allow violations of floodplain management regulations or have program deficiencies may be subject to enforcement action by FEMA.



Consequences of Non-Compliance

CRS Minimum Standards

Reduction or loss of flood insurance discounts for residents

NFIP Minimum Standards

- Probation: Surcharge on all residents' flood insurance premiums
- Suspension/Elimination from NFIP
 - All residents lose access to NFIP flood insurance
 - Residents in 100-yr flood areas rendered <u>ineligible</u> for:
 - Federal grants or loans (e.g., SBA, HUD, EPA)
 - Federal flood disaster assistance
 - Federal mortgage insurance or loan guarantees (e.g., VA, FHA)



Cutting the Cost of Flood Insurance Premiums

- Elevate lowest floors of structures above the BFE.
- Add freeboard of one foot or more to reduce insurance premiums.
- Add proper flood openings.
- Limiting enclosures below BFE to <300 sq-ft.
- Having a BFE can mean lower insurance premiums (Zone A).
- Floodproof non-residential structures a minimum of 1-foot above the BFE.
- Join the Community Rating System (CRS) Program



Contact Information

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Questions & Answers