

# Hawaii Mapping Updates

and

# New Flood Hazard Assessment Tool



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State of Hawaii, Department of Land and Natural Resources  
July 29 – August 4, 2015

# Flood Insurance Rate Map Status

## KAUAI



- Digital FIRM effective 9/16/05
- Coastal revision effective 11/26/10
- Moloaa Stream, Waimea & Hanapepe Levee - on hold

## OAHU



- Digital FIRM effective 9/30/04
- Coastal revision effective 1/19/11
- 12 revised panels effective 11/5/14

## MAUI



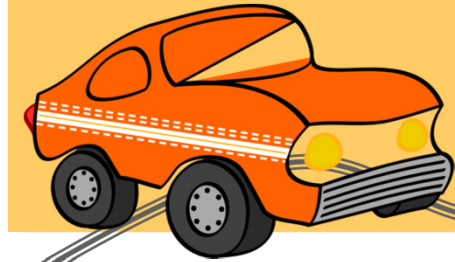
- Digital FIRM effective 9/25/09
- Coastal revision effective 9/19/12
- Kihei/Molokai revisions effective 11/4/15
- Future study for Iao Levee and Wailuku being reviewed

## HAWAII



- Preliminary DFIRM with coastal and riverine revisions to be released August 2015
- Public meetings August 17 & 18, 2015





# Hawaii County's Road to Digital FIRMs

- **July 2011 – FEMA distributed Preliminary DFIRM to:**
  - incorporate coastal study (Upolu Point to Cape Kumukahi);
  - update riverine delineations; and
  - incorporate Waiakea Stream study and Pu'ukapu Flood Study;
- **August 2015 – FEMA to issue revised Preliminary DFIRM:**
  - County worked with FEMA to improve to the coastal and riverine flood hazard delineation from the 2011 preliminary maps;
  - New - Hilo Bay, North and South Kona restudies;
- **As a Cooperating Technical Partner, Hawaii County is leading flood studies for Puna and other areas.**
- **Public Meetings Planned:**
  - August 17, 2015 Aupuni Center (101 Pauahi Street, Hilo) 4:30 pm – 8:00 pm
  - August 18, 2015 West Hawaii Civic Center (75-5044 Ane Keohokalole Highway, Building G, Kailua Kona) 4:30 pm – 8:00 pm





Department of Public Works

Working together as ONE to improve the quality of service for the health and safety of our Big Island Ohana

# Flood Awareness

[flood.hawaiiicounty.gov](http://flood.hawaiiicounty.gov)

## MAIN NAVIGATION

### News & Announcements

**What Are Draft Flood Studies?**

**Floodplain Mapping - The Basics**

**Floods happen...anywhere, anytime**

**Know Your Risk**

**Reducing Flood Damage**

**Federal Flood Insurance**

**Flood Preparedness**

**Tsunamis & Hurricanes**

## GET UPDATES

**Hawai'i County Civil Defense Message and Information**

FEMA updates (email)

## DRAFT FLOOD STUDIES - WHAT ARE THEY AND HOW DO THEY AFFECT THE COMMUNITY?

Tuesday, July 28, 2015 at 12:35PM

A "draft" flood study is a flood study that is intended for review by the Federal Emergency Management Agency (FEMA), but hasn't been officially adopted as an "effective" Flood Insurance Rate Map (FIRM). An effective FIRM is used by insurance companies and lenders to establish rates for flood insurance on properties with federally backed mortgages.

A draft flood study is used by Hawai'i County to regulate development, regardless of whether it has been adopted by FEMA. The following is a list of draft flood studies yet to be formally adopted by FEMA:

**The Puna Flood Study** covers approximately 282 square miles and extends from Volcano Village through Kea'au and down to Maku'u Drive in Hawaiian Paradise Park Subdivision. It establishes flood zones in an area that has never been mapped, and affects Tax Map Keys 1-6, 1-7, 1-8 and 1-9. The study is to be submitted to FEMA this week (July 29, 2015) for their review. The maps may be viewed by clicking on the links below:

Draft Puna Flood Study FIRMs (Use the Index Map to locate individual FIRM panel numbers):

## SEARCH

Search

## TWITTER



**@dpwhi**

Kapi'olani Street Extension Traffic Advisory

HILO, July 31, 2015 -...

<http://t.co/KQyDbvotXz>  
about a day ago



**@dpwhi**

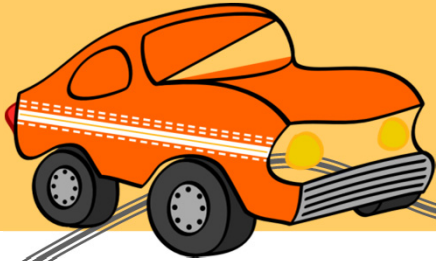
PROPERTY OWNERS ENCOURAGED TO ATTEND INFORMATIONAL MEETING ON PRELIMINARY FEMA FLOOD MAPS FOR HAWAII COUNTY....

<http://t.co/PdBFw1YWE0>  
about 5 days ago



**@dpwhi**



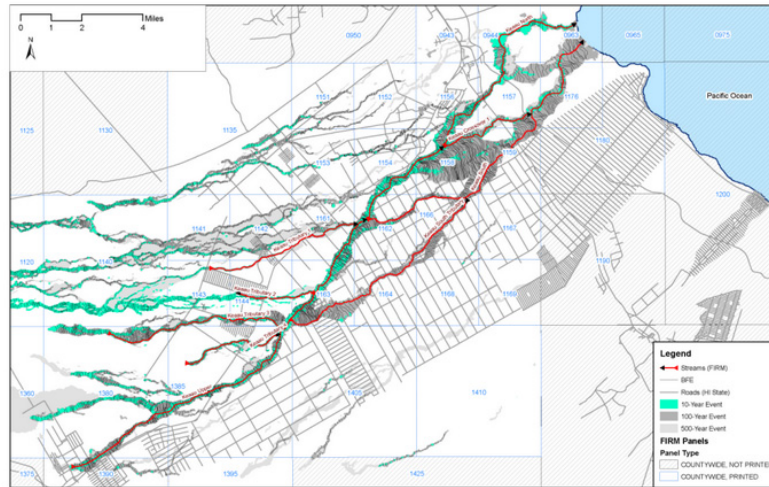


# Hawaii County's Road to Digital FIRMs

County Initiated Studies that will not be reflected in August 2015 revised preliminary DFIRMs (and FHAT) but will be used to regulate floodplain development:

VIEW ONLINE 

- Puna Flood Study (affected panels: ~36 panels previous not printed)



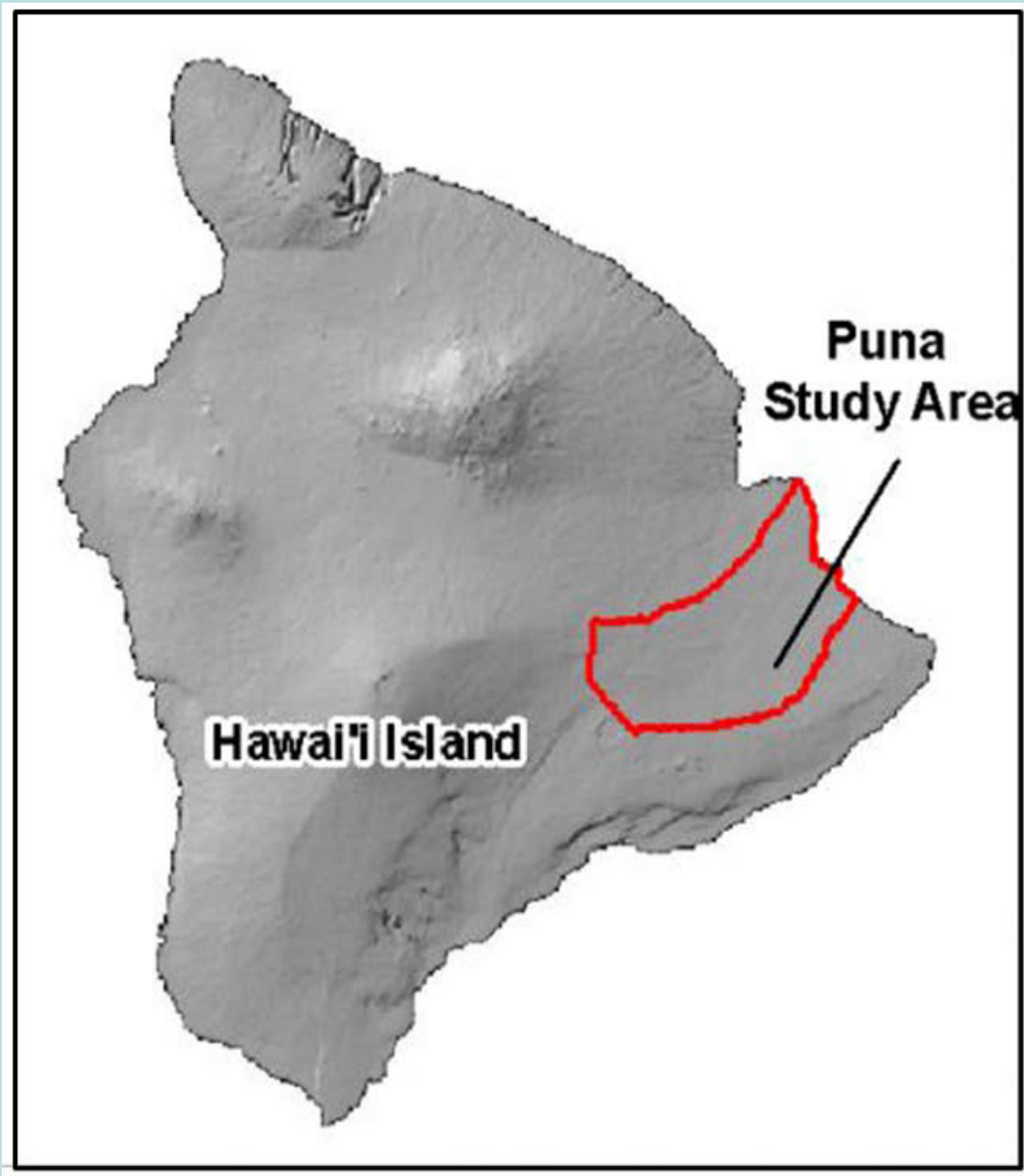
VIEW ONLINE 

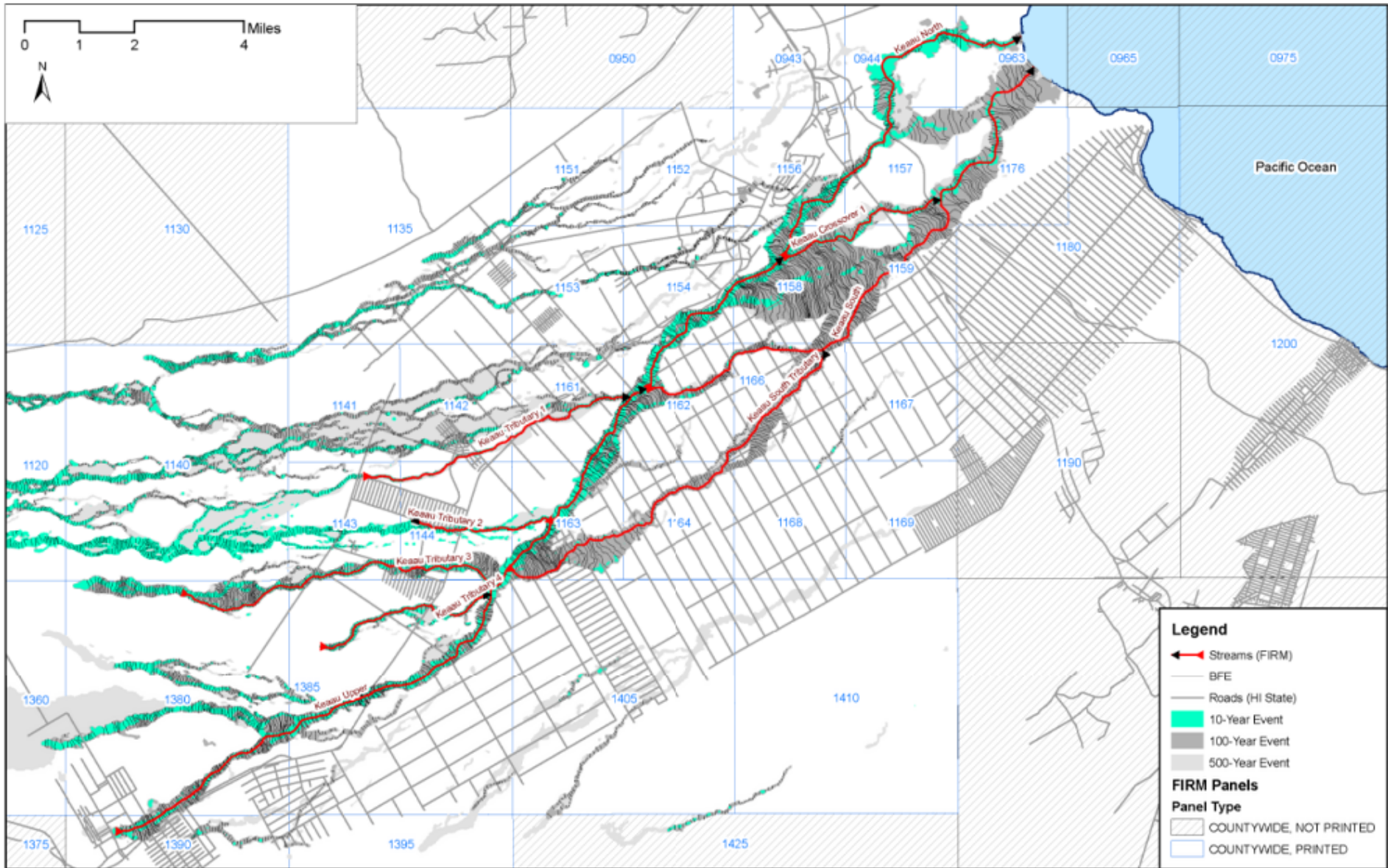
- Waiakea and Upper Palai Stream Flood Study (affected panels: 880, 890)

VIEW ONLINE 

- Keopu-Hienaloli Flood Study (affected panels: 711, 712, 713, 714)







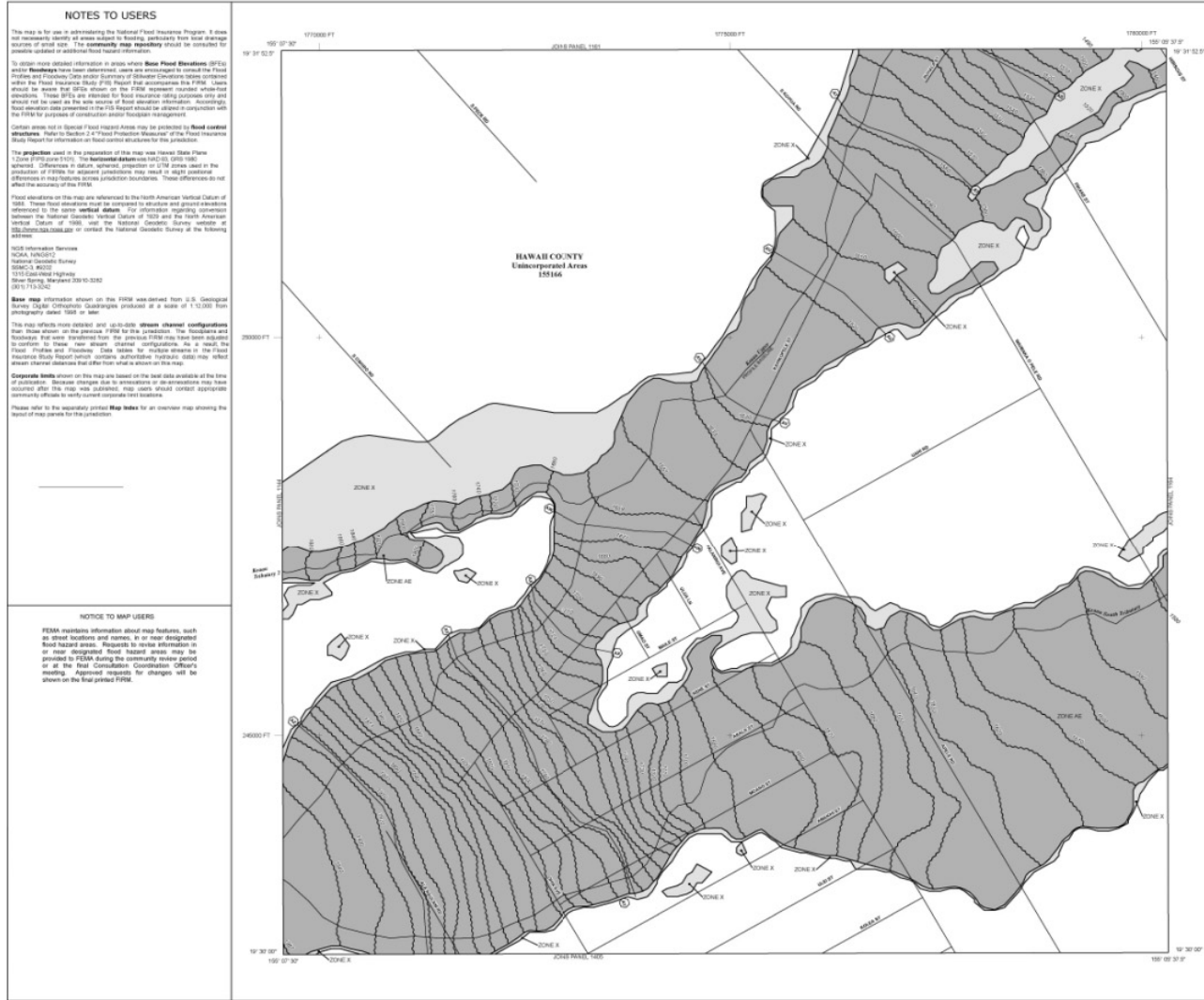
# Draft Puna Flood Study

Metadata | Thumbnails | Annotations

**1163**  
Last Modified  
4/2/2015 2:33:01 PM  
Creation Date  
12/12/2014 1:30:51 PM

**Fields**  
Template: Document Description  
Date  
4/2/2015  
Type  
pdf

Page 1 of 1 PDF View Plain Text 36 in x 25.88 in



**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not constitute a warranty of any kind or a representation of any kind, and it is not intended to be used as a basis for any action or inaction.

To obtain more detailed information in areas where **Special Flood Hazard (SFHA)** areas are designated, please refer to the **Flood Insurance Rate Map (FIRM)**. Users should be aware that SFHAs shown on the FIRM represent modeled water level elevations. These SFHAs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Secondary flood elevation data contained in the FIRM should be obtained in accordance with the FIRM for purposes of construction and flood management.

Center lines and/or labeled flood hazard areas may be projected to **Real estate structures**. Refer to Section 2 of "Flood Protection Manual" of the Flood Insurance Rate Map for information on flood hazard structures for jurisdiction.

The projection used in the preparation of this map was Hawaii State Plane (NAD 83) (Zone 18) (GCS: NAD 83) (Datum: North American Vertical Datum of 1988). For information regarding consistency between the National Geographic Vertical Datum of 1988 and the North American Vertical Datum of 1988, visit the National Geographic website at <http://www.ngs.noaa.gov> or contact the National Geographic Society at the following address:

National Geographic Society  
NGS/A, HANG102  
National Geographic Society  
5255 Loughborough Road  
Washington, DC 20045-1202  
(301) 753-5200

**Base map information shown on the FIRM was derived from U.S. Geological Survey Digital Contour Data produced at a scale of 1:50,000 from photography dated 1989 or later.**

This map reflects more detailed and accurate stream channel configurations than those shown on the previous FIRM for the jurisdiction. The locations and boundaries of these channels were derived from the most recent data available to conform to these new stream channel configurations. As a result, the Flood Hazard and Protection Data shown for channels shown in the Flood Insurance Study Report may contain attributable hydrologic data that reflect stream channel changes that differ from other data shown on this map.

**Coordinate data shown on this map are based on the best data available at the time of publication.** Boundary changes due to annexation or incorporation may have occurred after the map was submitted. Map users should contact appropriate governmental offices to verify correct coordinate data.

Please refer to the secondary printed **Map Index** for an overview map showing the extent of map panels for this jurisdiction.

**NOTICE TO MAP USERS**

FEMA maintains information about map features, such as stream locations and names, in an online management flood hazard area. Requests to review information in or near designated flood hazard areas may be provided to FEMA during the community review period or at the Real Consultation Coordination Officer's meeting. Appropriate requests for changes will be shown on the final printed FIRM.

**LEGEND**

**SPECIAL FLOOD HAZARD AREAS (FIRM SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD)**

- ZONE X** - 1% Annual Chance Flood Hazard Area (Zone X)
- ZONE AE** - 1% Annual Chance Flood Hazard Area (Zone AE)
- ZONE A** - 1% Annual Chance Flood Hazard Area (Zone A)
- ZONE V** - 1% Annual Chance Flood Hazard Area (Zone V)
- ZONE VE** - 1% Annual Chance Flood Hazard Area (Zone VE)

**FLOODING RISKS IN ZONE AE**

See Section 2 of the Flood Insurance Manual for more information on the meaning of the various flood hazard areas and the meaning of the various flood hazard symbols.

**OTHER FLOOD AREAS**

- ZONE B** - 1% Annual Chance Flood Hazard Area (Zone B)
- ZONE C** - 1% Annual Chance Flood Hazard Area (Zone C)
- ZONE D** - 1% Annual Chance Flood Hazard Area (Zone D)
- ZONE E** - 1% Annual Chance Flood Hazard Area (Zone E)
- ZONE F** - 1% Annual Chance Flood Hazard Area (Zone F)
- ZONE G** - 1% Annual Chance Flood Hazard Area (Zone G)
- ZONE H** - 1% Annual Chance Flood Hazard Area (Zone H)
- ZONE I** - 1% Annual Chance Flood Hazard Area (Zone I)
- ZONE J** - 1% Annual Chance Flood Hazard Area (Zone J)
- ZONE K** - 1% Annual Chance Flood Hazard Area (Zone K)
- ZONE L** - 1% Annual Chance Flood Hazard Area (Zone L)
- ZONE M** - 1% Annual Chance Flood Hazard Area (Zone M)
- ZONE N** - 1% Annual Chance Flood Hazard Area (Zone N)
- ZONE O** - 1% Annual Chance Flood Hazard Area (Zone O)
- ZONE P** - 1% Annual Chance Flood Hazard Area (Zone P)
- ZONE Q** - 1% Annual Chance Flood Hazard Area (Zone Q)
- ZONE R** - 1% Annual Chance Flood Hazard Area (Zone R)
- ZONE S** - 1% Annual Chance Flood Hazard Area (Zone S)
- ZONE T** - 1% Annual Chance Flood Hazard Area (Zone T)
- ZONE U** - 1% Annual Chance Flood Hazard Area (Zone U)
- ZONE V** - 1% Annual Chance Flood Hazard Area (Zone V)
- ZONE W** - 1% Annual Chance Flood Hazard Area (Zone W)
- ZONE Y** - 1% Annual Chance Flood Hazard Area (Zone Y)
- ZONE Z** - 1% Annual Chance Flood Hazard Area (Zone Z)

**CONTRAST DRAINAGE RESOURCES SYSTEM (CRS) AREAS**

- CRS AREAS** - Areas where flood hazard is determined by the CRS
- CRS AREAS** - Areas where flood hazard is determined by the CRS

**OTHERWISE PROTECTED AREAS (OPAs)**

- OPAs** - Areas where flood hazard is determined by the CRS
- OPAs** - Areas where flood hazard is determined by the CRS

**MAP SCALE 1" = 100'**

**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM**  
FLOOD INSURANCE RATE MAP  
DISTRICT OF PUNA,  
HAWAII  
AND INCORPORATED AREAS

**PANEL 1163 OF 1940**  
DATE MAP MADE FOR FIRM PANEL LAYOUT:  
COUNTY: HAWAII  
COMMUNITY: PUNA  
FIRM NO.: 1163

**MAP NUMBER 1551661163A**  
**EFFECTIVE DATE**

**Federal Emergency Management Agency**





# Waiakea and Upper Palai Stream Flood Study

Metadata | Thumbnails | Annotations

Waiakea\_LOMR\_sheet2Jan122015

Last Modified  
2/4/2015 3:35:25 PM  
Creation Date  
2/4/2015 3:27:25 PM

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2/4/2015  
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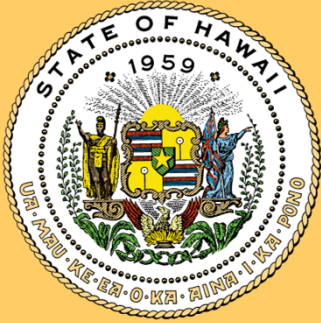
Page 1 of 1 PDF



Document management portal powered by Laserfiche  
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# COMING SOON

## New and Improved Flood Hazard Assessment Tool



# Our NEW FHAT is Coming Soon

State of Hawaii, Department of Land and Natural Resources

## Flood Hazard Assessment Tool

[Home](#)



Search for an address or location

State of Hawaii Flood Hazard Assessment Tool

### OUR NEW WEB SITE IS HERE

Try out our new website. We'd love to hear your feedback.

Use the Current Site

Use the New Site

- Map Layers
- TMK Search
- Stream/Watershed Search
- Letter of Map Change (LOMC)
- Elevation Certificate Generator
- Drawing Tools
- Measure Tools
- NGS Datasheet Tool
- Flood Insurance Studies (FIS)
- Map Legend
- Island Number
- Help

Esri, DeLorme, FAO, IFL, NGA, NOAA, USGS, EPA



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0 30 60mi

-157.684488, 24.051471



**NEW Feature**

# Utilize Online Address Locator

State of Hawaii, Department of Land and Natural Resources  
**Flood Hazard Assessment Tool** [Home](#)

Q 64 Ala Malama Ave, Kaunakakai, Hawaii, USA

Click on the structure or parcel of interest

0190E

Map Layers

- Effective FIRM/DFIRM
  - Honolulu County
  - Maui County
  - Hawaii County
  - Kauai County
- DFIRM Base Layers
  - Stream Cross Sections
  - LOMCs
  - Benchmarks
  - Coastal Transect Lines
- Preliminary DFIRM
  - Maui County
  - Hawaii County
- Historic DFIRM/FIRM
  - Honolulu County DFIRM (1/19/2011)
  - Honolulu County DFIRM (6/2/2005)
  - Maui County DFIRM (9/25/2009)
  - Maui County FIRM (various)
  - Kauai County DFIRM (9/16/2005)
- Other Layers
  - County Parcels (TMKs)
  - Coastal Topography (south shore only)
  - State Regulated Dams

View flood map as: FHAT

Base map: Orthoimagery/FEMA\_Fused

Set Flood Map Layers Transparency

0 10 20 30 40 50 60 70 80 90 100

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157.018396, 21.091612

Or you can still search by a TMK

**TMK Search**

Enter a 9-digit tax map key:

# Parcel Quick View

State of Hawaii, Department of Land and Natural Resources  
**Flood Hazard Assessment Tool**

Home

The screenshot displays the Flood Hazard Assessment Tool interface. At the top, a search bar contains the address "64 Ala Malama Ave, Kaunakakai, Hawaii, USA". The main map area shows a satellite view of a residential area with various streets labeled, including "MAKAENA PL", "MALUOLU PL", "N MOHAKA ST", "ALOHI ST", and "KANI'OI ST". A specific parcel is highlighted with a red box, and a "Parcel Quick View" popup window is open over it, displaying the following information: "(2) 5-3-002:082", "64 Ala Malama St", "Kaunakakai, HI 96748", and a "Click for details" link. To the right of the map is a "Map Layers" panel with several sections: "Effective FIRM/DFIRM" (checked for Honolulu, Maui, Hawaii, and Kauai Counties), "DFIRM Base Layers" (checked for LOMCs, Benchmarks, and Coastal Transect Lines), "Preliminary DFIRM" (checked for Maui and Hawaii Counties), "Historic DFIRM/FIRM" (checked for Honolulu County DFIRM (1/19/2011), Honolulu County DFIRM (6/2/2005), Maui County DFIRM (9/25/2009), Maui County FIRM (various), and Kauai County DFIRM (9/16/2005)), and "Other Layers" (checked for County Parcels (TMKs), Coastal Topography (south shore only), and State Regulated Dams). Below the map layers, there are dropdown menus for "View flood map as:" (set to FHAT) and "Base map:" (with a dropdown menu open showing options: "Orthoimagery/FEMA\_Fused", "FIRM Base Map", "Orthoimagery/FEMA\_Fused", "Esri Imagery", and "No Base Map"). A yellow arrow points to the "Orthoimagery/FEMA\_Fused" option in the dropdown menu. At the bottom of the map, there is a scale bar (0 to 200ft) and coordinates (-157.01, 21.089370). The Esri logo is visible in the bottom right corner of the map area.

**NEW Feature**

Base Map Options Available: FIRM Base Map & FEMA NFHL Base Maps



# Enhanced Features

Parcel Detail ✕

|   |   |   |
|---|---|---|
| <b>Property Details</b>   | <b>Additional Resources</b>   |  |
| <p><b>TMK:</b> (2) 5-3-002:082</p> <p><b>County:</b> Maui</p> <p><b>Watershed:</b> Kamiloloa</p> <p><b>Tsunami Evacuation Zone:</b> Yes</p> <p><b>Dam Evacuation Zone:</b> No</p>   | <p><a href="#">Street View</a></p> <p><a href="#">Real Property Tax Information</a></p> <p><a href="#">FEMA Flood Insurance Study</a></p> <p><a href="#">Flood Insurance Information</a></p> <p><a href="#">Floodplain Management Regulations</a></p> |   |
| <b>Generate FHAT Report</b>   | <b>FIRM Map Panel(s)</b>  |   |
| <p><b>Edit the property address if required:</b></p> <p>64 Ala Malama St</p> <p>Kaunakakai, HI 96748</p> <p><b>Enter a report title (25 character max):</b></p> <p>Report Title (optional)</p> <p><a href="#">Click to download FHAT report</a></p> | <p><b>Click on Panel No. to create FIRMette</b></p> <p><a href="#">1500030190E</a> 09/25/2009</p>   |   |



## Enhanced Features:

- Create an Effective FIRMette
- Street View
- Real Property Tax Information
- Improved FHAT Report Generator
- Flood Insurance Information
- Floodplain Management Regulations



**NEW Feature**

# Create an Effective FIRMette

Parcel Detail

**Property Details**

TMK: (2) 5-3-002:082  
County: Maui  
Watershed: Kamiloloa  
Tsunami Evacuation Zone: Yes  
Dam Evacuation Zone: No

**Additional Resources**

[Street View](#)  
[Real Property Tax Information](#)  
[FEMA Flood Insurance Study](#)  
[Flood Insurance Information](#)  
[Floodplain Management Regulations](#)

**Generate FHAT Report**

**Edit the property address if required:**

64 Ala Malama St  
Kaunakakai, HI 96748

**Enter a report title (25 character max):**


Report Title (optional)

[Click to download FHAT report](#)

**FIRM Map Panel(s)**

Click on Panel No. to create FIRMette

|                             |            |
|-----------------------------|------------|
| <a href="#">1500030190E</a> | 09/25/2009 |
|-----------------------------|------------|



**Letter of Map Change(s)**

| Case No.           | Type | Effective Date | Panel | Flood Source | Project | Download |
|--------------------|------|----------------|-------|--------------|---------|----------|
| No data to display |      |                |       |              |         |          |

Close







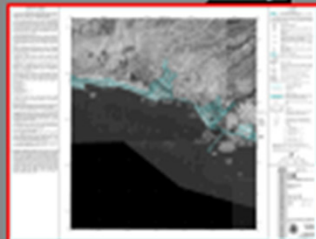
FEMA



Scale: 4 % LOMC: 1



Help

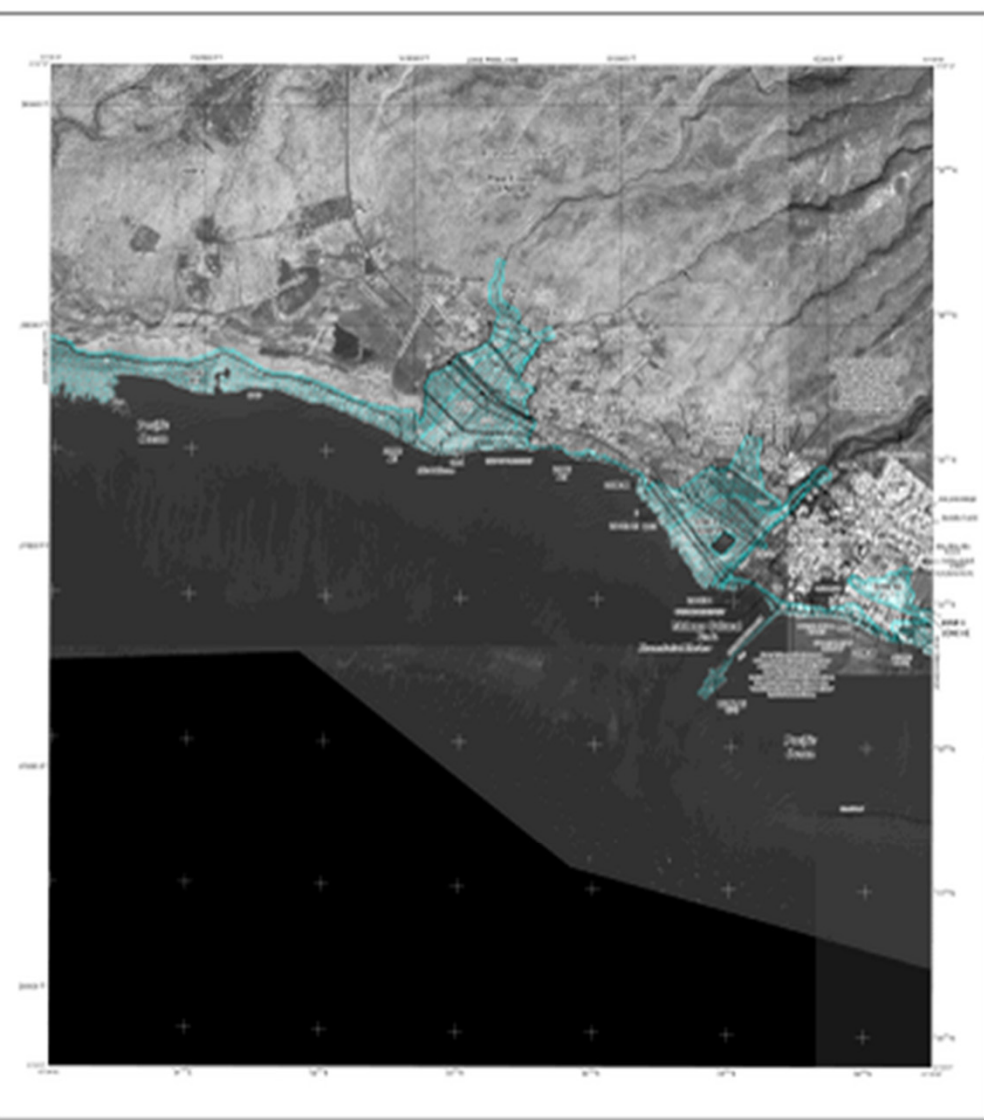


Make a FIRMette

**NOTES TO USERS**

This map is a work of the Federal Emergency Management Agency (FEMA) and is provided for informational purposes only. It is not intended to be used as a basis for any legal action or as a substitute for professional engineering or architectural services. The user assumes all responsibility for the use of this map and any information derived therefrom. FEMA does not warrant the accuracy, completeness, or timeliness of the information contained herein. The user agrees to hold FEMA harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, arising out of or from the use of this map or any information derived therefrom.

**Product Name:** Flood Hazard Map  
**Product Number:** 74322025  
**Product Date:** 09/23/2010  
**Product Version:** 1.0  
**Product Status:** Final  
**Product Type:** Flood Hazard Map  
**Product Category:** Flood Hazard Map  
**Product Subcategory:** Flood Hazard Map  
**Product Description:** This map shows the flood hazard areas for the community of New York, New York, as determined by the National Flood Insurance Program (NFIP). The map is based on the Flood Insurance Study (FIS) for the community, which was completed in 2008. The map shows the Special Flood Hazard Areas (SFHAs) for the community, including the 100-year Flood Hazard Area (A1), the 500-year Flood Hazard Area (A2), and the Unshaded Area (X). The map also shows the community's flood hazard boundary (FHB) and the community's flood hazard boundary extension (FHB-E). The map is intended to be used for informational purposes only and is not intended to be used as a basis for any legal action or as a substitute for professional engineering or architectural services. The user assumes all responsibility for the use of this map and any information derived therefrom.



**LEGEND**

**Special Flood Hazard Areas (SFHAs)**

- A1** 100-Year Flood Hazard Area
- A2** 500-Year Flood Hazard Area
- X** Unshaded Area

**Other Symbols**

- Community Flood Hazard Boundary (FHB)**
- Community Flood Hazard Boundary Extension (FHB-E)**
- Water**
- Land**
- Buildings**
- Streets**
- Roads**
- Railroads**
- Canals**
- Ditches**
- Drainage Canals**
- Levees**
- Dikes**
- Walls**
- Other Structures**

**Scale:** 1" = 100'

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**NEW YORK, NEW YORK**  
**NEW YORK**

**PANEL NO. OF 40**  
**NEW YORK, NEW YORK**  
**NEW YORK, NEW YORK**

**DATE OF STUDY:** 2008  
**DATE OF MAP:** 2010  
**DATE OF REVISION:** 09/23/2010

**DATE OF STUDY:** 2008  
**DATE OF MAP:** 2010  
**DATE OF REVISION:** 09/23/2010

[www.hawaiinfip.org](http://www.hawaiinfip.org)

# Are You Looking for Historic FIRM Maps ??



The State of Hawai'i, DLNR  
**Engineering Division, National Flood  
Insurance Program**

Search this site



Search.USA.gov

[NFIP Home](#) [Wai Halana](#) [Flood Maps](#) [CFM](#) [Publications](#) [Regulatory](#) [Contact Us](#) [Tech Bulletins](#) [NFIP News](#)

[Home](#) » [Flood Maps](#)

## FLOOD MAPS

### FLOOD HAZARD ASSESSMENT TOOL (FHAT)

- [Flood Hazard Assessment Tool \(FHAT\) - Map Viewer](#)
- [How to View Proposed Flood Maps - Video Tutorial](#)

### CREATING FIRMettes

- [How to Find Your FIRM and Make a FIRMette](#)
- [Step-by-Step Guide for Creating Annotated FIRMettes](#)



## RELATED LINKS

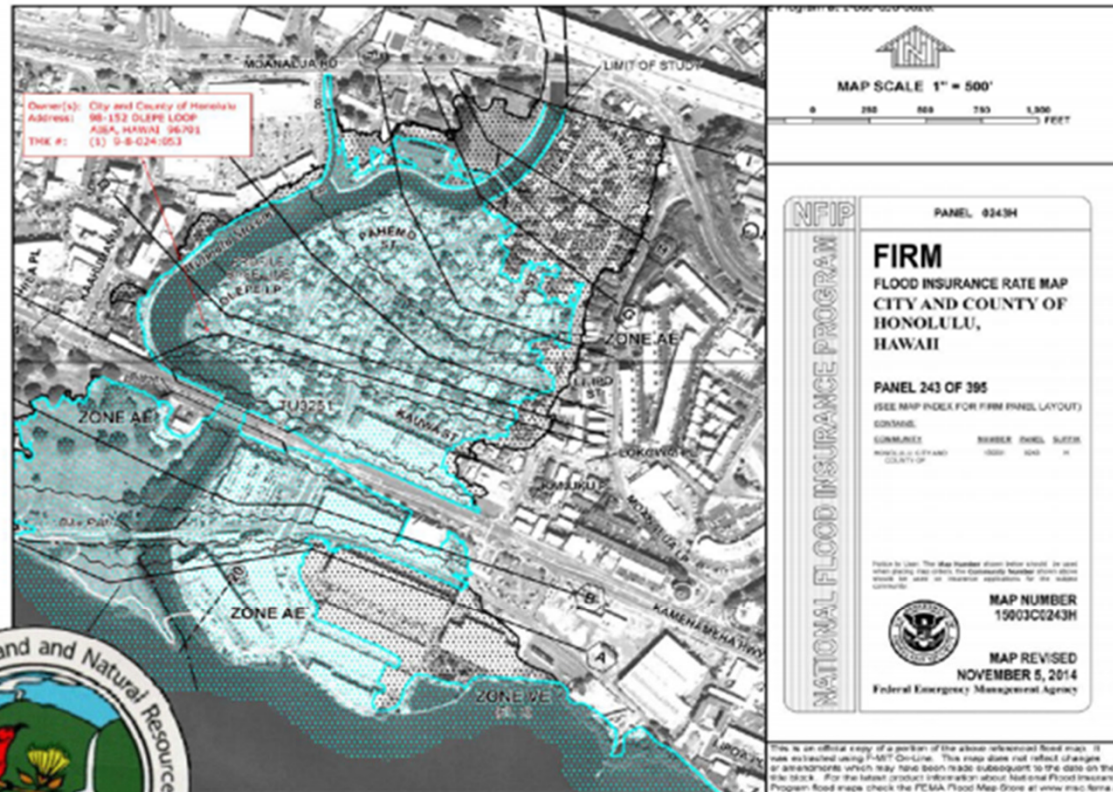
- [DLNR Home](#)
- [DLNR Engineering Home](#)
- [Flood Control & Dam Safety Home](#)
  - [Dam Safety Home](#)
- [Geothermal Home](#)

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First Name



# A Step-by-Step Guide for Creating Annotated Effective and Historic FIRMettes



State of Hawaii, Department of Land and Natural Resources  
 Engineering Division  
[www.hawaiiinfip.org](http://www.hawaiiinfip.org)

January 2015



# Creating an Historic FIRMette

Step 8: Locate the Historic FIRM panel.

Search Results for HONOLULU COUNTY-WIDE

Click [subscribe](#) to receive email notifications when products are updated.

|                                  |
|----------------------------------|
| Effective Products (86) ?        |
| Preliminary Products (0) ?       |
| Pending Product (0) ?            |
| <b>Historic Products (105) ?</b> |
| <b>FIRM Panels (102)</b>         |

Open the "Historic Products" folder

Open the "FIRM Panels" folder and search for the similar map panel number (numeric portion only) as the Effective FIRMette.



Locate the most current dated panel and click on the "VIEW" button.

| Product ID  | Effective Date | LOMC | Size | Download | View |
|-------------|----------------|------|------|----------|------|
| 15003C0115F | 09/30/2004     |      | 91MB |          |      |
| 15003C0180G | 06/02/2005     |      | 75MB |          |      |
| 15003C0183G | 01/19/2011     |      | 15MB |          |      |
| 15003C0185F | 09/30/2004     |      | 81MB |          |      |
| 15003C0192H | 01/19/2011     |      | 16MB |          |      |
| 15003C0195G | 06/02/2005     |      | 1MB  |          |      |
| 15003C0215G | 06/02/2005     |      | 75MB |          |      |
| 15003C0239F | 09/30/2004     |      | 86MB |          |      |
| 15003C0240F | 09/30/2004     |      | 55MB |          |      |
| 15003C0243G | 01/19/2011     |      | 14MB |          |      |
| 15003C0245F | 09/30/2004     |      | 84MB |          |      |
| 15003C0255F | 09/30/2004     |      | 79MB |          |      |
| 15003C0270G | 06/02/2005     |      | 76MB |          |      |
| 15003C0270H | 01/19/2011     |      | 18MB |          |      |
| 15003C0290F | 09/30/2004     |      | 91MB |          |      |
| 15003C0290G | 01/19/2011     |      | 19MB |          |      |
| 15003C0305F | 09/30/2004     |      | 85MB |          |      |
| 15003C0310F | 09/30/2004     |      | 85MB |          |      |

**NEW Feature**

# Street View

Parcel Detail

| Property Details                |                 | Additional Resources                              |   |
|---------------------------------|-----------------|---|---|
| <b>TMK:</b>                     | (2) 5-3-002:082 | <a href="#">Street View</a>                       | <a href="#">Real Property Information</a>   |
| <b>County:</b>                  | Maui            | <a href="#">FEMA Flood Insurance Study</a>        | <a href="#">Flood Insurance Information</a> |
| <b>Watershed:</b>               | Kamiloloa       | <a href="#">Floodplain Management Regulations</a> |   |
| <b>Tsunami Evacuation Zone:</b> | Yes             |   |   |
| <b>Dam Evacuation Zone:</b>     | No              |   |   |

| Generate FHAT Report                                 |  | FIRM Map Panel(s)                     |            |
|--|--|---------------------------------------|------------|
| <b>Edit the property address if required:</b>        |  | Click on Panel No. to create FIRMette |            |
| <input type="text" value="64 Ala Malama St"/>        |  | <a href="#">1500030190E</a>           | 09/25/2009 |
| <input type="text" value="Kaunakakai, HI 96748"/>    |  |                                       |            |
| <b>Enter a report title (25 character max):</b>      |  |                                       |            |
| <input type="text" value="Report Title (optional)"/> |  |                                       |            |
| <a href="#">Click to download FHAT report</a>        |  |                                       |            |

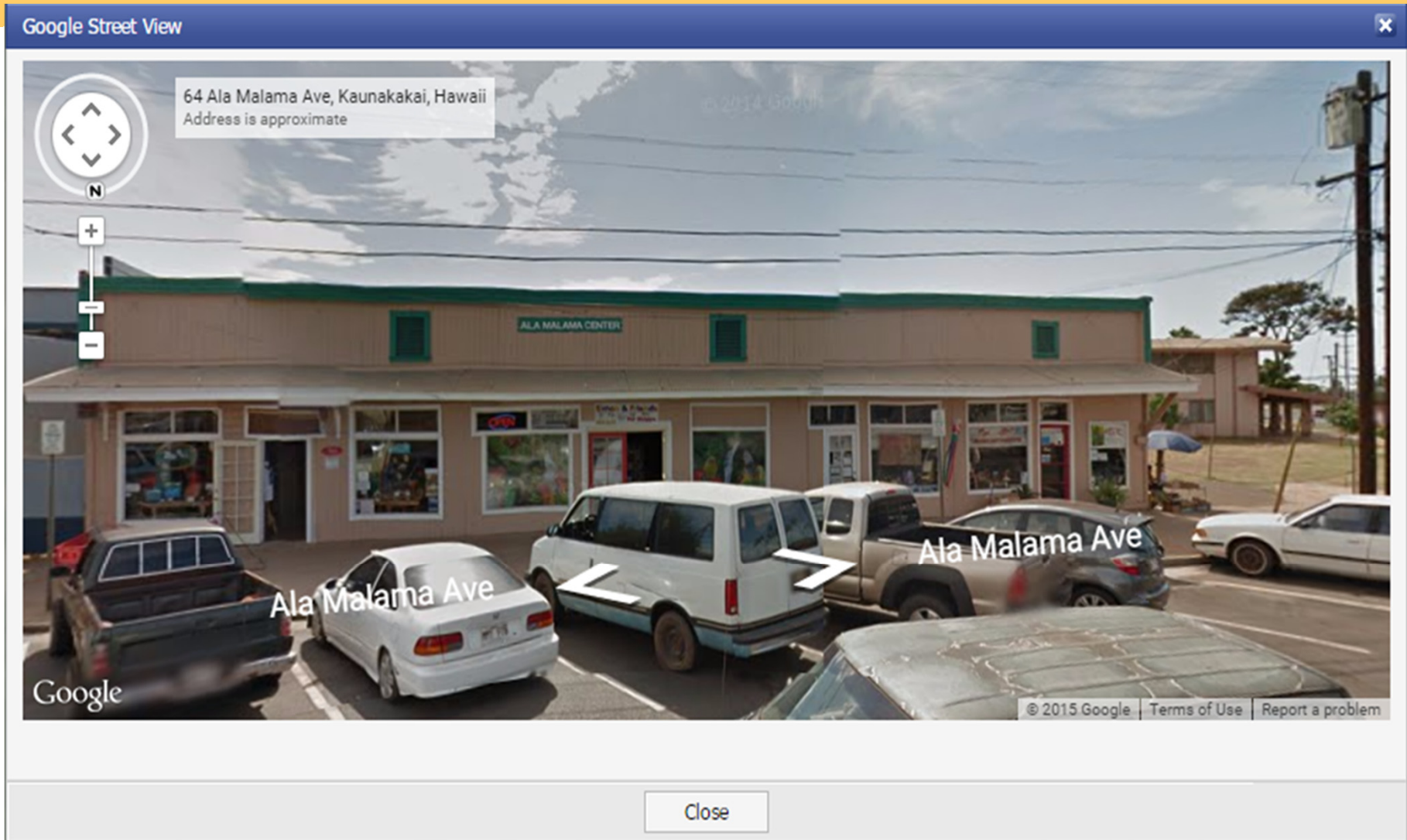
  

| Letter of Map Change(s) |      |                |       |              |         |          |
|-------------------------|------|----------------|-------|--------------|---------|----------|
| Case No.                | Type | Effective Date | Panel | Flood Source | Project | Download |
| No data to display      |      |                |       |              |         |          |



**NEW Feature**

# Street View



**NEW Feature**

# Real Property Tax Information

Parcel Detail

### Property Details

**TMK:** (2) 5-3-002:082  
**County:** Maui  
**Watershed:** Kamiloa  
**Tsunami Evacuation Zone:** Yes  
**Dam Evacuation Zone:** No

### Additional Resources


[Street View](#)  
[Real Property Tax Information](#)  
[FEMA Flood Insurance Study](#)  
[Flood Insurance Information](#)  
[Floodplain Management Regulations](#)

### Generate FHAT Report

**Edit the property address if required:**  
64 Ala Malama St  
Kaunakakai, HI 96748  
**Enter a report title (25 character max):**  
Report Title (optional)  
[Click to download FHAT report](#)

### FIRM Map Panel(s)

**Click on Panel No. to create FIRMette**  
[1500030190E](#) 09/25/2009



### Letter of Map Change(s)

| Case No.           | Type | Effective Date | Panel | Flood Source | Project | Download |
|--------------------|------|----------------|-------|--------------|---------|----------|
| No data to display |      |                |       |              |         |          |

Close



**NEW Feature**

# Real Property Tax Information

qpublic9.qpublic.net/hi\_maui\_display.php?KEY=530020820000



[Recent Sales in Neighborhood](#)     [Recent Sales in Area](#)     [Previous Parcel](#)     [Next Parcel](#)     [Return to Main Search Page](#)     [Maui Home](#)

| Owner and Parcel Information                  |                  |               |                                 |
|---|------------------|---------------|---------------------------------|
| Owner Name                                    |                  | Today's Date  | July 9, 2015                    |
| Mailing Address                               |                  | Parcel Number | 530020820000                    |
| Location Address                              | 64 ALA MALAMA ST | Parcel Map    | <a href="#">Show Parcel Map</a> |
| Neighborhood Code                             | 5311-3           | Land Area     | 11088 Square Feet               |
| Legal Information                             |                  | Parcel Note   |                                 |
| <a href="#">Generate Owner List By Radius</a> |                  |               |                                 |

| Assessment Information |            |                   |                         |                     |                |                      |                       |                         |  |
|------------------------|------------|-------------------|-------------------------|---------------------|----------------|----------------------|-----------------------|-------------------------|--|
| Year                   | Tax Class  | Market Land Value | Agricultural Land Value | Assessed Land Value | Building Value | Total Assessed Value | Total Exemption Value | Total Net Taxable Value |  |
| 2015                   | COMMERCIAL | \$ 140,000        | \$ 0                    | \$ 140,000          | \$ 106,900     | \$ 246,900           | \$ 0                  | \$ 246,900              |  |

| Current Tax Bill Information |                   |                   |                  |             |           |         |          |         |            |  |
|------------------------------|-------------------|-------------------|------------------|-------------|-----------|---------|----------|---------|------------|--|
| Tax Period                   | Description       | Original Due Date | Taxes Assessment | Tax Credits | Net Tax   | Penalty | Interest | Other   | Amount Due |  |
| 2015-1                       | Real Property Tax | 08/20/2015        | \$ 814.77        | \$ 0.00     | \$ 814.77 | \$ 0.00 | \$ 0.00  | \$ 0.00 | \$ 814.77  |  |
| 2015-2                       | Real Property Tax | 02/22/2016        | \$ 814.77        | \$ 0.00     | \$ 814.77 | \$ 0.00 | \$ 0.00  | \$ 0.00 | \$ 814.77  |  |

Tax bill is computed to 07/31/2015

| Commercial Improvement Information |               |                 |            |                |             |                         |                                   |            |  |
|------------------------------------|---------------|-----------------|------------|----------------|-------------|-------------------------|-----------------------------------|------------|--|
| Building Number                    | Building Type | Structure       | Year Built | Eff Year Built | % Complete  | Building Square Footage | Sketch                            | Value      |  |
| 1                                  |               | COMMER FRAME C1 | 1935       |                | 100 %       | 3,786                   | <a href="#">Sketch Building 1</a> | \$ 106,900 |  |
| Section                            | Floor #       | Area            | Perimeter  | Usage          | Wall Height | Exterior Wall           | Construction                      |            |  |
| 1                                  | 01            | 3686            | 294        | RETAIL STORE   | 10          | SIDING OVR STUDS/WD     | WOOD/LT STEEL FRAME               |            |  |
| 1                                  | 02            | 100             | 50         | RETAIL STORE   | 8           | SIDING OVR STUDS/WD     | WOOD/LT STEEL FRAME               |            |  |

| Accessory Information                                 |             |                  |            |                  |       |
|---|-------------|------------------|------------|------------------|-------|
| Building Number                                       | Description | Dimensions/Units | Year Built | Percent Complete | Value |
| No accessory information associated with this parcel. |             |                  |            |                  |       |

| Sales Information |       |              |                 |                            |               |             |              |                 |  |
|-------------------|-------|--------------|-----------------|----------------------------|---------------|-------------|--------------|-----------------|--|
| Sale Date         | Price | Instrument # | Instrument Type | Valid Sale or Other Reason | Document Type | Record Date | Land Court # | Land Court Cert |  |
| 04/07/1993        | \$ 0  | 0000000000   | Fee conveyance  |                            |               | 04/22/1993  | 2017113      | 412254          |  |

| Permit Information |               |                 |               |
|--------------------|---------------|-----------------|---------------|
| Date               | Permit Number | Reason          | Permit Amount |
| 12/04/2008         | B20081878     | Other see notes | \$ 20,000     |





Improved Capabilities

# Generate FHAT Report

Parcel Detail

### Property Details

**TMK:** (2) 5-3-002:082  
**County:** Maui  
**Watershed:** Kamiloloa  
**Tsunami Evacuation Zone:** Yes  
**Dam Evacuation Zone:** No

### Additional Resources

[Street View](#)  
[Real Property Tax Information](#)  
[FEMA Flood Insurance Study](#)  
[Flood Insurance Information](#)  
[Floodplain Management Regulations](#)

### Generate FHAT Report


**Edit the property address if required:**  
64 Ala Malama St (UNIT C)  
Kaunakakai, HI 96748

**Enter a report title (25 character max):**  
My Grandma's Store

[Click to download FHAT report](#)

### FIRM Map Panel(s)

Click on Panel No. to create FIRMette  
[1500030190E](#) 09/25/2009



### Letter of Map Change(s)

| Case No.           | Type | Effective Date | Panel | Flood Source | Project | Download |
|--------------------|------|----------------|-------|--------------|---------|----------|
| No data to display |      |                |       |              |         |          |

Close



# New FHAT Report Layout



## Flood Hazard Assessment Report

www.hawaiiifip.org

My Grandma's Store

### Property Information

COUNTY: MAUI  
 TMK NO: (2) 5-3-002:082  
 WATERSHED: KAMILOLOA  
 PARCEL ADDRESS: 64 ALA MALAMA ST (UNIT C)  
 KAUINAKAKAI, HI 96748

### Notes:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Flood Hazard Information

FIRM INDEX DATE: SEPTEMBER 19, 2012  
 LETTER OF MAP CHANGE(S): NONE  
 FEMA FIRM PANEL: 1500030190E  
 PANEL EFFECTIVE DATE: SEPTEMBER 25, 2009

THIS PROPERTY IS WITHIN A TSUNAMI EVACUATION ZONE: YES  
 FOR MORE INFO, VISIT: <http://www.scd.hawaii.gov/>

THIS PROPERTY IS WITHIN A DAM EVACUATION ZONE: NO  
 FOR MORE INFO, VISIT: <http://dlr.eng.hawaii.gov/dam/>



*Disclaimer: The Hawaii Department of Land and Natural Resources (DLNR) assumes no responsibility arising from the use, accuracy, completeness, and timeliness of any information contained in this report. Viewers/Users are responsible for verifying the accuracy of the information and agree to indemnify the DLNR, its officers, and employees from any liability which may arise from its use of its data or information.*

*If this map has been identified as 'PRELIMINARY', please note that it is being provided for informational purposes and is not to be used for flood insurance rating. Contact your county floodplain manager for flood zone determinations to be used for compliance with local floodplain management regulations.*

### FLOOD HAZARD ASSESSMENT TOOL LAYER LEGEND

(Note: legend does not correspond with NFPL)

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD:** The 1% annual chance flood (100-year), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. SFHAs include Zone A, AE, AH, AO, V, and VE. The Base Flood Elevation (BFE) is the water surface elevation of the 1% annual chance flood. Mandatory flood insurance purchase applies in these zones:

|  |  |
|--|--|
|  | Zone A: No BFE determined.   |
|  | Zone AE: BFE determined.   |
|  | Zone AH: Flood depths of 1 to 3 feet (usually areas of ponding); BFE determined.   |
|  | Zone AO: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.   |
|  | Zone V: Coastal flood zone with velocity hazard (wave action); no BFE determined.  |
|  | Zone VE: Coastal flood zone with velocity hazard (wave action); BFE determined.  |
|  | Zone AEF: Floodway areas in Zone AE. The floodway is the channel of stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without increasing the BFE. |

**NON-SPECIAL FLOOD HAZARD AREA** - An area in a low-to-moderate risk flood zone. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.

|  |   |
|--|---|
|  | Zone XS (X shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. |
|  | Zone X: Areas determined to be outside the 0.2% annual chance floodplain.   |

### OTHER FLOOD AREAS

|  |  |
|--|--|
|  | Zone D: Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase apply, but coverage is available in participating communities. |
|--|--|



Existing Feature

# FEMA Preliminary DFIRMs

State of Hawaii, Department of Land and Natural Resources  
Flood Hazard Assessment Tool

Home

64 Ala Malama Ave, Kaunakakai, Hawaii, USA

Parcel Quick View

- (2) 5-3-002:082
- 64 Ala Malama St
- Kaunakakai, HI 96748
- [Click for details...](#)

Map Layers

- Effective FIRM/DFIRM
  - Honolulu County
  - Maui County
  - Hawaii County
  - Kauai County
- DFIRM Base Layers
  - Stream Cross Sections
  - LOMCs
  - Benchmarks
  - Coastal Transect Lines
- Preliminary DFIRM**
  - Maui County
  - Hawaii County
- Historic DFIRM/FIRM
  - Honolulu County DFIRM (1/19/2011)
  - Honolulu County DFIRM (6/2/2005)
  - Maui County DFIRM (9/25/2009)
  - Maui County FIRM (various)
  - Kauai County DFIRM (9/16/2005)
- Other Layers
  - County Parcels (TMKS)
  - Coastal Topography (south shore only)
  - Tsunami Evacuation Zones
  - State Regulated Dams

View flood map as: FHAT

Base map: Orthoimagery/FEMA\_Fused

Set Flood Map Layers Transparency

TMK Search

Stream/Watershed Search

Letter of Map Change (LOMC)

Elevation Certificate Generator

Drawing Tools

Measure Tools

NGS Datasheet Tool

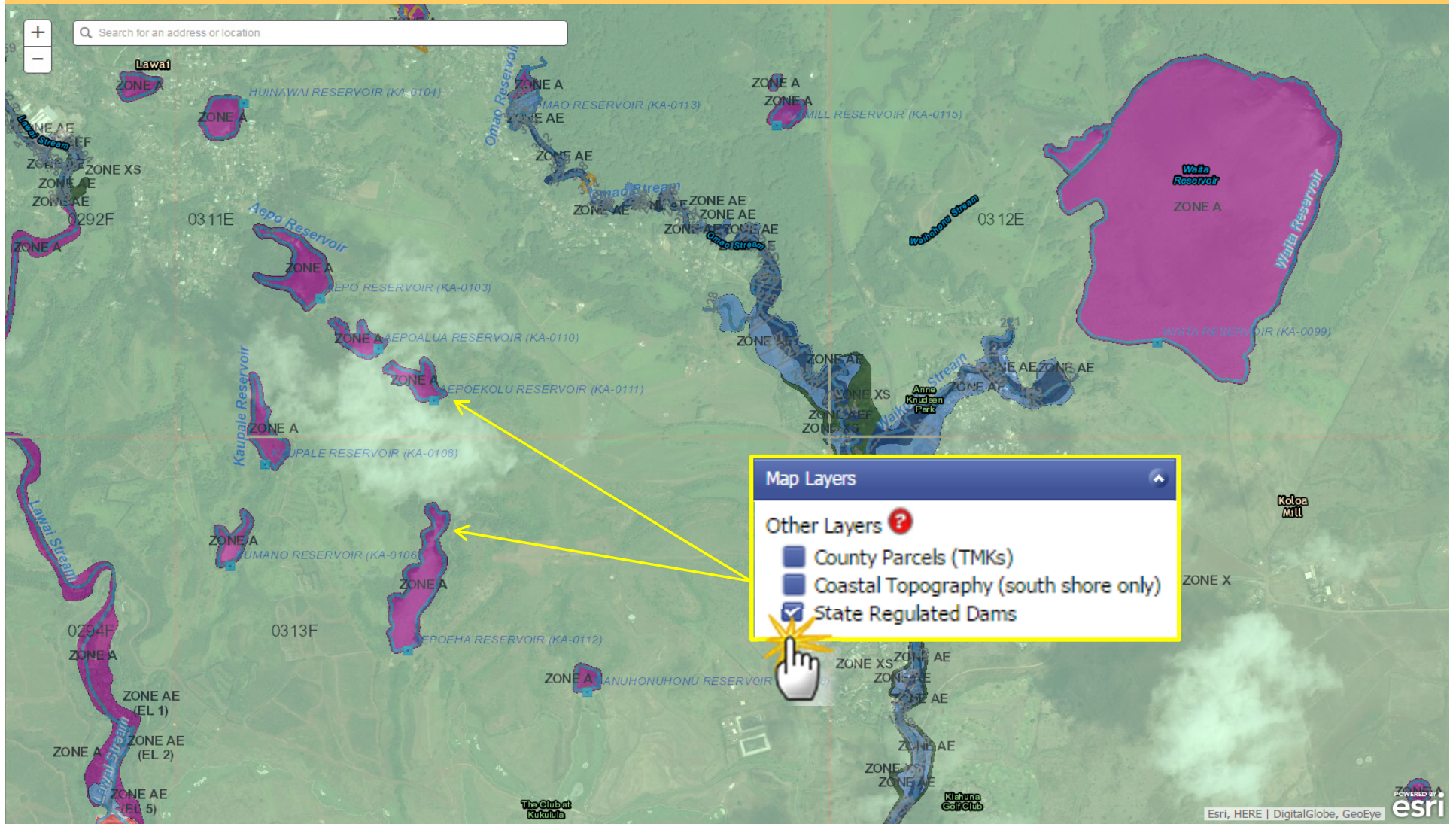
Flood Insurance Studies (FIS)

Map Legend

Island Number



# NEW Layer State Regulated Dams



**NEW Feature**

# Search by Watershed or Stream

The screenshot displays a GIS application interface. At the top left, there is a search bar with a magnifying glass icon and the text "Search for an address or location". Below the search bar are zoom in (+) and zoom out (-) buttons. The main map area shows a topographic map of a region with various flood zones labeled, such as "ZONE A", "ZONE X", "ZONE AE", "ZONE XS", and "ZONE VE". A specific area is highlighted with a cyan dotted pattern and labeled "Hanapepe Watershed". A search panel is overlaid on the right side of the map, titled "Stream/Watershed Search". This panel has two sections: the first section is for selecting a county, with "Kauai" selected in a dropdown menu; the second section is for selecting a stream, with an empty dropdown menu. Below these are "Search" and "Clear" buttons. An "OR" separator is present. The second section also has a dropdown menu for selecting a watershed, with "Hanapepe" selected and highlighted by a hand cursor icon. Other watershed options listed include Hanamaulu, Hikimoe, Hoha, Honopu, Honuaula, and Hoolulu. At the bottom of the map, there is a copyright notice: "Esri, © OpenStreetMap contributors, HERE, DeLorme, METI/NASA, USGS, EPA, USDA".



Improved Feature

# Letter of Map Changes

Letter of Map Changes for Honolulu County

| Case No.    | Type     | Effective Date | Panel | Flood Source                      | Project  | Zoom                 | Download                 |
|-------------|----------|----------------|-------|-----------------------------------|--|----------------------|--------------------------|
| 15-09-1983A | LOMR-F   | 6/26/2015      | 0366F | (All)                             | Lot 4 & 5A, Map 1 and 2, 1812 Kalakaua Avenue, TMK (1) 2-3-034:027                                   | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-1320A | LOMR-FW  | 5/22/2015      | 0352F | (Blanks)                          | Lot 47, 1810 Alu Place, TMK (1) 1-3-033:047  | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-1218A | LOMA     | 6/5/2015       | 0270J | (Non blanks)                      | Lot 91, Halekauwila Farms, 45-556 Pahia Road, TMK (1) 4-5-021:024                                    | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 14-09-4545A | LOMA-OAS | 1/6/2015       | 0290H | 0015F                             | Lot 1375, Map 361, 557 Olomana Street, TMK (1) 4-3-067:017   | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-1049A | LOMA     | 3/12/2014      | 0290H | 0020F                             | Lot 861, Map 208, 450 Hinano Way, TMK (1) 4-3-064:005  | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-1043A | LOMA     | 3/12/2014      | 0290H | 0030G                             | 602A Kawainui Street, TMK (1) 4-3-059:068  | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-0884A | LOMA     | 2/24/2015      | 0388G | 0045H                             | Lot 157, Map 10, 340 Nenu Street, TMK (1) 3-6-008:018  | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-0535A | LOMA     | 1/8/2015       | 0020F | 0085F                             | Lot 348, Map 50, 58-110 Kaunala Street, TMK (1) 5-8-004:017  | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 15-09-0491A | LOMA-OAS | 1/8/2015       | 0290H | 0105H                             | Lot 1385, Map 361, 603A Olomana Street, TMK (1) 4-3-067:022  | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 14-09-4243A | LOMA     | 11/6/2014      | 0369H | Wailupe Stream                    | Lot 11, Block 2, Waiialae Neighborhood Subdivision Tract A, 1178 Hunakai Street, TMK (1) 3-5-015:042 | <a href="#">Zoom</a> | <a href="#">Download</a> |
| 14-09-0183A | LOMA-OAS | 10/29/2013     | 0105H | Pacific Ocean                     | Lot 378, Map 31, 67-432 Alahaka Street, TMK (1) 6-7-006:037  | <a href="#">Zoom</a> | <a href="#">Download</a> |
|             |          |                |       | Ponding                           |  |                      |                          |
|             |          |                |       | Sheetflow                         |  |                      |                          |
|             |          |                |       | Kaukonahua Stream, Kii Kii Stream |  |                      |                          |

Page 1 of 3 (101 items) < Prev 1 2 3 Next > Page size: 50

Close



Existing Feature

# Elevation Certificate Generator

### Elevation Certificate Generator

An **Elevation Certificate (EC)** can be initiated from this panel by following the steps below. Before starting, ensure the **IMAGERY** base map is selected using the **MAP LAYERS** panel above.

- Click on the compass icon below, then click in the map on the center of the front of the desired building in the image.

Latitude: 22.048396  
Longitude: -159.335554

- Verify the property address below and revise as necessary.

Active Parcel TMK: (4) 4-1-003:007

04-241 Kuhio Hwy

Kapaa HI 96746

- Click **Download EC** to download the initiated Elevation Certificate. Click **Default Map Tool** to reset map click to default behavior.

[Download EC](#)



### ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008  
 Expiration Date: July 31, 2015

| SECTION A - PROPERTY INFORMATION  |             | FOR INSURANCE COMPANY USE   |             |
|---|-------------|---|-------------|
| A1. Building Owner's Name   |             | Policy Number:  |             |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>04-241 KUHIU HWY |             | Company NAIC Number:  |             |
| City<br>KAPAA   | State<br>HI | ZIP Code<br>96746   |             |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>(4) 4-1-003:007           |             |   |             |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)  |             |   |             |
| A5. Latitude/Longitude: Lat. 22.048396  |             | Long. -159.335554   |             |
| Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983                          |             |   |             |
| A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.             |             |   |             |
| A7. Building Diagram Number   |             |   |             |
| A8. For a building with a crawspace or enclosure(s):  |             | A9. For a building with an attached garage:   |             |
| a) Square footage of crawspace or enclosure(s)  | _____ sq ft | a) Square footage of attached garage  | _____ sq ft |
| b) No. of permanent flood openings in the crawspace or enclosure(s) within 1.0 foot above adjacent grade                  | _____       | b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade | _____       |
| c) Total net area of flood openings in A8.b   | _____ sq in | c) Total net area of flood openings in A9.b   | _____ sq in |
| d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No                                    |             | d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No            |             |

| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION   |                 |                                     |  |                     |   |
|---|-----------------|-------------------------------------|--|---------------------|---|
| B1. NFP Community Name & Community Number<br>KAUAI COUNTY - 150002  |                 | B2. County Name<br>KAUAI COUNTY     |  | B3. State<br>HAWAII |   |
| B4. Map/Panel Number<br>0212  | B5. Suffix<br>F | B6. FIRM Index Date<br>NOV 26, 2010 | B7. FIRM Panel Effective/Revised Date<br>NOVEMBER 26, 2010 | B8. Flood Zone(s)   | B9. Base Flood Elevation(s) (Zone AO, use base flood depth) |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B9:<br><input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____  |                 |                                     |  |                     |   |
| B11. Indicate elevation datum used for BFE in item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____   |                 |                                     |  |                     |   |
| B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Designation Date: ____/____/____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA |                 |                                     |  |                     |   |

| SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)   |   |
|--|---|
| C1. Building elevations are based on: <input type="checkbox"/> Construction Drawings* <input type="checkbox"/> Building Under Construction* <input type="checkbox"/> Finished Construction<br>*A new Elevation Certificate will be required when construction of the building is complete.   |   |
| C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete items C2.a-h below according to the building diagram specified in item A7. In Puerto Rico only, enter meters.<br>Benchmark Utilized: _____ Vertical Datum: _____<br>Indicate elevation datum used for the elevations in items a) through h) below. <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____<br>Datum used for building elevations must be the same as that used for the BFE. |   |
| Check the measurement used.  |   |
| a) Top of bottom floor (including basement, crawspace, or enclosure floor)   | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor  | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only)  | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab)   | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)   | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG)   | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG)  | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support   | _____ <input type="checkbox"/> feet <input type="checkbox"/> meters |

| SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION  |                |   |          |
|---|----------------|---|----------|
| This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. |                |   |          |
| <input type="checkbox"/> Check here if comments are provided on back of form.   |                | Were latitude and longitude in Section A provided by a licensed land surveyor? <input type="checkbox"/> Yes <input type="checkbox"/> No |          |
| <input type="checkbox"/> Check here if attachments.   |                |   |          |
| Certifier's Name  | License Number |   |          |
| Title   | Company Name   |   |          |
| Address   | City           | State   | ZIP Code |
| Signature   | Date           | Telephone   |          |

PLACE  
SEAL  
HERE

The EC Generator will pre-fill the form with the property address, TMK, and FIRM panel information.





# NEW Feature Drawing Tools

The screenshot displays a mapping application interface. At the top left, a search bar contains the address "1151 Punchbowl St, Honolulu, Hawaii, USA". The map shows an aerial view of a city area with several buildings and streets. Three red dots are placed on the map, each with a text label: "My Parking Lot" (top center), "My Office" (bottom center), and "Koi Lunch Wagon" (middle right). A yellow box highlights the "Drawing Tools" panel on the right side of the map. This panel includes a "Place Text:" input field, a grid of drawing tools (text, line, circle, square, rectangle, and polygon), and two buttons: "Clear Map" and "Default Map Tool". Yellow arrows point from the drawing tools to the corresponding red dots on the map.



Improved Feature

# Measure Tool

The screenshot displays a web mapping application interface. At the top left, there is a search bar containing the text "1151 Punchbowl St, Honolulu, Hawaii, USA". Below the search bar are zoom in (+) and zoom out (-) buttons. The main map area shows an aerial view of a city with several buildings and streets. A blue line is drawn across the map, connecting a green pin labeled "My Office" to another green pin labeled "Koi Lunch Wagon". A red pin labeled "My Parking Lot" is also visible. A yellow callout box in the upper right corner, titled "Measure Tools", contains icons for various measurement functions and a dropdown menu set to "Feet". Below this is a "Measurement Result" section displaying "659.2 Feet". At the bottom of the callout are two buttons: "Clear Map" and "Default Map Tool". A yellow arrow points from the "Koi Lunch Wagon" pin to the "Measurement Result" section. The map includes street names such as ALAKEA, RICHARDS ST, S BERETAMA ST, LAUHALA ST, LISBON ST, LUNALILO ST, and KINAU ST. The text "ZONE X" and "0362G" are also visible on the map. In the bottom right corner of the map, there is a "POWERED BY" logo for "USGS esri".



Existing Feature

# NGS Datasheet Tool

The screenshot displays a web-based mapping application. At the top left, there is a search bar with the placeholder text "Search for an address or location". The main map area shows an aerial view of Waimanalo, Hawaii, with various flood zones overlaid in different colors: Zone X (green), Zone AE (blue), Zone VE (EL 3) (red), and Zone XS (dark green). A yellow circle highlights a benchmark labeled "TU0251" on the map. A hand cursor is positioned over this benchmark. On the right side, there are two panels. The top panel, titled "Map Layers", lists several layers: "DFIRM Base Layers", "Stream Cross Sections", "LOMCs", "Benchmarks" (which is checked and highlighted in yellow), and "Coastal Transect Lines". The bottom panel, titled "NGS Datasheet Tool", contains the text: "What is a Datasheet", "To retrieve the NGS Datasheet for a benchmark, toggle on the BENCHMARK layer to display the benchmarks. Click the tool below to activate the benchmark identify, then click on the yellow X next to the PID of interest to launch the datasheet.", and a small circular icon with a yellow 'X' inside.



Existing Feature

# NGS Datasheet Tool

Search for an address or location

www.ngs.noaa.gov/cgi-bin/ds\_mark.prl?PidBox=TU0251

## The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.7  
1 National Geodetic Survey, Retrieval Date = JULY 10, 2015

TU0251 \*\*\*\*\*

TU0251 DESIGNATION - L 13  
TU0251 PID - TU0251  
TU0251 STATE/COUNTY- HI/HONOLULU  
TU0251 COUNTRY - US  
TU0251 USGS QUAD - WAIPAHU (1983)

TU0251  
TU0251 \*CURRENT SURVEY CONTROL

|         |                                     |                |     |             |        |          |
|---------|-------------------------------------|----------------|-----|-------------|--------|----------|
| TU0251* | NAD 83(1986) POSITION-              | 21 23 10.9     | (N) | 157 57 07.8 | (W)    | HD_HELD2 |
| TU0251* | <a href="#">LMSL</a> ORTHO HEIGHT - | 4.035 (meters) |     | 13.24       | (feet) | ADJ UNCH |

TU0251  
TU0251 GEOID HEIGHT - 15.59 (meters) GEOID12B  
TU0251 VERT ORDER - FIRST CLASS II

TU0251  
TU0251.The horizontal coordinates were established by autonomous hand held GPS  
TU0251.observations and have an estimated accuracy of +/- 10 meters.  
TU0251.  
TU0251.The orthometric height was key entered from printed documents  
TU0251 and not key verified.  
TU0251

Map labels: ZONE X, ZONE VE (EL 3), ZONE AE, NEAL S. BLAUDEL PARK, LOKOWAI PL, KANUKU PL

POWERED BY esri



# Wai Halana Newsletter

www.hawaiinfip.org

JULY 2015

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## Wai Halana

*Hawaii Flood News*

DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION



### How Federally Subsidized Flood Insurance Can Artificially Increase the Value of Risky Homes



By Beth Daley, Senior Investigative Reporter and Senior Trainer at the New England Center for Investigative Reporting. (Author approved republication of her original June 15, 2015 article in the Wai Halana)

It's a central question as sea levels rise, storms become more intense, and coastal property damage skyrockets: Why do people keep rebuilding along the coast?

A recent study led by University of Massachusetts Dartmouth professor Chad McGuire tackled that question statistically. By analyzing more than 57,000 Massachusetts properties insured by the federally backed National Flood Insurance Program (NFIP), McGuire and his colleagues found that wealthy communities, on average, paid less for flood insurance than poorer communities. The findings are counter-intuitive because public policy experts expect more expensive properties to be charged more for insurance.

So I quizzed McGuire by e-mail to find out more. Here is an edited version of our Q-and-A:

**Daley:** What are some possible reasons for more expensive properties paying less for flood insurance?

**McGuire:** The history of the National Flood Insurance Program has a lot to do with it, particularly in older coastal communities like Massachusetts. Because many coastal communities had homes that existed before the NFIP program began, many of those homes have received the most generous subsidies for flood insurance. From an economic perspective, paying less for flood insurance can help increase the value of the home because the costs of insurance are artificially lowered. Since many of these homes were originally built right along the coastline, and because we tend to desire coastal properties, there is generally higher demand for these properties. All of this plays into the home being more expensive, but paying proportionately less for flood insurance.

**Daley:** What do lower premiums signal to an individual homeowner in ham's way?

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