

Aloha Safe Homes – Whole Community Project

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Major Partners

- 1) **Department of Land & Natural Resources – Engineering Division – Flood Insurance Program**
- 2) **Department of Land & Natural Resources Division of Boating & Ocean Recreation**
- 3) **Honolulu Association of Insurance Professionals**
- 4) **Maui Emergency Management Agency**
- 5) **Hawaii Public Library System**

Aloha Safe Homes Whole Community

Goal – *Prepare the Whole Community to reduce risk to life and property. **Change behavior over time** so a greater percentage of people understand hazard science, gather emergency supplies, make scientific evacuation plans, harden their home, get insurance and help others.*



DR-4510-HI, Project Number 0908

FEMA -RFI#2

University of Hawaii – Sea Grant Program

Aloha Safe Homes Whole Community

November 10, 2023

Abstract

Answers to RFI #2



Kelsey Yamanaka

Kelsey.a.yamanaka@hawaii.gov

Proactive (1.)



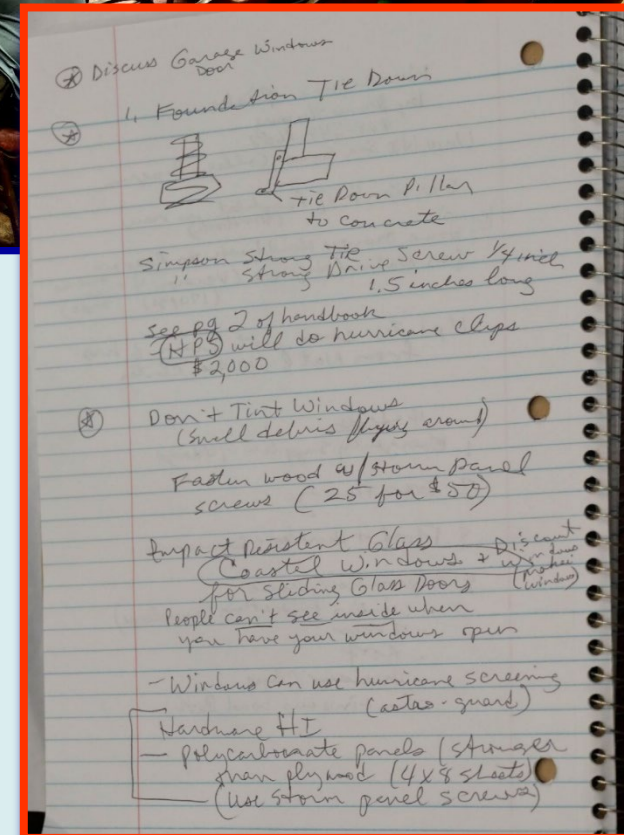
**Attend Seminar on Hazard Preparedness and
Strengthening Home**



4 attendees taking pictures with smart phone of need to hold wind envelope.

PROACTIVE PEOPLE CAN RECEIVE DETAILED INFORMATION!!!

Notes by attendee on foundation upgrade retrofits, adding hurricane clips, window protection options & contractors.



More Proactive People (cont.)



Kaneohe Mom - Protect home and families – so make it strong



H1 Clips - Roof to Wall Tie - Stronger than Code.

University Professor – May 4, 2020 “I am sending you pictures of hurricane clips and window protection that were installed. I never would have known why to do this or how if it were not for the Handbook.”

Mililani homeowner-roof to wall ties, window protection, doors, garage, roofing reinforced & emergency supplies. If an event, will shelter over 20 relatives. Convinced 6 neighbors to retrofit with hurricane clips and window protection. 3 generators for his house and neighbors who are on medical equipment.

~7,500 Homes Retrofitted with hurricane clips and/or window protection. Primarily through education awareness. No requirement, no grant.





Proactive

Citizen Emergency
Response Teams (CERT)

These People Help
Others

Hawaii Hazards Awareness & Resilience Program (HHARP)



Receptive – Open to the message if proper setting and materials provided



Unreceptive



© Associated Press Photo



Unreceptive

1. Does not think event will happen, or not that bad or not worth the time and effort.
2. Will not collect Emergency Supplies.
3. Will rush to store during a watch or warning for food, water and gas.
4. No science-based evacuation plan for tsunami or hurricane.
5. No hurricane/flood insurance – putting in double jeopardy.
6. Hard to reach. Do not attend emergency fairs, seminars, workshops.
7. Large part of population

A MAJOR TARGET OF THIS STRATEGY

The Whole Community Project attempts to reach **all** community members through different forms of education/outreach. The community is divided into three behavioral Groups: Proactive, Receptive, and Unreceptive.

Communication Strategy Behavior Target Audiences

PROACTIVE – Takes the initiative to learn of risk and prepare.

RECEPTIVE – Open to the message if proper setting and materials provided.

UNRECEPTIVE – Hazard will not happen, or too costly or time consuming to prepare. Will not attend seminars or emergency fairs. No supplies or emergency plans.

ASSISTED (People that need assistance – sick, elderly and homeless)

Strategy – Move everyone up the preparedness ladder in small or large steps so the Unreceptive become Receptive, and the Receptive become Proactive or prepared. It is easier to make small changes in behavior. Change Community Behavior over time.

Only the Proactive/Prepared can be counted on to take care of the Assisted/Vulnerable.

Behavior Category	Goal	Target Messages	Mode of Delivery
PROACTIVE	Become as Prepared as Possible and assist community.	Provide detailed information to enhance resilience. Encourage Community Assistance to help others .	Broad – Handbooks, manuals, seminars, webinars, fairs, websites, etc. Individual will seek the information. Bottom-up-Education
RECEPTIVE	Become Proactive	Increase knowledge of risks and mitigation measures to overcome barriers .	Brochures, emergency fairs at malls. Media
UNRECEPTIVE	Become Receptive	Risk based messages to build sense of urgency to prepare.	Media and non-Traditional methods of delivery. Top-Down Education Outreach
ASSISTED	Prepare as much as possible. Work with Proactive Care Providers	Knowledge of mitigation measures. Information to help seeking assistance.	Media and work with organizations helping vulnerable.

Strategies in Aloha Safe Homes – Whole Community Project

*Bottom-Up Strategies to Reach **Receptive** & **Proactive***

1. Update Homeowner's Handbook to Prepare for Natural Hazards to 5th Edition – Print 30,000 copies
2. Update Hawaii Boater's Hurricane and Tsunami Safety Manual – Print 7,500 copies
3. Conduct 50-60 Education/Outreach events over the 3-year project (Workshops, Seminars, Webinars, emergency fairs, media events (TV, radio, newspaper)).

*Top-Down Strategies to Reach **Unreceptive***

4. Policy Driven Education – Create short, comprehensive videos - encourage viewing by organizational leaders as a matter of policy (Tsunami, Hurricane, other)
5. Continuing Education Credits - Insurance Industry, 2024, Legal Industry, 2025, Real Estate Industry, 2026, other

Resilient - Adaptive - Sustainable

University of Hawai'i Sea Grant College Program

**1. Update Homeowner's Handbook
and Print 30,000 copies.**



TSUNAMIS



HURRICANES



EARTHQUAKES



FLOODS

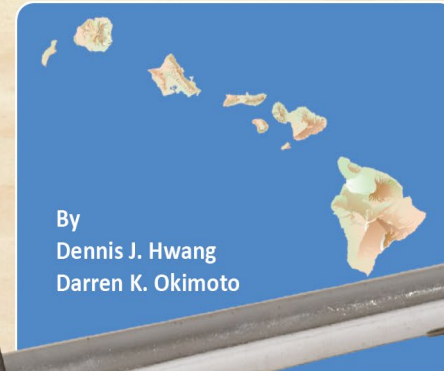


VOLCANO



CLIMATE CHANGE

HOMEOWNER'S HANDBOOK



By
Dennis J. Hwang
Darren K. Okimoto

TO PREPARE FOR NATURAL HAZARDS

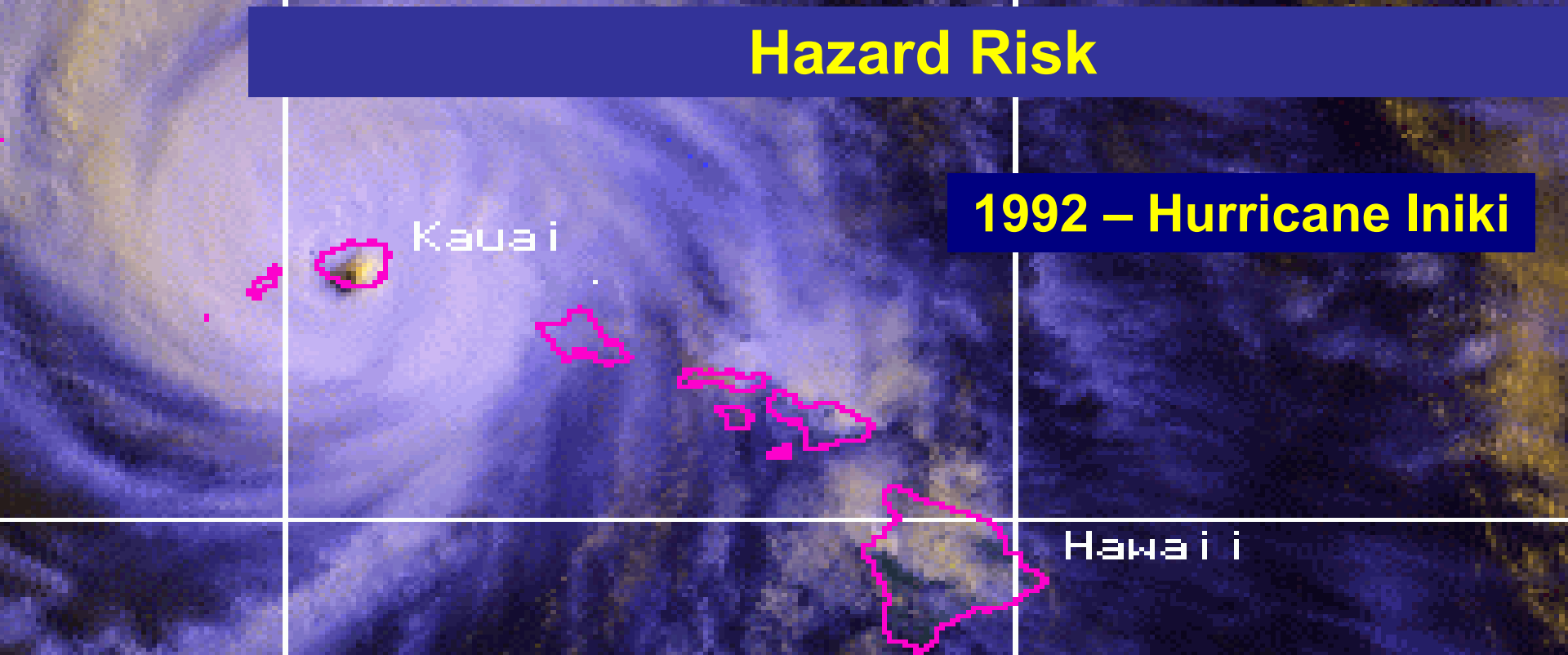
Fourth Edition

Available online as free PDF –
<http://bit.ly/HawaiiHomeownersHandbook>

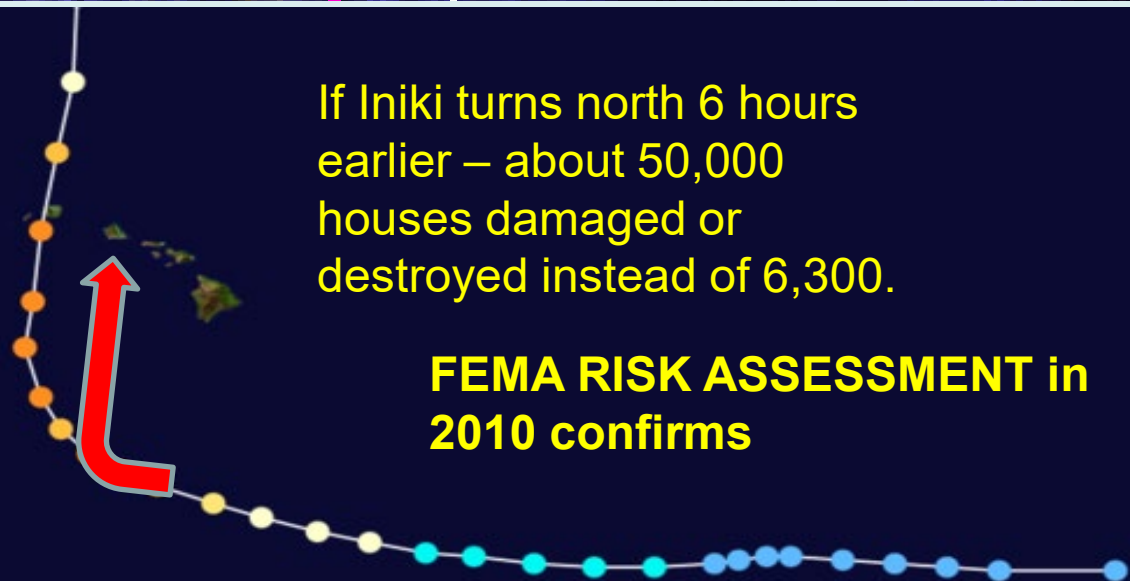


First Aid Kit

Hazard Risk



1992 – Hurricane Iniki



If Iniki turns north 6 hours earlier – about 50,000 houses damaged or destroyed instead of 6,300.

FEMA RISK ASSESSMENT in 2010 confirms

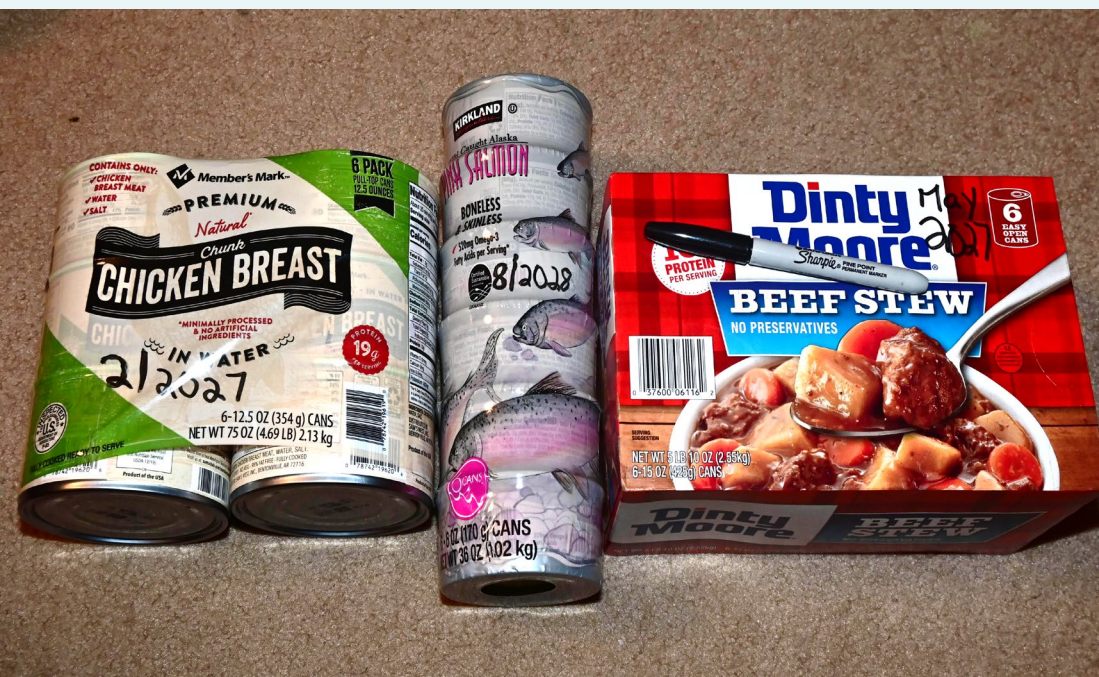


14 – Day Supply of Non-Perishable Food and Water

Family 4 – 56 gallons for 1 gallon/person/day ns - 1 case = 5.3 gallons - 11 cases? – Cost - Space

Get Sanitized Plastic Containers

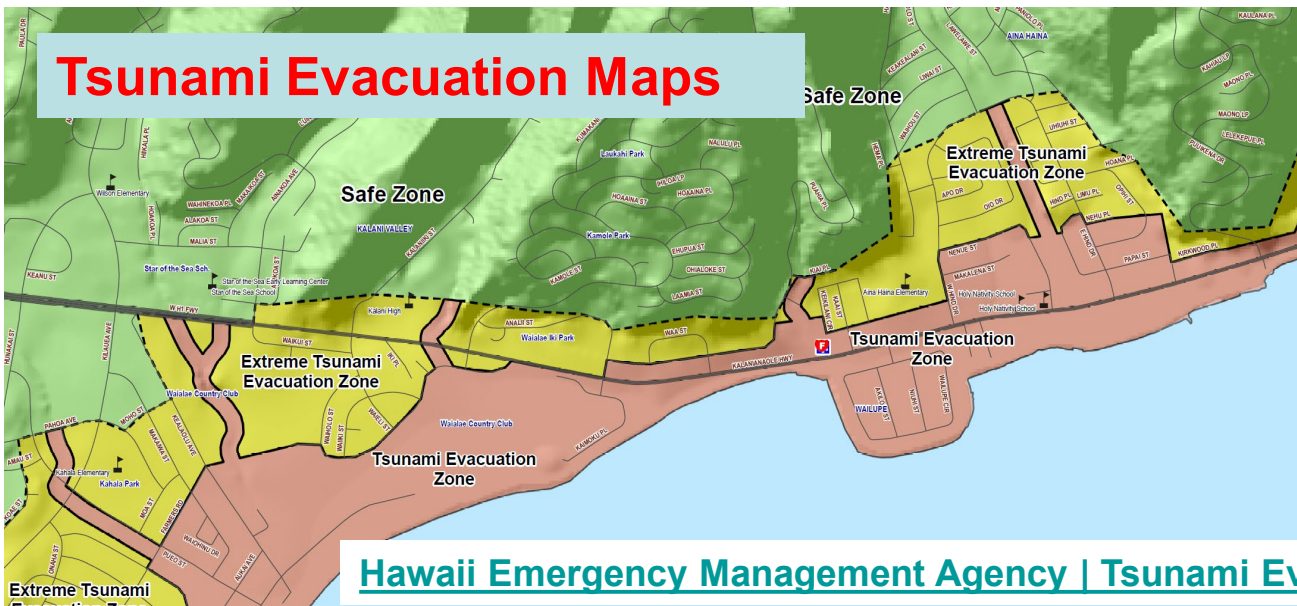
Water Bob at Amazon – 100 gallons - \$35



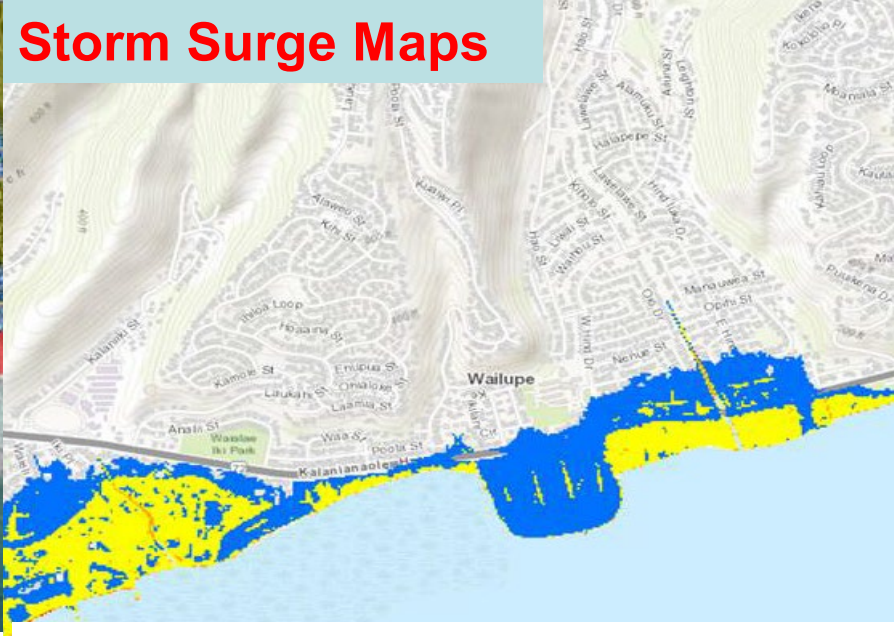
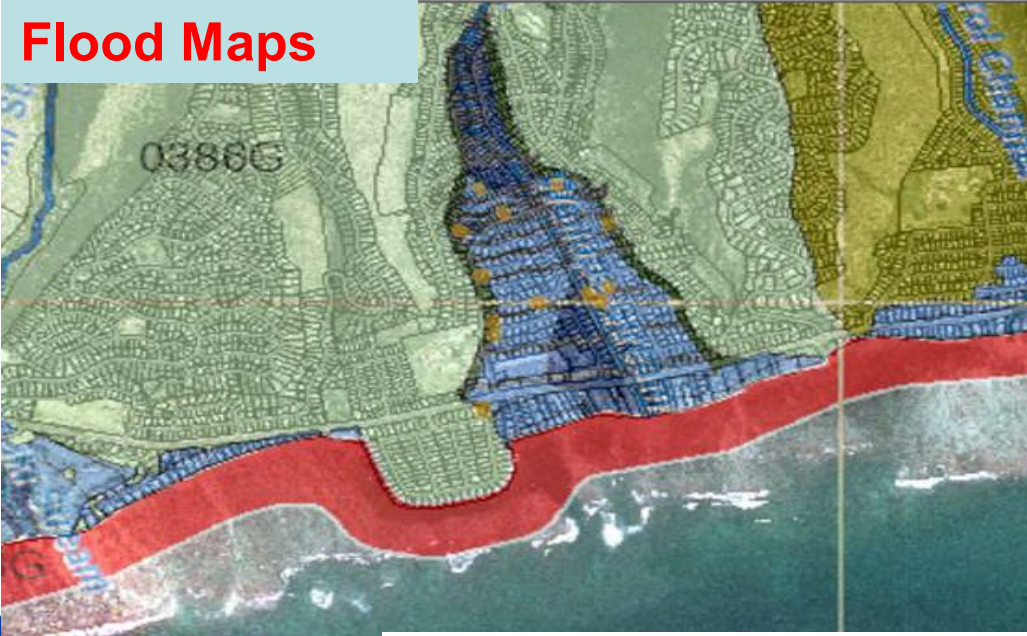
Tips:

- 1) Buy food will normally use
- 2) Long shelf life
- 3) Mark expiration with Sharpie
- 4) Consume year before and restock
- 5) If about to expire – give to Foodbank
- 6) Buy as much as you can for family – Excess if you can for the needy.

Scientifically based Evacuation Plans-Know Your Hazard Zones!!!



**FOR
TSUNAMI
ONLY**



<http://gis.hawaiiifip.org/FHAT>

<https://www.nhc.noaa.gov/nationalsurge/>

DISCLAIMER: Information c

With regard to hurricane shelters, Hawaii has a shortage. The State wants people to shelter in place. This is only possible for stronger homes built with modern building codes or older homes with proper retrofits. See table below in Handbook.

Table 3-4. Shelter-In-Place Guidance (please read instructions in Part 3.6)

ABILITY TO SHELTER IN PLACE DURING A HURRICANE									
PLEASE READ INSTRUCTIONS BEFORE USING THIS TABLE									
Safe room						FEMA or Hawai'i Residential Safe Room			
	Concrete or CMU wall house	Concrete CMU wall house in poor condition	→	Concrete CMU wall house in good condition	→	Concrete CMU wall house with hurricane clips	→	Concrete CMU wall house with hurricane clips & window protection	→
Double wall house		Double wall house in poor condition	→	Double wall house in good condition	→	Double wall house with hurricane clips	↗	Double wall house with hurricane clips & window protection	→
	Single wall house	Single wall house in poor condition	→	Single wall house in good condition	→	Single wall house with hurricane clips	→	Single wall house with hurricane clips & window protection	→
Suggested Action		←		→					
	Unsafe Evacuate! Do Not Shelter in place	Marginal Shelter in place up to a Tropical Storm	Good Shelter in place up to Category 1 hurricane	Better Shelter in place up to Category 2 hurricane	Best Shelter in place up to Category 3 hurricane				

*Based on discussions and review with Ian Robertson, Professor, UH Mānoa, Civil and Environmental Engineering; Gary Chock, Structural Engineer, Martin & Chock Inc.; Tim Waite, PE, Simpson Strong-Tie; and Kevin Richards, Natural Hazards Officer, Hawai'i Emergency Management Agency.

1. Explains when can shelter in place and when cannot while providing evacuation alternatives (e.g., stronger house, concrete reinforced high rise, public shelter as last resort).
2. Encourages home retrofits to make house stronger & more likely to be able to shelter in place.
3. Education & outreach needed to inform public what is suitable.

Mitigation – Reduce Hazard Risk

Iniki 1992



Iniki 1992



2021
Maunalani
Heights



Tie Roof to Wall – Hurricane Ties/Clips



2 Saturdays and \$300 in material costs (seek advice of licensed architect or structural engineer first)

Or \$2,100 with licensed contractor



H3



HM9

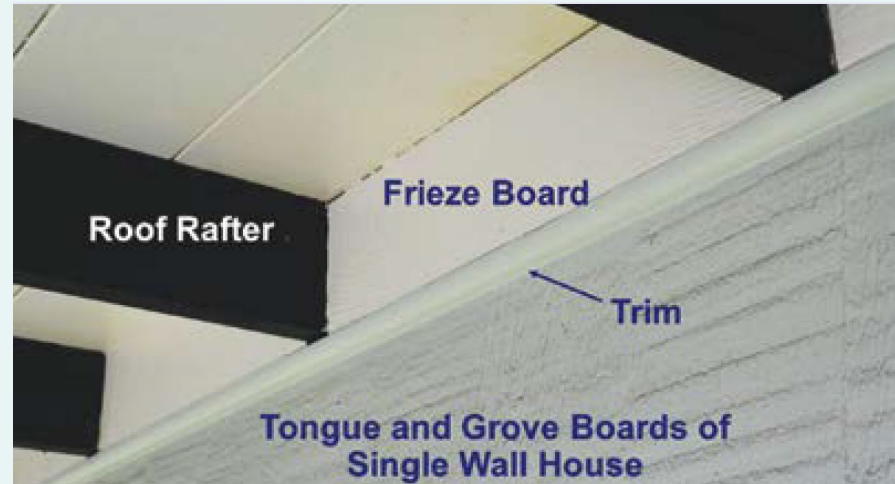
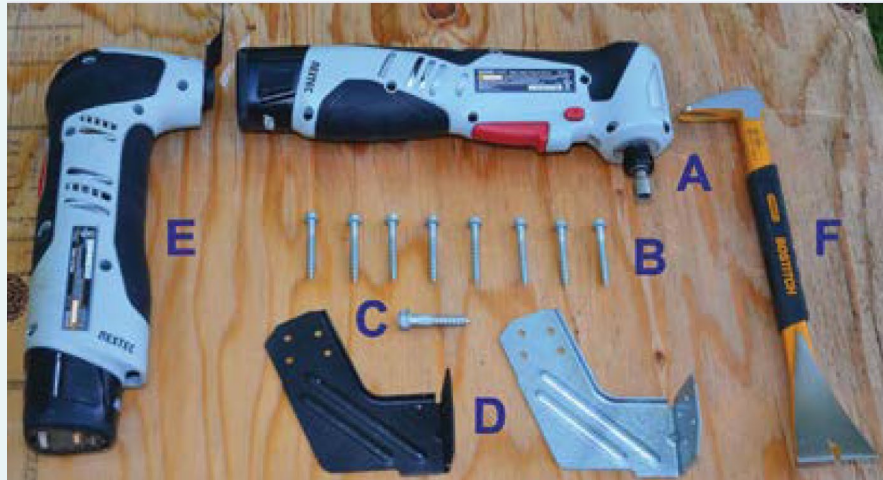


HPT

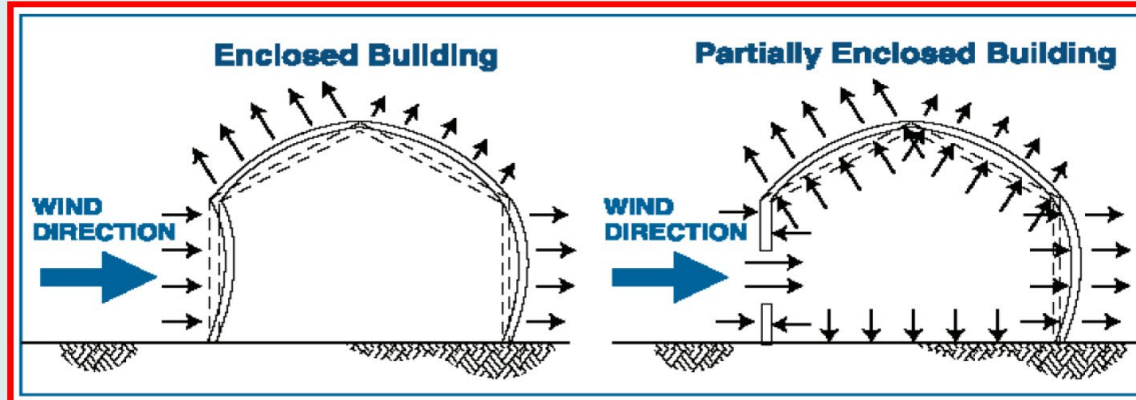
About 7,500 homes retrofitted. Mostly by Proactive People, no requirement or grant.

Guide for Installing Hawaii Plantation Tie (HPT) Hurricane Tie

For all retrofits – first seek advice of licensed structural engineer or architect.



Opening Protection to Prevent Internal Pressurization



Don't open windows

No masking tape

Protect Windows & House Envelope



Financial Incentives

Typical Hurricane Insurance Discounts

1. Roof to Wall – 10%
2. Windows – 15-18% for single family homes & 18% for condos
3. Wall to Foundation – 10-12%



1956 single-wall house now has a continuous load path.



Single-Wall House with Load Path!!

HPT hurricane clip on each rafter. See Part 4.1.1 of the Homeowner's Handbook on procedures.

Each exterior post retrofitted. See Part 4.1.2 of the Homeowner's Handbook on procedures.



- **2020 Hurricane Insurance Premium per year \$1,184. With retrofit \$932 or \$252 per year in savings. In 2024, insurance premiums so high retrofit savings \$540 for a retrofit with material cost of \$500.**
- **Some premium increases 226% - \$860 per year in 2023 to \$1,954 in 2024.**

+ Install flood openings

— Elevate their home or business

Elevating a home is the fastest way to reduce flood insurance costs.

Clients who live in the high-risk flood area can save hundreds of dollars each year for every foot that their structure is elevated above their community's BFE. Elevating just one foot above the BFE often results in a 30% reduction in annual premiums.



Other

- Opening – flow through of waters
- Elevate Electrical
- Community Rating System
 - Freeboard
 - Shoreline Setbacks
 - Education/Outreach

Types of Roof Damage

Roof Blow Off



Plywood Deck off the Trusses



Blown off Shingles



Soffits & Wall Covering



Roofing – The Most Important Element in Resilient House

- 1) **Strong** – Able to withstand wind forces:
 - a. Roof tied down to the foundation (load path)
 - b. Proper attachment of roof deck & roofing material
 - c. Shingles wind rated
- 2) **Sealed** – No water leaks during a rain event
- 3) **Cool** – Heat reflective to lower energy costs
- 4) **Fire Resistant** – Class A shingles, metal roof

271 Front Street





**Defensible
Space**

**Metal Corrugated
Roof – Class A
Fire Rating**



Example B - Front St.





- 1) Defensible Space
- 2) Reroofed – Class A
- 3) Rock Wall – not wood
- 4) CMU walls for house

Owner replaced wood shake roof with asphalt shingle – Class A



Hawai'i Boater's Hurricane and Tsunami Safety Manual



**2. Update of the Hawaii
Boater's Hurricane and
Tsunami Safety Manual.
Print 7,500 copies**

**Partners - DLNR Division of
Boating and Ocean Recreation,
U.S. Coast Guard Complete,
Hawaii Ocean Safety Team, NOAA
National Weather Service.**

Updates:

***The Coast Guard - Regulated
Navigation Area during tsunami
evacuation***

***Different communication methods
(Wireless Emergency Alerts, county
apps., radio frequencies)***

***New graphics, imbedded educational
videos and summary tables.***





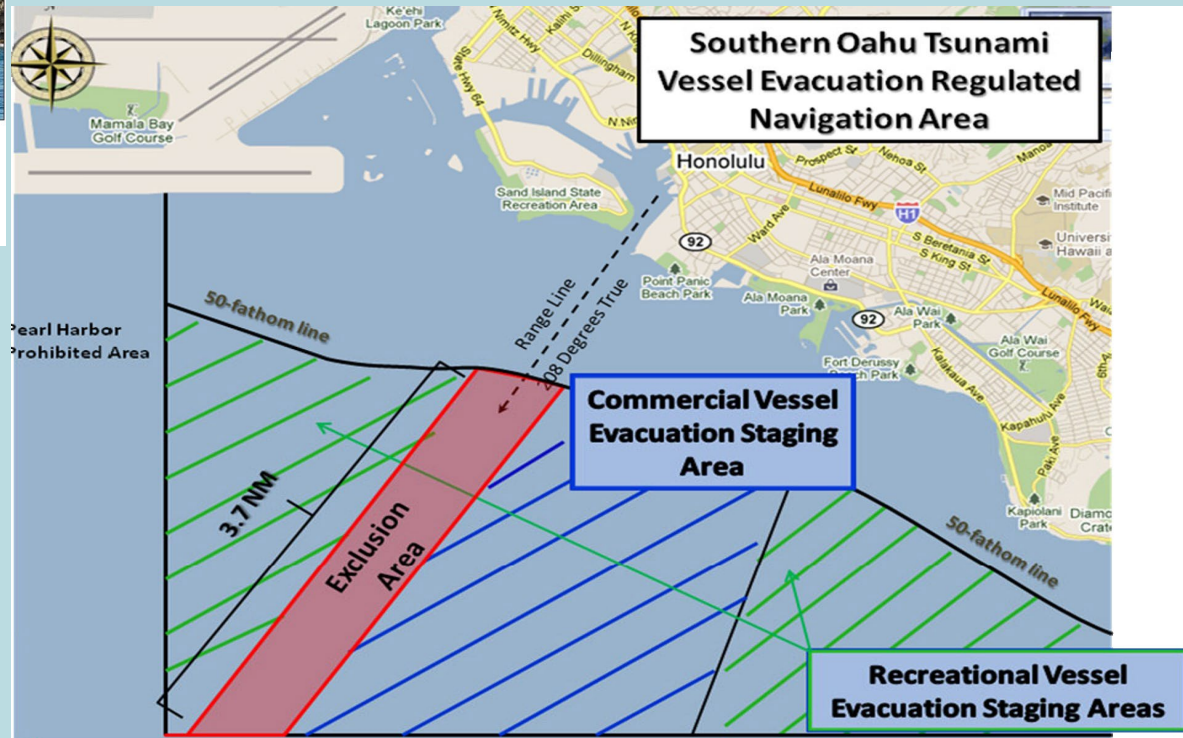
Lebu, Chile. A major 8.8 magnitude earthquake off the coast of Chile on February 27, 2010 caused massive destruction of buildings as well as a devastating tsunami which destroyed several coastal towns and commercial fishing vessels. Photo courtesy of National Geological and Mining Survey (SERNAGEOMIN) 2012 and UNESCO/IOC - NOAA International Tsunami Information Center.



O'ahu, Hawai'i. In response to the large earthquake and tsunami in Chile on February 27, 2010, a tsunami watch and later warning was issued in Hawai'i. Here boats at Kewalo Basin on O'ahu head to deeper water. The Coast Guard vessel in the background is observing operations and ready to provide assistance. During a tsunami warning, boats going to sea should stay at depths greater than 300 feet and at least 2 miles from the channel entrance. Photo courtesy of Dennis Hwang.

During a tsunami warning, boats going to sea should stay at depths greater than 300 feet and at least 1/2 mile from the channel entrance.

The Coast Guard has a new Regulated Navigation Area that was not in the 2013 Manual. Discussion with Coast Guard and the Community are under way in workshops to explain implementation.



Exclusion Area: 1/2 NM either side of Honolulu Harbor Range Line

3. Education/Outreach Events (50) over 3 years

- **Helps Proactive and Receptive**
- **In 2024 - Emergency Fairs (8),
Seminars (6),
Media – (TV (3), Radio (1), Newspaper (1)),
Workshops (2),
Continuing Education Courses for the Insurance Industry
(2), Conferences (1)
Emergency recovery information for Lahaina (2)**

Six events targeted the vulnerable:

AARP (2)

Kapuna Wiki Radio Show

Lanikila Senior Center

American Red Cross

Hawaii Food Bank.

Employee Emergency Preparedness Open House

With September being Preparedness Month, all employees and their immediate 'ohana are invited to learn more on how to be prepared for emergencies.

Employees will receive a free starter emergency "go-kit" bag for their household along with preparedness items provided by our external partners. Employees' keiki are also invited to bring their own backpacks to start their own "go-kits".

Moloka'i and Lāna'i employees: Starter Go-Kits with items being distributed will be interofficed directly to your supervisors.

WEDNESDAY, SEPTEMBER 18, 2024

3 PM - 5 PM

KBY AUDITORIUM



Workshop for 65 Hawaiian Electric Staff and Line Workers in Maui on Preparing Homes – Emergency Supplies, Evacuation Planning and Home Retrofitting (roof tie downs, load path & window protection) with Full Scale Mock-Up.

American Association of Retired Persons (AARP) 5-19-2024 – Physical meeting for 35 (see below – many proactive participants)



Know Your Risks

- Tsunami
- Flooding
- Hurricanes
- Active Shooter
- Volcanoes
- Pandemic
- Wildfires
- ???

AARP



Hawaii Foodbank 6-14-2024 Physical meeting for 65

Materials created by
Hawaii Foodbank for
the training class



Want a Copy?

Scan QR code for a digital
copy of the Homeowner's
Handbook to Prepare for
Natural Hazards.



SCAN HERE



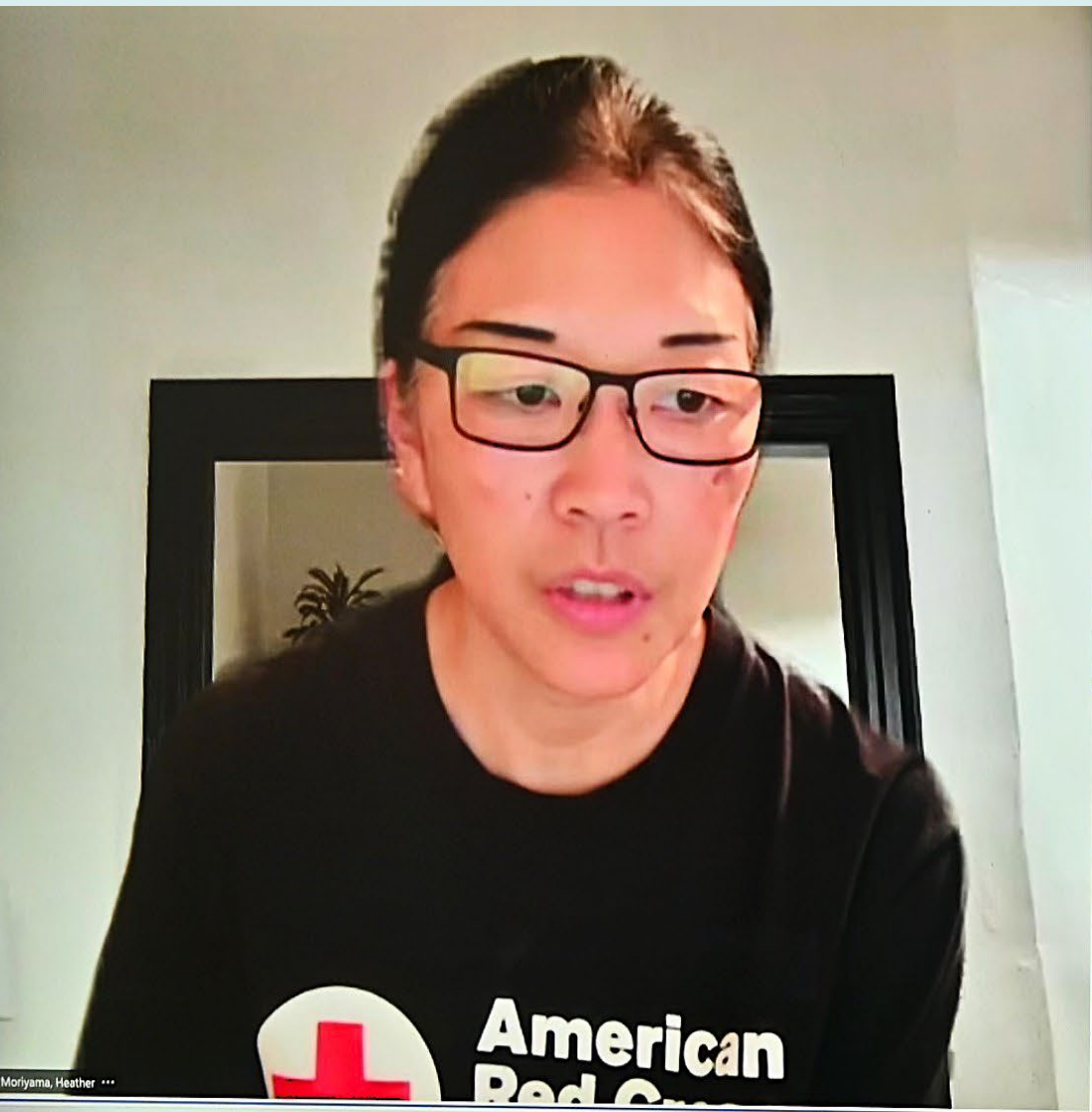
Tsunami Video

Check out this Hawai'i
Tsunami Preparedness
video to learn more
about about our risks
and how to stay safe.



SCAN HERE

American Red Cross Training - 42 Workers 6-13-2024



Moriyama, Heather ...

- Chee, Jayle...
- Jean Cluff (...)
- Wesley Chi...
- Diane M (U...)
- Cruz-lentz, ...
- Manibusan, ...
- Prapti Pras...
- Briggs, Tony
- Brian Dern...
- Constantin...
- Broome, M...
- Finley, Mary
- Shibata, Ca...
- Gee, Diane
- deena choi...
- Franz Web...
- Irvin Yoshin...
- Greenly, Ju...
- Schmidt, M...
- Wells, Matt...
- Alarcon, N...
- Waters, Chr...
- Kathryn Te...
- Ricks, Jasm...
- Alarcon, Ky...
- Gushi, Meri...
- Gallagher, ...
- Yong Snell, ...
- Jemarie Tar...
- Rae Teram...
- Cathy Catli...
- Emmalyn P...
- Alarcon, Re...
- Caleb Alarc...
- Kerisiano, K...
- View all

Meeting chat

Hi Julie - glad you can make

Yong Snell, Mahi 6:02 PM

Mahalo Tony! ❤️

1

How do we get a hold of a copy of this book?

Anderson, Daniel 6:07 PM

Yong Sne... 6/13/2024 6:06 PM
How do we get a hold of a copy of this book?

Mark Broome has copies at HQ.

Yong Snell, Mahi 6:07 PM

I'm on Big Island

Moriyama, Heather 6:07 PM

We sent an email yesterday with the QR code to the handbook. We will send it out again later.

3 ❤️ 1

Anderson, Daniel 6:17 PM

HNL Info app

Maui + Alert Sense, MEMA Alerts

Franz Weber (Guest) (Unverified) 6:32 PM

One of the best presentations I ever had. Excellent tips, short and efficient

Yong Snell, Mahi 6:32 PM

excellent but great tips to share with others

Gee, Diane 6:33 PM

Thank you so much

Type a message



Newspaper Stories

Honolulu Star-Advertiser - Sunday Paper – 6-23-2024

Two Full Page Article – Donated by Paper - 123,000 copies printed

DISASTER PREPAREDNESS 2024



Prepare Your Family And Home For All Hazards

STORY AND PHOTOS COURTESY DENNIS HWANG, FACULTY, UNIVERSITY OF HAWAII SEA GRANT COLLEGE PROGRAM, NOAA

When wildfires struck Lahaina on Aug. 8, 2023, more than 2,200 structures were destroyed and there was an estimated \$5.5 billion in damages. By comparison, Hurricane Iniki's impact on Kauai resulted in 6,400 homes damaged or destroyed with \$3.1 billion in damages (equivalent to \$7 billion in 2023). Risk assessments after Iniki in 1992 and Hurricane Lane in 2018 indicate that a Category 2 strike on Oahu could re-

sult in more than 50,000 houses damaged or destroyed and \$25 billion in damage. These events emphasize the urgent need for all families in Hawaii to prepare for all hazards.

You can learn how to reduce the risk to your family and home with the free Homeowner's Handbook to Prepare for Natural Hazards available at UH Sea Grant or get a digital copy at hawaii.seagrant.org.

For tsunamis: Review the YouTube video titled 2024 Hawaii Tsunami Preparedness at youtube.com/@hawaiiseagrant. Learn about the science and risk of tsunamis, creating emergency/evacuation

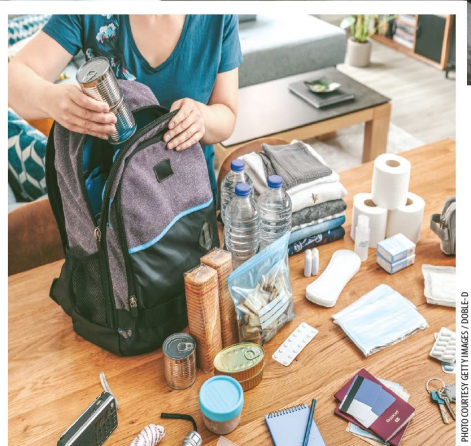


PHOTO COURTESY GETTY IMAGES / DOBIE D

DISASTER PREPAREDNESS 2024 | 7

plans for a tsunami and obtaining emergency alerts from local emergency management offices. This information will also help you prepare for other hazards.

For hurricanes: Follow the tips in our homeowner's handbook, where you'll learn how to gather 14 days of emergency supplies, obtain insurance, strengthen your home and create an evacuation/emergency plan for the triple threat of a hurricane:

- **Waves:** Check if you are in a storm surge zone using the NOAA storm surge maps (nhc.noaa.gov/national-surge).

- **Inland and coastal flooding:** Check the Hawaii DLNR flood hazard assessment tool (flat.hawaii.gov).

- **Wind:** Only shelter in place if your house is strong enough (see the shelter-in-place table in our handbook). If your house is not wind resistant or free from flood or storm surge risk, go to a friend's or relative's place (stronger house/high-rise/reinforced concrete building) that can withstand the

triple threat. A public shelter is the last resort. Wait for instructions from local emergency management before you evacuate.

Nearly all homes can be strengthened, which makes it more likely you will be able to shelter in place.

Add hurricane clips to your roof to keep it from blowing off. Generally, houses built after 1988 on Oahu, after 1990 on Maui and Kauai, and after 1994 on Hawaii County have them. If they are absent, a simple retrofit can be done with the guidance of a licensed architect or structural engineer and \$300 in material costs. Or hire a qualified licensed contractor, for about \$2,200.

Consider protecting your windows with plywood, a storm panel system or impact-resistant windows. Do not use masking tape or open windows to equalize pressure. The handbook covers 10 options for window protection.

When components of your roof reach the end of their life, use tips in

the handbook to create a resilient, adaptive and sustainable roof. Seal your roof against water infiltration. Tie all roofing components down for strong winds. Keep your roof cool to reduce energy demand and increase the life of roofing materials. Use Class A fire-rated roofing materials (such as metal or Class A fire-rated shingles) to reduce wildfire risk.

Maintain your house by preventing wood rot, termite damage and corrosion. Clear your yard of potentially flammable material such as dead or dry vegetation, newspapers, or anything that can burn or fly away from high winds. Clean gutters so water can flow off the property during heavy rain and doesn't ignite during a drought when there is wildfire risk. More tips can be found in the handbook and in publications by Hawaii Wildfire Man-

agement Organization (hwmco.org/get-prepared-materials).

Strengthen your home continuously over the long term, since it protects you and your family. The best time is now, when weather conditions are favorable and before you are caught off guard.



ARE YOU READY?

KAPILI HURRICANE PREPAREDNESS GUIDE

- 1

HAVE YOUR ROOF INSPECTED BY A ROOFING PROFESSIONAL. THIS WILL HELP CHECK FOR PRE-EXISTING DAMAGES
- 2

STORE IMPORTANT DOCUMENTS IN WATERPROOF CONTAINERS. (MORTGAGE STATEMENTS, INSURANCE POLICIES, ETC.)
- 3

CREATE AN EVACUATION PLAN AND DISCUSS IT WITH YOUR FAMILY
- 4

STOCK UP ON MEDICAL SUPPLIES AND PRESCRIPTION FOR AT LEAST 1 MONTH
- 5

MAKE SURE YOU SUPPLY ENOUGH FOOD AND WATER FOR EACH PERSON AND FOR AT LEAST 1-2 WEEKS
- 6

SECURE ANY OBJECT THAT CAN BECOME PROJECTILES TO HELP LOWER THE RISK OF INJURY OR DAMAGE
- 7

TAKE PHOTOS OF YOUR HOME TO DOCUMENT ITS ORIGINAL CONDITION FOR FUTURE INSURANCE CLAIMS

PHOTO COURTESY GETTY IMAGES / DOBIE D

Bottom-Up Education and Outreach from July to September 2024
5 Emergency Fairs – (Maui July 13, Kahala July 27, Kailua Sept. 7, Leeward Oahu Sept. 21 and Hawaii County Waimea Sept. 28); 1 Seminar/Webinar; 1 Workshop



Eastside Preparedness Fair

Learn how to prepare for disaster from preparedness organizations

Saturday, July 27 from 10am to 1pm
 Kahala Mall
 4211 Waialae Ave

Sponsored by Aina Haina Prepared | ainahprepared@gmail.com

KAILUA EMERGENCY PREPAREDNESS FAIR
Saturday, Sept 7
9am - 1pm
Kailua Town Center

*Keiki or Kupuna ID *Police
 *Fire *EMS *Demos *CERT
 *Fire Safety *HAM Radio
 *Give Aways *FREE event
 *Open to the public

Hawaiian Electric
 ALEXANDER & BALDWIN

July 13 - Maui – Giving Resilient/Recovery Report to residents of Lahaina whose houses burned down.



CIVIL DEFENSE DISASTER PREPAREDNESS FAIR

Saturday, September 28th, 10AM - 2PM
 Waimea Kahilu Town Hall



Learn how to get your **community & home** prepared!

- ▲ Door prizes & giveaways!
- ▲ Keiki ID and kids activities
- ▲ Information booths
- ▲ Preparedness presentations
- ▲ Live broadcast by KWXX
- ▲ Interactive preparedness games

More Information: hawaiicounty.gov/civil-defense

September 21 – Leeward Oahu Emergency Fair – going over scientifically based evacuation planning for residents in tsunami zone.

4. Policy Driven Education

- Create short, comprehensive videos (tsunami, hurricane, other)
- Viewership encouraged by organizational policy or part of safety training
- Target – All employees, State, County, University and large Organizations



**2024 Hawaii Tsunami
Preparedness
Video For the
General Public On
YouTube**

[Hawai'i Tsunami
Preparedness
\(youtube.com\)](https://www.youtube.com/watch?v=...)

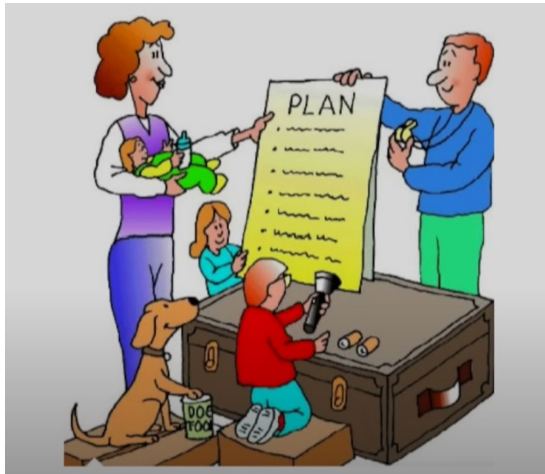
Top-Down Strategy – Policy Driven Education

April - Tsunami Awareness Month -Tsunami Video

May - Hurricane Preparedness Week - Hurricane Video

Video Covers All the Basics:

- Distant Tsunamis
- Tsunami Zones (Evacuation & Extreme)
- Local Tsunamis & Natural Warning Signs
- Drop Cover Hold
- Emergency Com. (WEA & County Apps.)
- All Hazard Outdoor Siren System
- Evacuation Kit
- Evacuation Planning for Entire Family & Pets
- Scenario Planning (Home, Work, School)
- Vertical Evacuation



Talmadge Magno, Hawai‘i County Civil Defense Agency Administrator: *“This video has it all in one place. It covers how a tsunami is generated, tsunami zones, emergency communications and evacuation planning so that residents properly know where to go during the tsunami threat.”*

After voluntary marketing efforts from April 1 to 15, 2024 - viewership 435

To all Hawaii County Employees: “There is a short video called “Hawaii Tsunami Preparedness that we highly encourage everyone to watch. The more you are aware, the better you are prepared.”

Mayor Mitch Roth - Hawaii County – April 15, 2024

To all Kauai County Employees: “I highly recommend you view the 16-minute video, as it provides information that could potentially save the lives of you or your loved ones . . . it includes information to help prepare for other natural hazards, such as wildfire and hurricanes. It is important that all County employees be as prepared as possible.”

Mayor Derek Kawakumi - Kauai – April 24, 2024

After Policy Driven Efforts by Mayors of Hawaii (2,800 employees) and Kauai County (1,300 employees), viewership up tenfold to 4,925 by June 19, 2024.



Potential Targets for Policy Driven Education

Governor/State – 85,000 employees according to 2018 data from the Department of Human Resources

Mayor/O‘ahu – 10,000 employees

Mayor Kauai – 1,000 employees*

Mayor Hawaii County – 2,800 employees*

Hawaii FoodBank - 100 employees - check

CEO/First Hawaiian Bank – 2,250

CEO/Bank of Hawai‘i – 2,122

CEO/American Savings Bank – 1,123

CEO/Hawaiian Electric Co. – 2,723



5. Continuing Education Credits

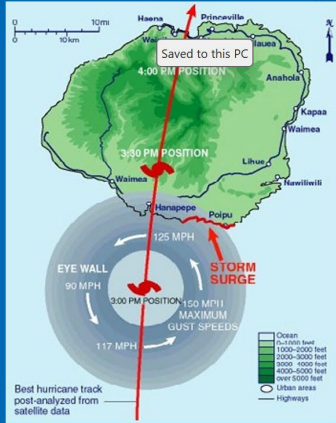
In many professions – Continuing Education required to practice in the field. Project creates courses in Insurance, Legal, Real Estate Industry.



5. Continuing Education Credits

1. On September 11, 2024 – Department of Commerce and Consumer Affairs Insurance Commissioner Approves 2-hour Continuing Education Credit Course for Insurance Agents
2. Covers
 - a) Natural Hazard Science
 - b) Emergency Supplies & Evacuation Planning for Hurricane and Tsunami
 - c) Mitigation – Hurricane, Flood, Wildfire Retrofits
 - d) Insurance (Hurricane, Flood, Homeowner's) Impact of mitigation on insurance, rising insurance costs.
3. CEC highly sought after by many professions – insurance, legal, real estate.

NATURAL HAZARD SCIENCE, EMERGENCY PREPAREDNESS, MITIGATION & INSURANCE

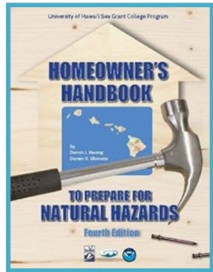


A FREE 2-Hour CE course for insurance agents and community members

Thursday November 21st, 2024

10:45 a.m. Log in to Zoom
11:00 a.m. Course begins promptly
1:00 p.m. Course ends

PREPARE HOMES AND FAMILIES FOR HURRICAN, WILDFIRE, TSUNAMI AND FLOOD RISKS



Course modules:

- Natural Hazard Science (11:00 to 11:30 a.m.)
- Emergency Preparedness (11:30 a.m. to 11:55 a.m.)
- Home Strengthening (Mitigation) (12:05 p.m. to 12:30 p.m.)
- Insurance (Types of Insurance and Impact of Mitigation) (12:30 p.m. to 1:00 p.m.)

Download your **free** copy of the *Homeowner's Handbook to Prepare for Natural Hazards (4th edition)!*

<http://bit.ly/HawaiiHomeownersHandbook>

Also, watch this short video on *Tsunami preparedness:*

[Hawai'i Tsunami Preparedness](#)

REGISTRATION: click link below to register

https://us06web.zoom.us/webinar/register/WN_tz4J50aVTu-9y5ZSkw12zQ

Provider # 346783
Course #:6000177473

For Insurance Agents: Please be sure to include your full name, email, and Entity ID (Vendor #) for 2 PC CE credits. Full 2-hour attendance is mandatory to receive credit. Please log in 15 minutes prior to the start of the webinar (10:45 a.m.). **Approved by the Hawaii State Insurance Commissioner for two PC continuing education credits.**

For Community Members: Please be sure to include your full name and email. You can watch all four modules, or just the ones you wish. Please log in 15 minutes prior to the start of the webinar (10:45 a.m.)

Number of participants is limited to 500

For further information, please contact Leslie Door, HAIP Education Committee Co-Chair at: webinars@zephyrinsurance.com

Course scheduled for November 21st. Up to 500 limit. Insurance Course will be held in 2024, 2025, and 2026. (~7,400 agents)

Legal Course targeted for 2025 and 2026. Taped viewings to watch on demand possible. (~5,000 attorneys)

Real Estate Course targeted for 2026. (~12,000 realtors)



Levels of Preparedness in Hawaii

6. Plans To & Can Assist Others
5. Harden Homes by Retrofit
4. Insurance (Flood & Hurricane)
3. Scienced Based Evacuation Plans
2. 14-day supplies & evacuation kit
1. Aware & understands risk

Increased
Difficulty

Percentage
Performing

