

AGENDA

 Hurricane Preparedness and Recovery in Manufactured Home Communities



Hurricane Preparedness and Recovery in Manufactured Home Communities

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Upcoming Training

September 11 Hurricane Member Update Disaster Housing Mitigation in Miami

https://attendee.gotowebinar.com/register/2830944878400736269







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Thank you!



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Manufactured Housing

Mitigation and Post Event Recovery from Hurricanes



Russell S. Watson

Federation of Manufactured Home Owners of Florida

District 4 President

National Manufactured Home Owners of America Board of Directors – Member at Large

HUD Manufactured Housing Consensus Committee

Member

A Brief History



Tin Can Tourists circa 1931



Worker Housing World War Two



Camping Trailer in Tampa MH Park 1958



Singlewides



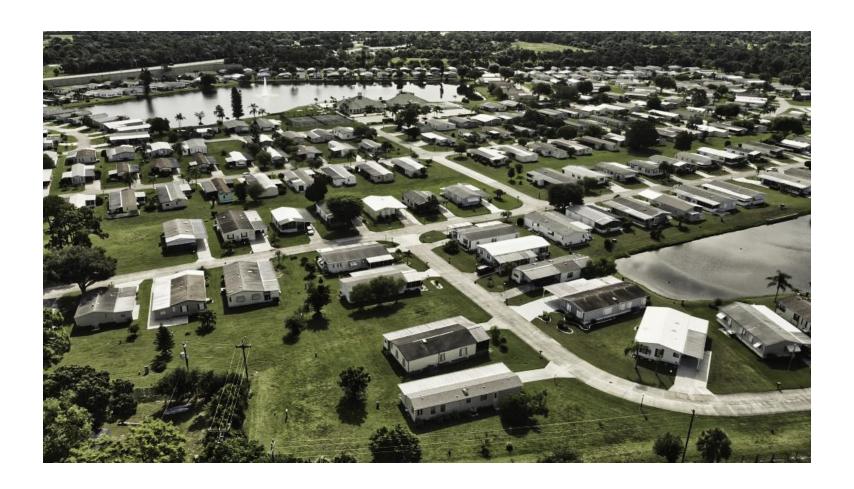
Older Singlewide Homes in a Land-lease Park



Modern Singlewide MH Park



Modern Mixed Single and Doublewide Park



Manufactured Homes in a Land-Lease Park



Top Tier Resort Community



MH on Private Land



New Singlewide Ready for Delivery



Modern Doublewide Onsite Installation



Sections Come Together



Today's Manufactured Home





Regulation Relative to Construction and Mitigation

Department of Housing and Urban Development (HUD)

24CFR 3280 - 3288

Governs manufacture and installation minimum standards

Florida State Department of Highway Safety and Motor Vehicles (FLHSMV)

Title XXIII Chapter 320

Governs installation, Repair, and Remodeling

Florida Hurricane Loss Mitigation Program

Title XIV Chapter 215

The Tie Down program and others.



HUD CODE

Manufactured Home Construction and Safety Standards

This standard covers all equipment and installations in the design, construction, transportation, fire safety, plumbing, heat-producing and electrical systems of manufactured homes which are designed to be used as dwelling units.

What is a Manufactured Home?

Manufactured home means a structure, transportable in one or more sections, which in the traveling mode is 8 body feet or more in width or 40 body feet or more in length or which when erected on-site is 320 or more square feet, and which is built on a permanent chassis and designed to be used as a dwelling with or without a permanent foundation when connected to the required utilities, and includes the plumbing, heating, air-conditioning, and electrical systems contained in the structure.

Significant Dates

June 15, 1976

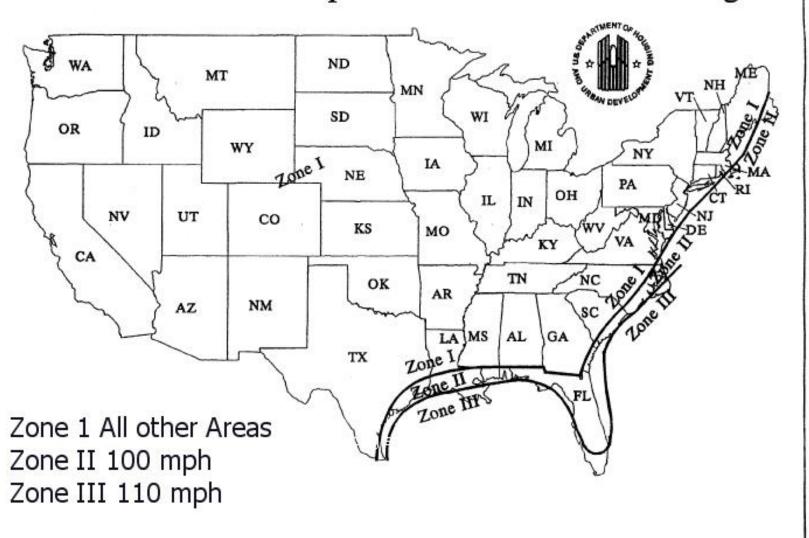
Homes built after this date, which meet the HUD Code, receive a certification label and are termed "Manufactured Homes" These homes were built for sustained winds of 70 mph. This is approximately equivalent to peak gusts of 85 mph.

Homes built before this date are not built to HUD Code and are commonly called Mobile Homes

July 13, 1994

Data collected about Hurricane Andrew's effect on manufactured housing in Louisiana and Florida prompted HUD wind safety studies on nail connections, wind load, anchoring systems, and joints. Homes built after this date are designed for greater wind loads. Wind zones were established and homes must meet the zone requirements to be sold there.

Basic Wind Zone Map for Manufactured Housing



Florida Definitions

FS 320

"Manufactured home" means a mobile home fabricated on or after June 15, 1976, in an offsite manufacturing facility for installation or assembly at the building site, with each section bearing a seal certifying that it is built in compliance with the federal Manufactured Home Construction and Safety Standard Act.

The "travel trailer," which is a vehicular portable unit, mounted on wheels, of such a size or weight as not to require special highway movement permits when drawn by a motorized vehicle. It is primarily designed and constructed to provide temporary living quarters for recreational, camping, or travel use. It has a body width of no more than 81/2 feet and an overall body length of no more than 40 feet when factory-equipped for the road.

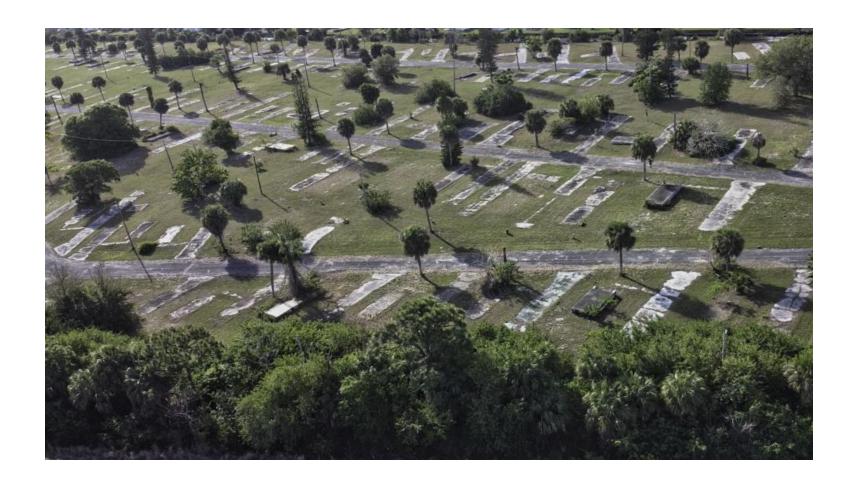
FS 723:

Mobile home" means a residential structure, transportable in one or more sections, which is 8 body feet or more in width, over 35 body feet in length with the hitch, built on an integral chassis, designed to be used as a dwelling when connected to the required utilities, and not originally sold as a recreational vehicle, and includes the plumbing, heating, air-conditioning, and electrical systems contained therein.

Dadeland Mobile Home Park after Andrew



Parks can close following extensive hurricane damage



Flooding





Insurance

Hurricane Andrew wiped out most insurers of mobile homes. The state of Florida established two associations and a fund in response:

Florida Residential Property and Casualty Joint Underwriting Association (RPCJUA) Florida Windstorm Underwriting Association (FWUA)
The Florida Hurricane Catastrophe Fund

2002 – RPCJUA & FWUA merged to create Citizens Property Insurance Corp. (Citizens)

2020 – 198 companies listed as providing Mobile Home Physical Damage insurance

Key years to insurers

1976

1994

1999

Other issues:

Add on structures such as carports and screen porches not covered



Damage

Most Common:

Carports and Screen Porches

Impact damage from Debris

Missing Shingles/Water intrusion

More severe:

Major Roof and Structural from carport failure

Falling Trees

Rollover or displacement from foundation – pre 1999



Carport Damage – Hurricane Irma



Damaged Screen Porch



Wind Swept Debris



Fallen Tree



Carport Gone – Roof Severely Damaged



Storm Ready Services

The carport rolled back almost the entire length of the home. As the panels tore away, the gaps left by torn away panels, allowed the wind to undermine the roof and begin to tear away from the front porch all the way back to the shed.

Overturned – No Tie Downs!



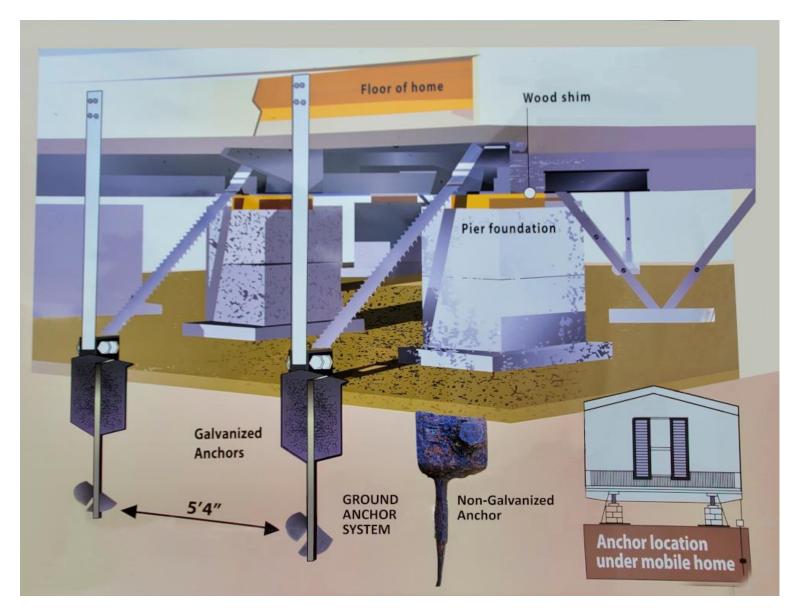
Mitigation

"the process or result of making something less severe, dangerous, painful, harsh, or damaging" Merriam- Webster

What can be done to reduce losses to mobile and manufactured homes?

- Update/Replace Anchoring
- Strengthen Carport/Porch
- Install Hurricane Shutters or
- Replace Windows with Impact Glass
- Roof Update/Upgrade
- Storm cut nearby trees
- Home Replacement

Anchoring System for Manufactured Homes



Carport Upgraded to Mitigate Wind Damage



Basic Hurricane Shutters



Impact Glass Replacement Windows



Worn Out Roof with Wind Damage



FEMA

Can result in water damage and mold



Large Trees can be Storm Trimmed



Current Mobile/Manufactured Home Mitigation Programs



Florida Hurricane Catastrophe Fund

A state trust fund formed (FS 215.555) following Hurricane Andrew to provide a stable and ongoing source of reimbursement to insurers. It is funded by insurance companies operating within the state.

The FHCF fulfills its statutory mission by providing reliable, dependable, and predictable coverage that is limited to genuinely catastrophic losses, and by striving to assure that reimbursements are paid promptly and in sufficient amounts



Hurricane Loss Mitigation Program

In 1999, the legislature passed the Bill Williams Residential Safety and Preparedness Act which created the Hurricane Loss Mitigation Program, FS 215.559.

\$10 million appropriated annually from the Florida Hurricane Catastrophe Fund

\$3 Million goes to retrofit existing facilities used as public hurricane shelters.

\$7 million is used for programs to improve the wind resistance of residences and mobile homes, including loans, subsidies, grants, demonstration projects, and direct assistance; educating persons concerning the Florida Building Code cooperative programs with local governments and the Federal Government; and other efforts to prevent or reduce losses or reduce the cost of rebuilding after a disaster. Forty percent of this section's total appropriation shall be used to inspect and improve tie-downs for mobile homes. (2.8m) Ten percent shall be allocated to the Florida International University center dedicated to hurricane research. (.7m) The remainder is used for grants.

Mobile Home Tie Down Program

Administered by Tallahassee Community College

The program has served 278 MH Parks totaling 44,541 homes since 1999 Vendor contracts have totaled \$48,179,860. In 2017 the program added an individual home component and has service 413 homes totaling \$652,099.

Current backlog is 153 parks and 121 individuals on the waiting list. Many more would be eligible under an expansion to include homes with stucco or other non-removable skirting. With an estimated 5 yr. wait they are no longer accepting applications. Originally entire parks were done under each application. In 2017 the program began allowing individuals to apply. Homes must be built in 1999 or prior years.

Rusted and Broken Anchor



Anchors



New Home Anchor Installation



Manufactured Housing and Mobile Home Mitigation and Enhancement Program 2006

SB1980 established the Florida Comprehensive Hurricane Damage Mitigation Program. (FS215.5586) \$250 Million was transferred from the General Fund to the Department of Financial Services to fund the program. Also created was the Manufactured Housing and Mobile Home Mitigation and Enhancement Program. (FS215.559 (3)(b)1. The initial appropriation for mobile homes was 7.5 million to come from the \$250 Million. The mitigation included problems associated with weakened trusses, studs, and other structural components; site-built additions; or tie-down systems.

2007

The main program was renamed to the My Safe Florida Home Program. It continued to offer free home-retrofit inspections of site-built, single-family, residential property. Financial grants were used to encourage single-family, site-built, owner-occupied, residential property owners to retrofit their properties to make them less vulnerable to hurricane damage. Governor Christ used a line item veto to remove \$15 million which was appropriated for the Manufactured Housing and Mobile Home Mitigation and enhancement Program.

Other Mitigation CDBG-MIT

The State of Florida was allocated \$633 million by HUD under this program administered by the Florida Department of Economic Opportunity. (DOE) Input to the state action plan recommending a small amount of these funds be used for mobile/manufactured housing (MH), was provided but the final allocations do not include any money for housing mitigation.

FEMA Hazard Mitigation Grant Program

Pre-Disaster Mitigation (PDM) Grant
Building Resilient Infrastructure and Communities (BRIC)
Hazard Mitigation Grant Program (HMGP)

None of these appear applicable to MH Housing



Recovery

Division of Emergency Management

FEMA Individual Assistance Grant Program
FEMA Public Assistance Grant Program
Hurricane Michael State Grant

Florida Housing Finance Corporation

Hurricane Michael Recovery Loan Program

Hurricane Housing Recovery Program

Rental Recovery Loan Program (Hurricane Michael)

Department of Economic Opportunity – Office of Disaster Recovery Rebuild Florida Programs

Michael

Irma

Hermine & Mathew

REBUILD FLORIDA HOUSING REPAIR & REPLACEMENT PROGRAM

Mobile/Manufactured Housing Units (MHUs) may be eligible for repair under this program. However, to be cost effective, the MHU to be rehabilitated must be no more than five years old at the time of assistance and the repair costs necessary to rehabilitate the MHU must not exceed \$15,000 (hard and soft construction costs). Any MHU that is older than five years or has an estimated repair cost greater than \$15,000 will require the MHU to be replaced with another MHU.

Hurricane Irma Timeline

- September 2017: Hurricane Irma made landfall in Florida
- November 2017: HUD announced Florida will receive approximately \$616 million to support long-term recovery for Hurricane Irma.
- February 2018: HUD released guidance that must be followed by state and local governments to access the funding and describe which counties will receive the majority (80%) of the funding.
- May 2018: DEO finalized the action plan and submitted to HUD.
- June 2018: HUD approved the State of Florida Action Plan For Disaster Recovery.
- September 2018: DEO launched registration for the Rebuild Florida Housing Repair and Replacement Program
- June 20, 2019: DEO, through an agreement with the Florida Housing Finance Corporation, launched the Rebuild Florida Affordable Workforce Housing Construction Program.

Mobile & Manufactured Home Rebuilding Code

Department of Highway Safety and Motor Vehicles Division of Motor Vehicles

Mobile Homes Governed by Rule 15-2.0081

- (c) Repair or remodeling of a mobile/manufactured home shall require the use of material and design equivalent to the original construction. Structure shall include, but not be limited to, roof system, walls, floor system, windows and exterior doors of the mobile/manufactured home.
- (2) Electrical repair and replacements shall require the use of material and design equivalent to the original construction.
- (3) Plumbing repairs and replacements shall require the use of material and design equivalent to the original construction.



General Considerations Mitigation/Repair/Replacement of Mobile/Manufactured Homes:

Year Built:

Prior to 1976

1976 - 1994

1994/1999 - present

Return on investment:

Home value vs. award

Future resiliency after repair

Park owner changes land use.

Mitigation is Our Best Current Approach

Programs are already in place

- Hurricane Loss Mitigation Program (Tie Downs)
- Manufactured Housing and Mobile Home Mitigation and Enhancement Program

Reduces the likelihood of damage or lowers the severity of damage Can address thousands of homes annually

Current Data is Needed

Current inventory by year of manufacture
Geographic distribution
Associated income levels
Primary vs secondary residence
Owned vs. rented
Private land, leased land, co-op or other
Damage assessments from recent hurricanes



Thanks!

<u>Federation of Manufactured Home Owners of Florida</u> Jerry Durham

Storm Ready Services
Rob Boulware

Tallahassee Community College Jennifer Shaw & Amy Bradbury

<u>Department of Economic Opportunity, Office of Disaster Recovery</u> Drew Winters and Trip Farmer

<u>Division of Emergency Management, Mitigation Bureau</u> Miles Anderson and Brianna Beynart

<u>Florida Housing Coalition:</u>
Gladys Cook, Michael Chaney, Kody Glaser, and Jaime Ross

International Hurricane Research Center Reports and Data

http://www.ihrc.fiu.edu/research/project-articles/hlmp-year-01/http://www.ihrc.fiu.edu/research/project-articles/hlmp-year-02/http://www.ihrc.fiu.edu/research/project-articles/hlmp-year-03/http://www.ihrc.fiu.edu/research/project-articles/hlmp-year-04/http://www.ihrc.fiu.edu/research/project-articles/hlmp-year-05/

Manufactured Housing Advocates

Federation of Manufactured Homes of Florida

FMO District 4 Learning Center

Florida Manufactured Housing Association

Florida Manufactured Home Living

Programs

<u>Tallahassee Community College Mobile Home Tie Down Program</u> <u>Rebuild Florida</u>

Florida Housing Finance Corporation – Disaster Relief Resources and Information