A HURRICANE IS COMING



Presented by Atiba Upchurch Broward Emergency Management Division



Mission Statement

 To safeguard the lives and property of the people of Broward County from major hazards and emergencies through effective leadership, coordination, and implementation of mitigation, preparedness, response, and recovery initiatives with private, governmental and community partners.

Question:

A hurricane's hazards:

Which of the following hazards is most likely to trigger evacuations?

- A. Wind
- B. Rainfall and Flooding
- C. Storm Surge
- D. Tornadoes

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The Hazards of a Hurricane

- 1. Wind
- 2. Rainfall and Flooding
- 3. Storm Surge*
- 4. Tornadoes

We mainly only evacuate for storm surge

Historically, storm surge kills more people than any other hurricane <u>hazard</u>

Hurricane Katrina: <u>Over 1,800 people</u> died mainly due to storm surge. (NOAA)

Countywide Information Gathering Before the Storm

Components with Decision Making

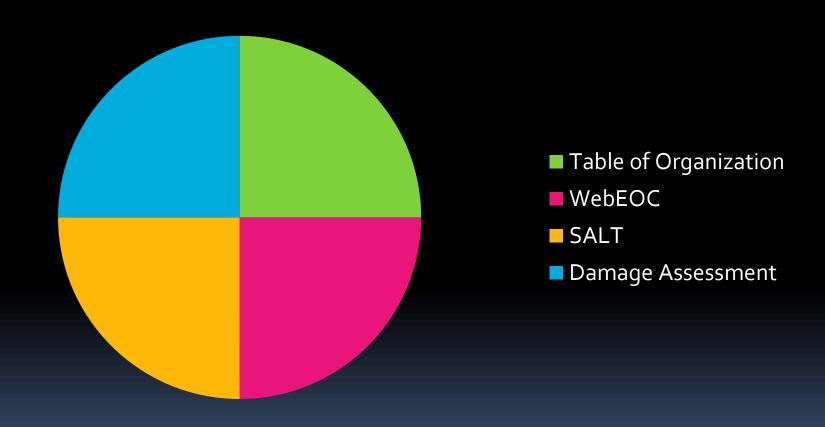
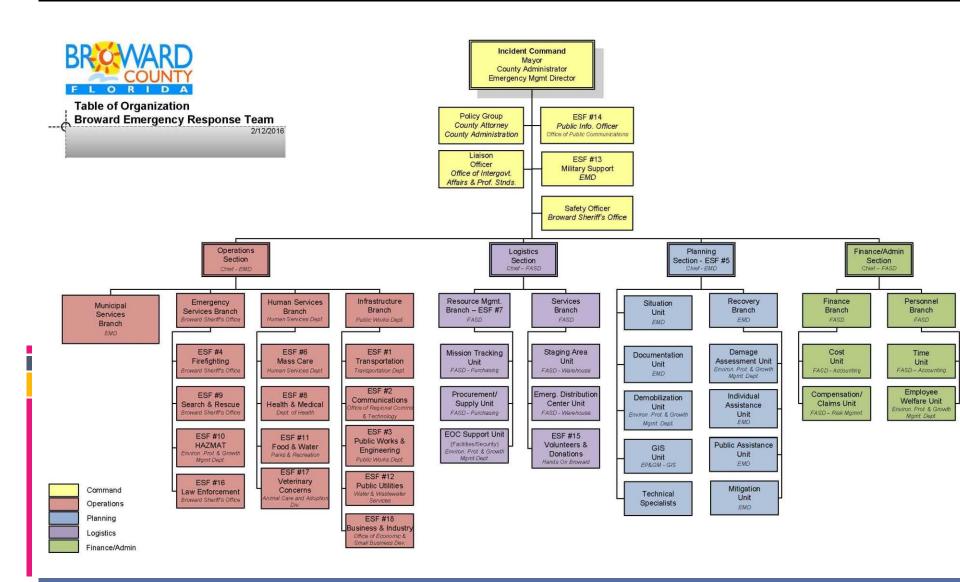


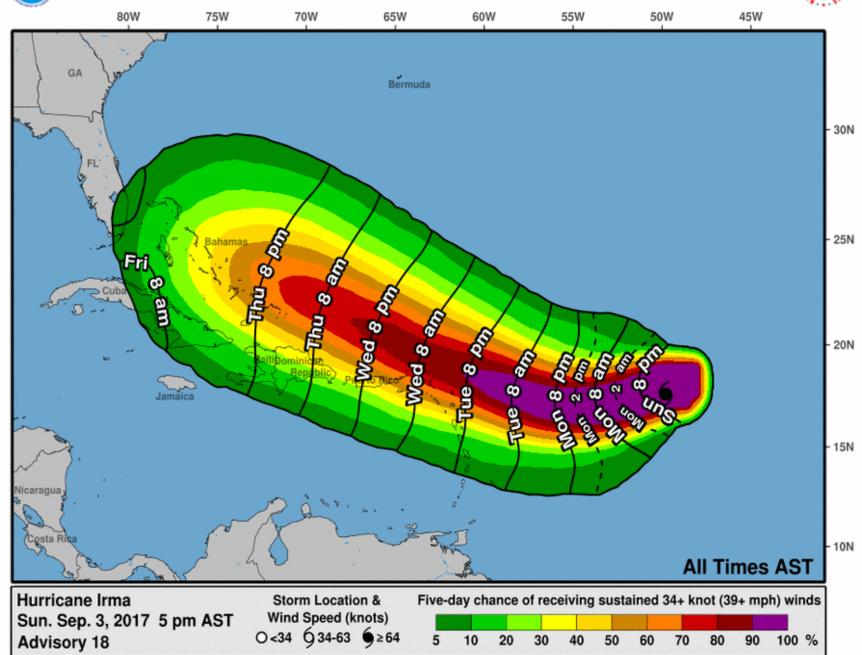
Table of Organization

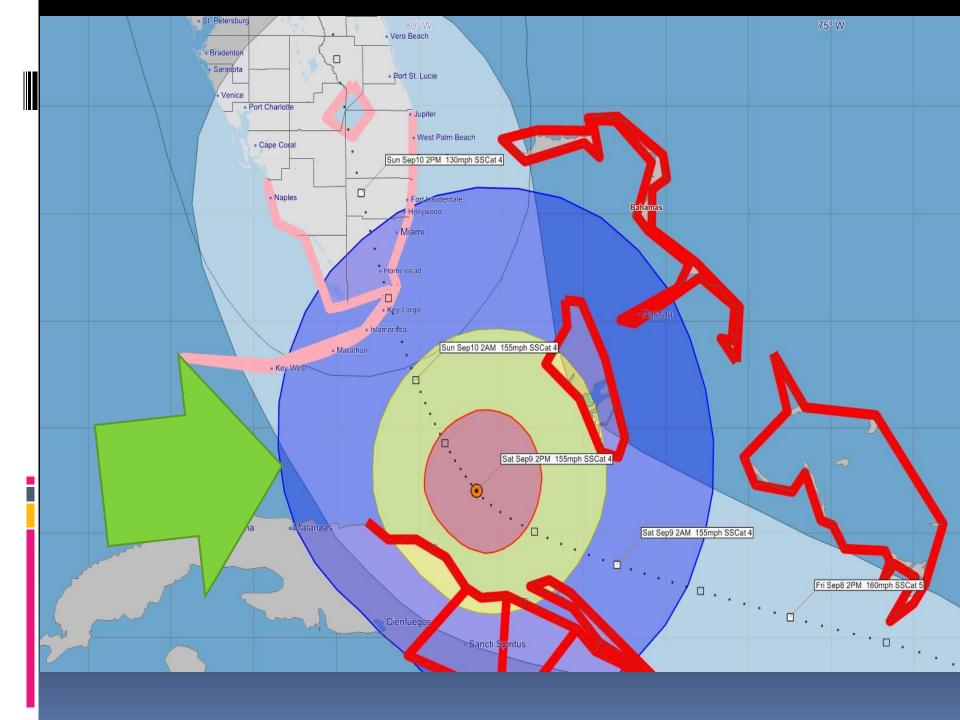


NORA

Most Likely Arrival Time of Tropical-Storm-Force Winds



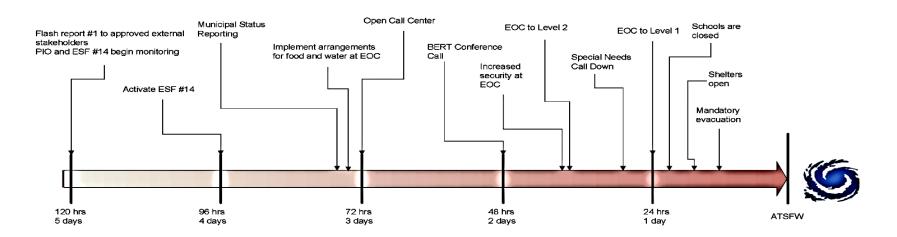


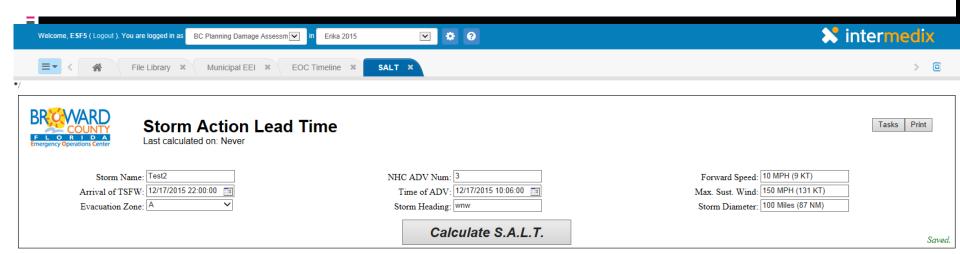


Storm Action Lead Time (SALT)











Broward County

Emergency Operations Center

FLASH REPORT #01

Standard hours phone: 954.831.3900 Non-standard hours: 954.831.3911

FAX: 954.382.5805 ESF5@broward.org

CONTACT INFORMATION:

1. INCIDENT NAME
2. DATE
Hurricane Irma
September 5, 2017
4. BROWARD FOR ACTIVATION LEVEL
Level 3 - monitoring
None.

1130 hours
6. PREPARED BY
Duty Officer

7. SUMMARY OF CURRENT SITUATION AND ACTIONS

As of 11:00am Hurricane Irma is a Category 5 with sustained winds of 180 mph. Some fluctuations in strength are possible, but the storm is not expected to weaken significantly. Broward County is expected to experience impacts from this dangerous hurricane. Tropical storm force winds may be possible as early as Friday night 8:00pm to Saturday morning. Broward County may experience major hurricane force winds depending on the eventual track of the storm.

Broward EOC will go to a level 2 activation beginning at 3:00pm today September 5th, 2017, to include ESF-5 (Planning), ESF-6 (Mass Care), ESF-8 (Health & Medical), and ESF-14 (Public Information). Tomorrow the activation will expand to include the following ESF's: ESF-1 (Transportation), ESF-4 (Fire), ESF-7 (Resource Management Branch), ESF-11 (Food & Water), ESF-16 (Law Enforcement), ESF-17 (Veterinary Concerns), and all Branch Directors. Broward County EOC anticipates going to Full level 1 activation beginning Thursday, September 7th at 7:00am.The County anticipates the emergency hotline (311) will go to 24/7 operations beginning at 8:00am Wednesday, September 6th.

A new incident has been created in WebEOC called Hurricane Irma 2017

Broward County Emergency Management Division wants to emphasize that Hurricane Irma is an extremely dangerous storm, everyone is encouraged to take protective measures as soon as possible.

IMPORTANT NOTE: The following table identifies our *tentative* operations planning schedule. These estimated dates and times have not been confirmed and are likely to change based on the developing situation. *These dates and times are to be used merely as a planning guideline*. The information contained in this advisory is to inform public safety agencies and is *NOT* intended for general, public, or media distribution. Please do not distribution by the ground public agency and in the ground public and the property of t

distribute this information to the general public or tr	te media – the general public may be referred to the b	roward Call Center at 954.851.4000.
Municipal EOC Conference Call	Tuesday, September 5, 2017	1430 hours
BERT conference Call	Tuesday, September 5, 2017	1530 hours
Broward EOC activated to level 2	Tuesday, September 5, 2017	1500 hours
Broward EOC planning for level 1 activation	Thursday, September 7, 2017	0700 hours

8. INCIDENT GRAPHICS AND/OR DESCRIPTION



At 1100 AM AST (1500 UTC), the eye of Hurricane Irma was located near latitude 16.8 North, longitude 58.4 West. Irma is moving toward the west near 14 mph (22 km/h), and this general motion is expected to continue today, followed by a turn toward the west-northwest tonight. On the forecast track, the extremely dangerous core of Irma is forecast to move over portions of the northern Leeward Islands tonight and early Wednesday.

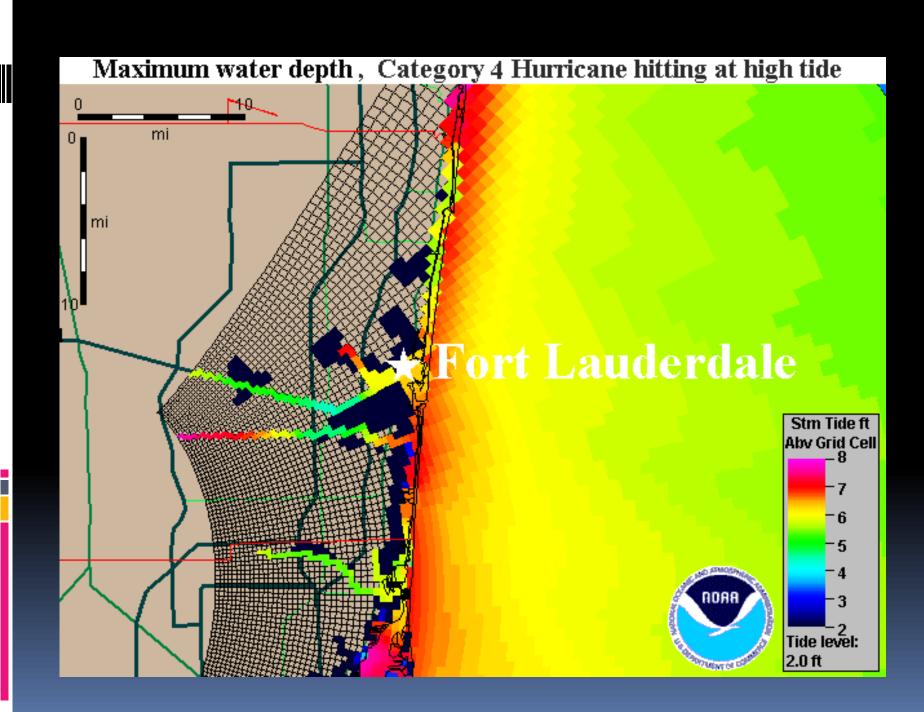
Reports from an Air Force Hurricane Hunter aircraft indicate that the maximum sustained winds are near 180 mph (285 km/h) with higher gusts. Irma is an extremely dangerous category 5 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some fluctuations in intensity are likely during the next day or two, but Irma is forecast to remain a powerful category 4 or 5 hurricane during the next couple of days.

Hurricane-force winds extend outward up to 60 miles (95 km) from the center and tropical-storm-force winds extend outward up to 160 miles (260 km). The latest minimum central pressure reported by reconnaissance aircraft is 931 mb (27.50 inches).

9. APPROVED BY	10. TITLE	11. DATE/TIME
Miguel Ascarrunz	Director, BEMD	September 5, 2017/ 11:30 hours

Saffir Simpson Hurricane Wind Scale

Category	Sustained Winds	Types of Damage Due to Hurricane Winds
1	74-95 mph 64-82 kt. 119-153 km/h	Very dangerous winds will produce some damage: Well-constructed frame homes could have damage to roof, shingles, vinyl siding and gutters. Large branches of trees will snap and shallowly rooted trees may be toppled. Extensive damage to power lines and poles likely will result in power outages that could last a few to several days.
2	96-110 mph 83-95 kt. 154-177 km/h	Extremely dangerous winds will cause extensive damage: Well-constructed frame homes could sustain major roof and siding damage. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Near-total power loss is expected with outages that could last from several days to weeks.
3 (major)	111-129 mph 96-112 kt. 178-208 km/h	Devastating damage will occur: Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to weeks after the storm passes.
4 (major)	130-156 mph 113-136 kt. 209-251 km/h	Catastrophic damage will occur: Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.
5 (major)	157 mph or higher 137 kt. or higher 252 km/h or higher	Catastrophic damage will occur: A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Most of the area will be uninhabitable for weeks or months.





Mandatory Evacuation Areas

PLANA

-Typically a Category 1-2 hurricane:

All residents in the area east of the Intracoastal Waterway

PLAN B

-Typically a Category 3, 4 or 5 hurricane:

All residents in the area east of U.S. 1

And.....All Mobile Homes



Special Medical Needs shelters are appropriate for someone who:

- Has minor health/medical conditions that require professional observation, assessment, and maintenance
- Requires assistance with personal care and/or assistance with medications but does not require hospitalization or a medical institution
- All residents seeking shelter in a Special medical needs facility will be reviewed on an individual basis to determine the best placement for their needs.

Vulnerable Population Registry

...a joint partnership between Broward County and its municipalities www.broward.org/atrisk







Who is it for?

- People who would be at risk after a storm, especially those with a disability, frailty or health issue.
- Does not guarantee that you will be provided services or placed on a priority list.
- First responders use this database to prioritize initial response.
- Register online at <u>www.broward.org/atrisk</u> or by calling the Broward County Call Center at (954) 831-4000 or 311

Hurricane Irma Event Timeline

- Tuesday, September 5- EOC to Level 3 (Monitoring & Assessment)
 - EMD Staff (*1st Flash Report issued)
 - *State Conference Calls began on September 3.
- Tuesday, September 5 3 PM EOC went to a Level 2 (Partial Activation): include ESF-5 (Planning), ESF-6, (Mass Care), ESF-8 (Health & Medical), and ESF-14 (Public Information).
- Wednesday, September 6, 11:00 AM Mayor signs Declaration of Local State of Emergency
- Thursday, September 7 7 AM; Broward EOC Full Scale Activation (Level 1)
- Thursday, September 7 11 AM— Broward County under Hurricane Watch
- Thursday, September 7 12:00 PM Mandatory evacuations ordered for Zones A & B. Shelters opened shortly thereafter.
- Thursday, September 7 11:00 PM Broward County under Hurricane Warning

Hurricane Irma Event Timeline

- <u>Saturday, September 9, 2 PM —</u> Curfew issued for Broward County
- <u>Saturday, September 9, 4 PM –</u> Broward County EOC Lockdown due to tropical storm force winds
- <u>Sunday, September 10, 8:00 PM</u> Hurricane Warning lowered to Tropical Storm Warning
- Monday, September 11 5:00 AM Tropical Storm Warning Cancelled
- Monday, September 11, 10 AM- EOC Curfew and EOC Lockdown lifted
- Monday, September 11, 11:00 PM EOC activation lowered to Level 2
- <u>Saturday, September 16 at 8 PM EOC</u> to normal operating condition (Monitoring)

Impacts after the storm

Local State of Emergency

State Emergency Declaration

Local, State, Federal Disaster

Preliminary

Dec

Disaster Declaration

Presidentia

Local

imilial Damage Assessment

American Red Cross PDA \$ ⊳Pu

▶Public Assistance

>Individual Assistance

Impact

Assessment

Response

Recovery

Reconstruction

Home Damage Assessment Program



Report Your Damage

Three methods:

Internet

Cell Phone

Emergency Hotline

Data Entry Screen

BROWARD	Neighborhood Damage Assessment
	reignoonlood Danage Assessment
1 Report the Address House Number: Direction: Stre	
2 Select the Damage/Flood Level	
NO/MINOR DAMAGE HABITABLE	MAJOR DAMAGE HABITABLE MAJOR DAMAGE HABITABLE MAJOR DAMAGE UNINHABITABLE DESTROYED
Damage Level:	Flood Level:
Daniage Level.	Flood Level.
Submit Reset	

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What the pictures say.





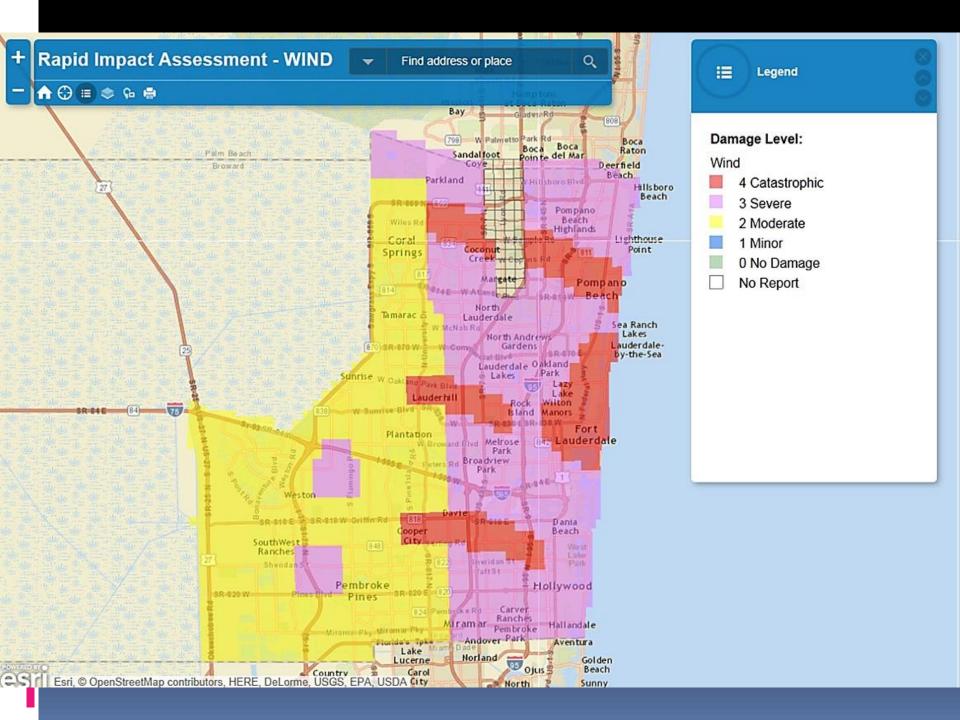
With tarps, you may be able to stay in your home.

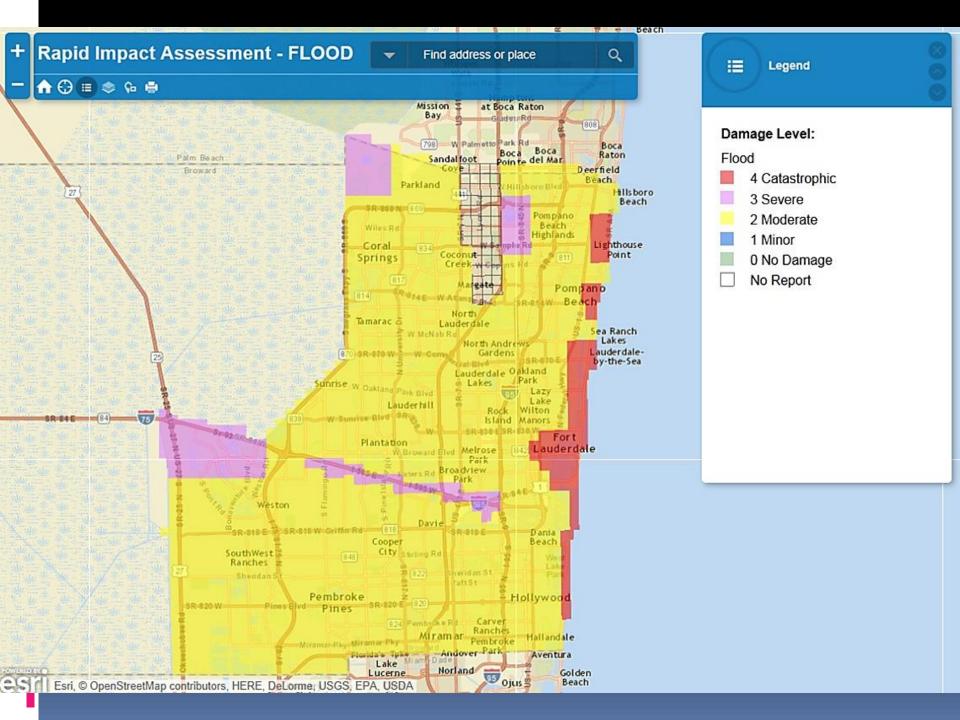
Need long-term housing.



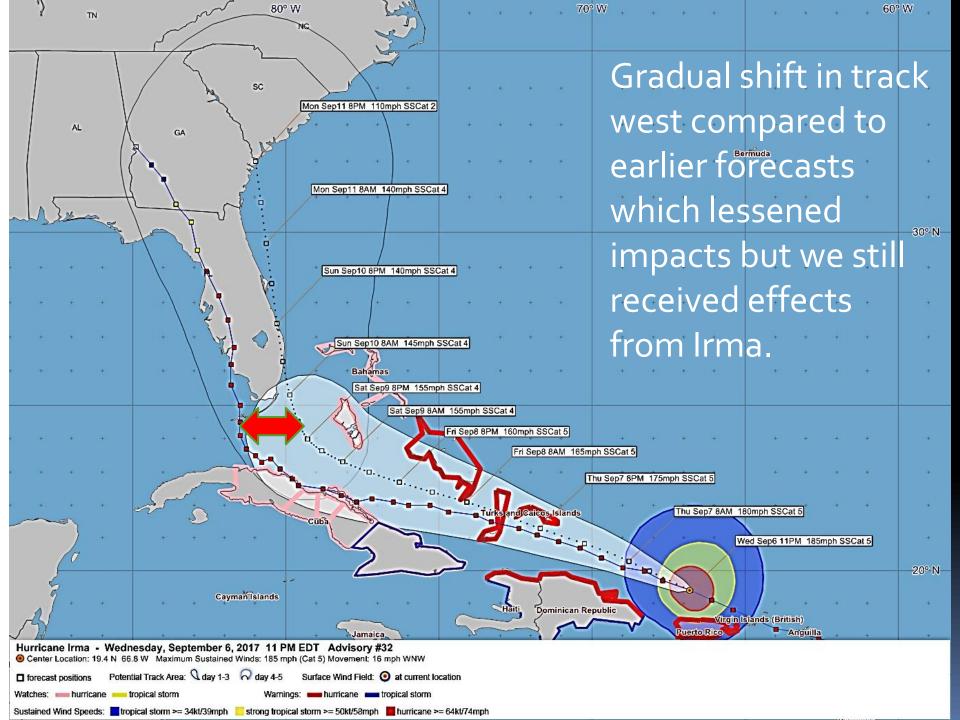


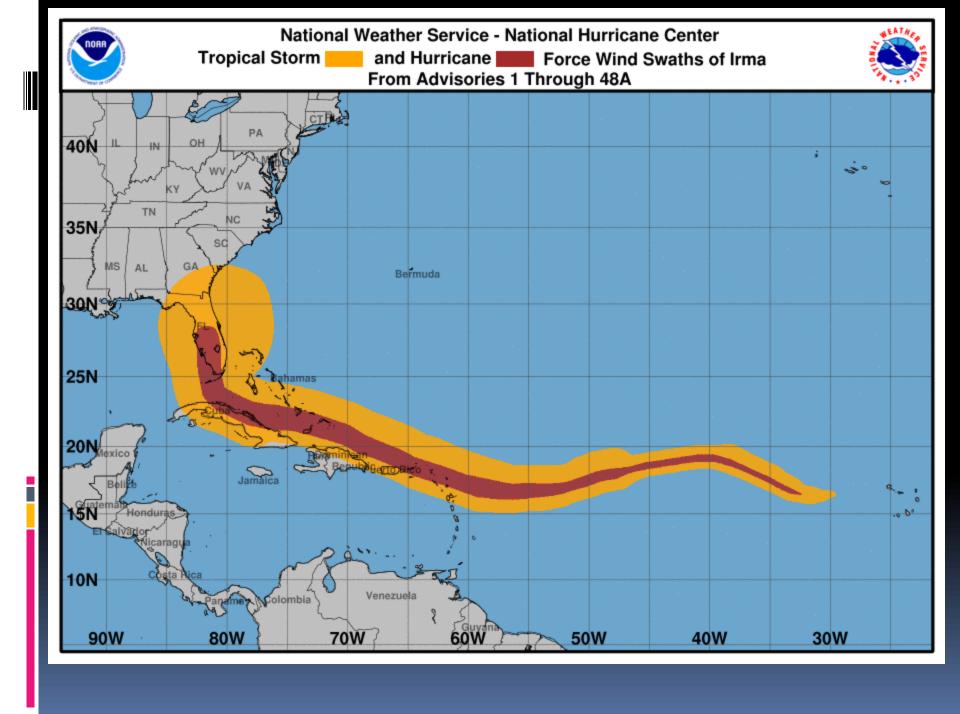
Longterm housing is needed.





Hurricane Irma Impacts in Broward ounty 174500 09096 09681











 Multiple tornados impacted Broward County

 Inundation up to 2 ft limited to beachfront areas within a half-mile of the coast



Broward Emergency Management Division

www.broward.org/emergency

www.broward.org/hurricane

Florida Division of Emergency Management

www.floridadisaster.org

FEMA

www.fema.gov

READY (Ready America/Ready Business)

www.ready.gov

Twitter - @readybroward

Facebook – Broward County Emergency Management