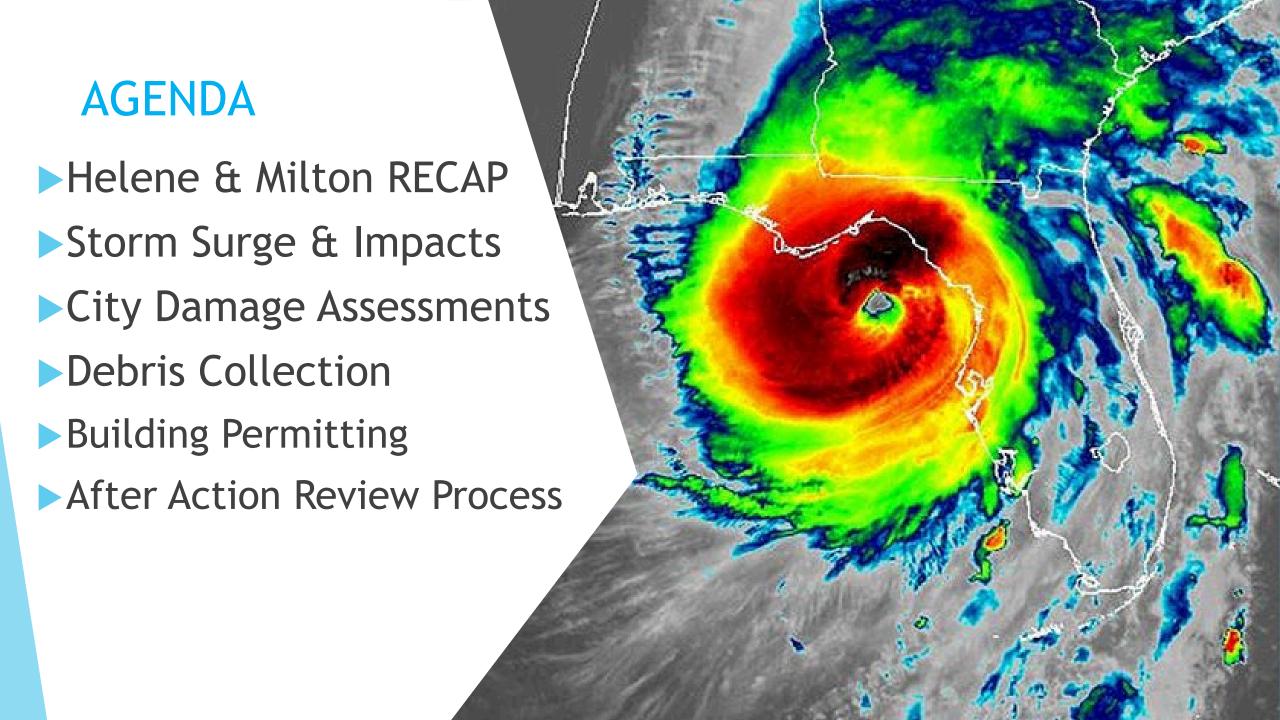
# HELENE & MILTON COUNCIL UPDATE

NOVEMBER 19, 2024





# HURRICANE HELENE

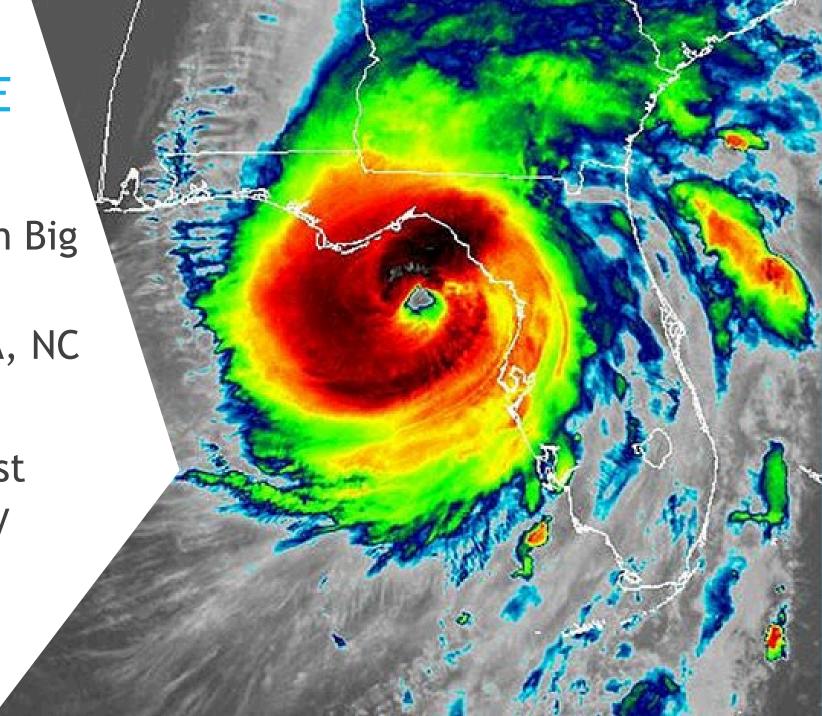
Thursday, Sept. 26

Landfall as Cat 4 in Big Bend region

Devastated TN, GA, NC

Over 230 deaths

May be the costliest storm in US History (\$200-250 Billion)



# HURRICANE HELENE

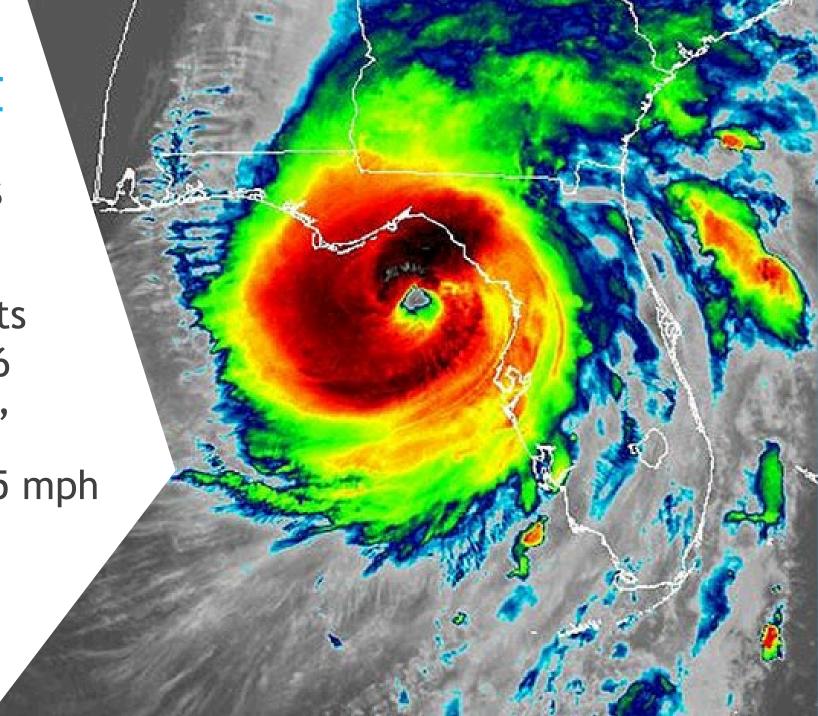
Venice Area Impacts

Level A Evacuation

Storm Surge Impacts began at 7AM, 9/26

► Very little rain 1-2"

► Wind gusts up to 65 mph



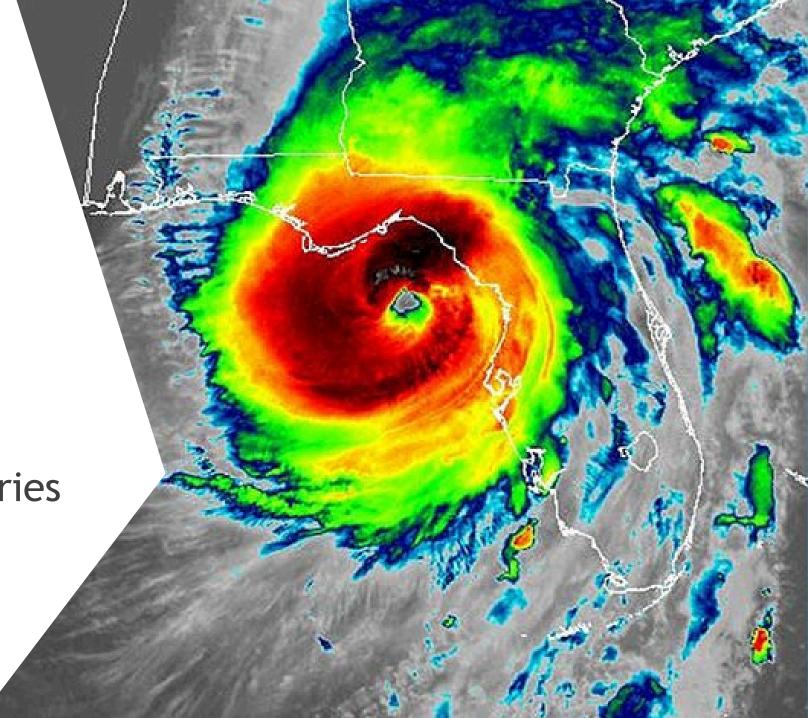
# HURRICANE HELENE

Venice Area Impacts

Poor EvacuationCompliance

Over 50 High-WaterRescues Performed

Remarkably, no injuries or deaths locally



# STORM IMPACTS - TIMELINE

- Friday, Sept. 27
  - ► High water rescues continued
  - Damage assessments and cleanup activities started
  - Contractor secured to open Flamingo Ditch and Outfall 2, as soon as surge receded
  - Coastal flooding fully receded by Friday afternoon



# STORM IMPACTS: HURRICANE HELENE

What Actually Happened?

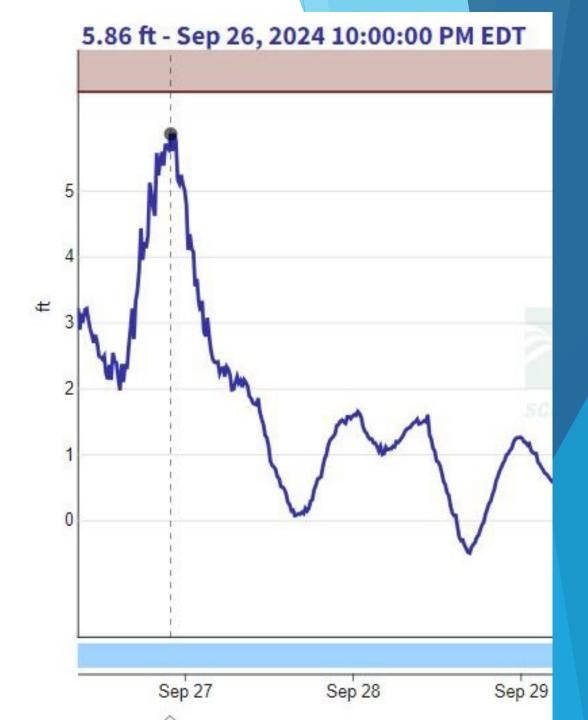
- PRIMARILY A STORM SURGE EVENT
  - NOAA Surge Warning was 4-7 ft.
  - Actual Storm Surge of approx. 6 ft.
  - Flood Levels measured up to +/-10 ft. in some areas due to wave action

# **STORM SURGE:**

# Coastal storm surge near 6 ft.

►USGS Gauge at Crow's Nest Marina = 5.86 ft.



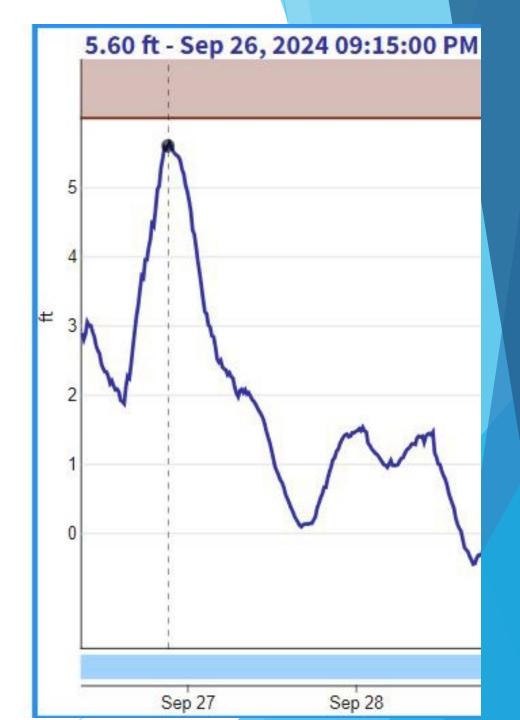


# **STORM SURGE:**

# Coastal storm surge near 6 ft.

► USGS Gauge Curry Creek and U.S. 41 = 5.6 ft.



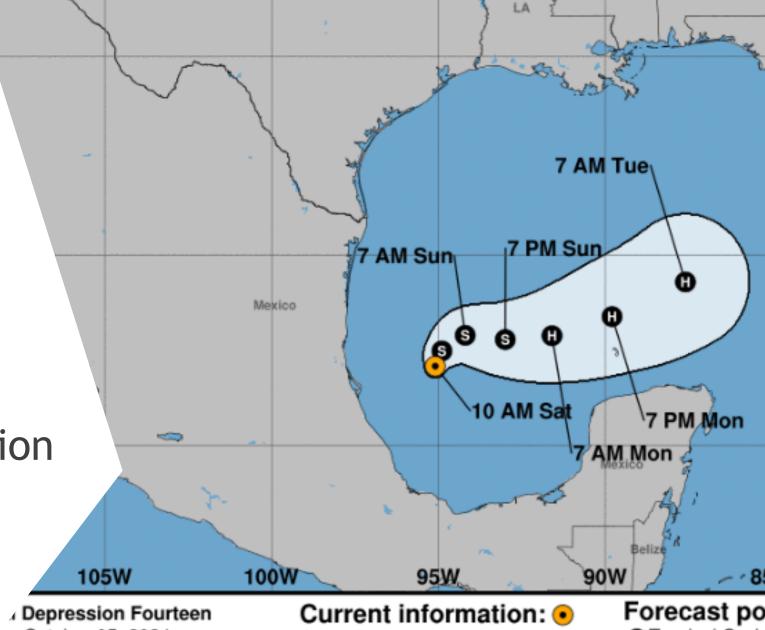


# POST-HELENE RECOVERY

- One-week post-storm
- Damage Assessment Completed
- Debris Collection contractor activated
- City repairs and cleanup started
- Recovery meeting scheduled
- ► AND then.....

# **Tropical Depression 14**

- > Saturday, Oct. 5
- > 9-days after Helene
- ► Back-to-back threat
- From Storm Recovery, back to Storm Preparation
- Resources limited
- Employee Fatigue

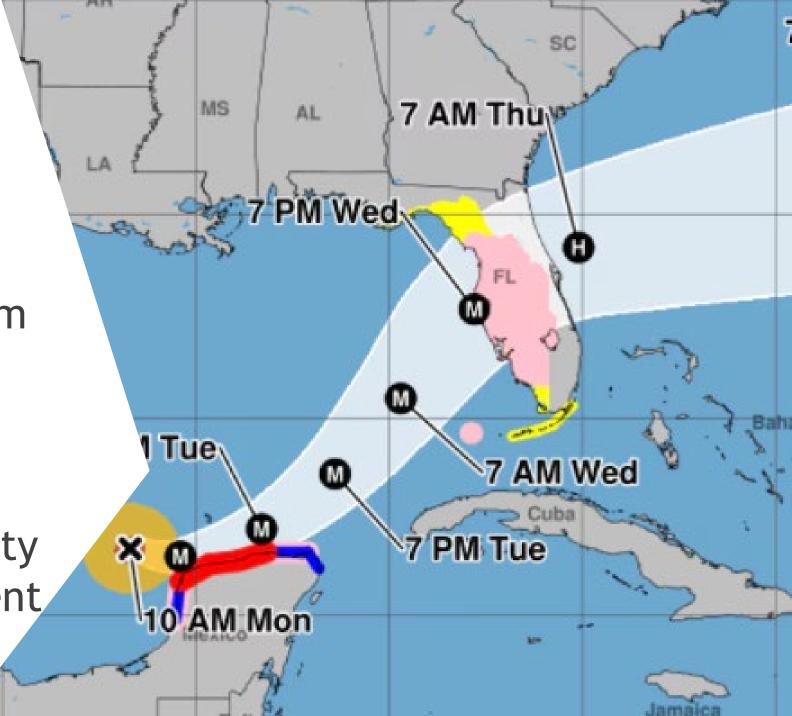


# ∡ay October 05, 2024

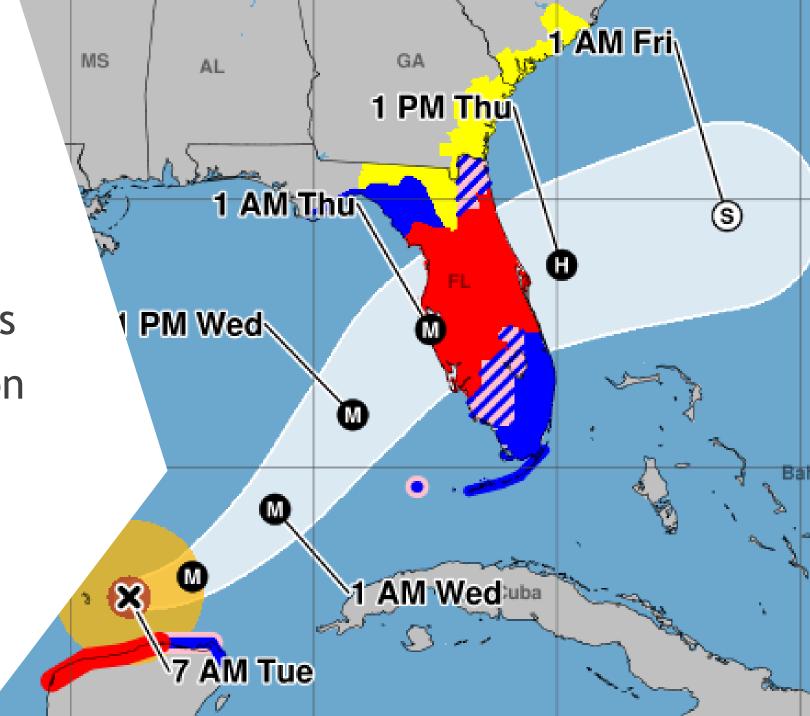
M CDT Advisory 1 NS National Hurricane Center Center location 22.1 N 95.1 W Maximum sustained wind 35 mph Movement NNE at 3 mph

 Tropical Cycle Sustained winds S 39-73 mph H

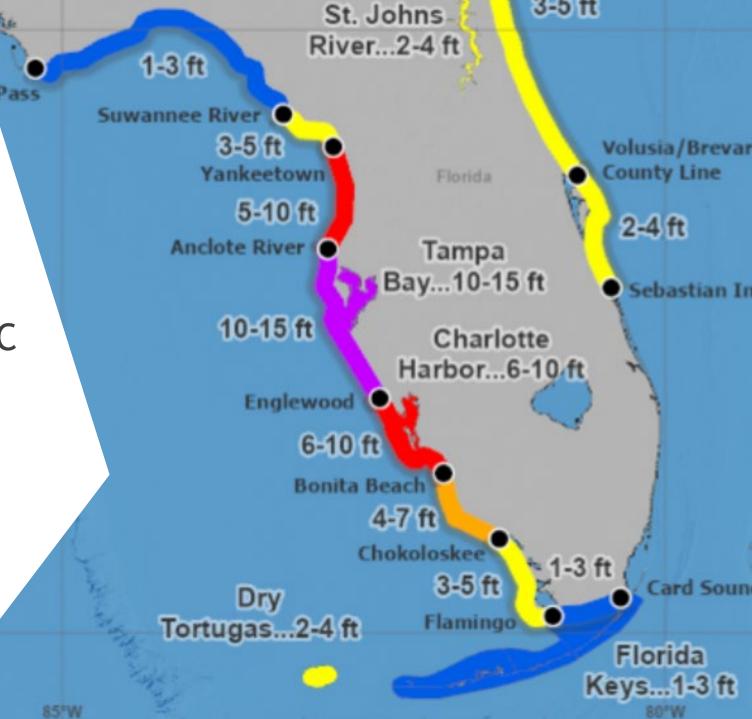
- Monday, Oct. 7
- ► 11-days after Helene
- Switched fully to Storm Preparation
- Rapid Intensification (CAT 5, 175+ mph)
- Priority #1: Get the City Ready for another event



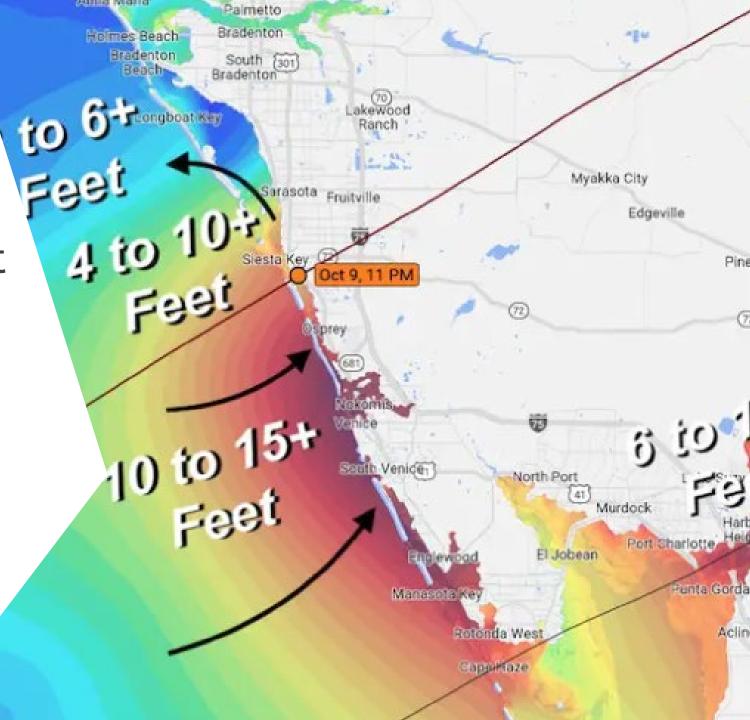
- Tuesday, Oct. 8
- Forecasting for <u>catastrophic</u> impacts
- Very good evacuation compliance
- ► Full EOC Activations
- City as prepared as possible



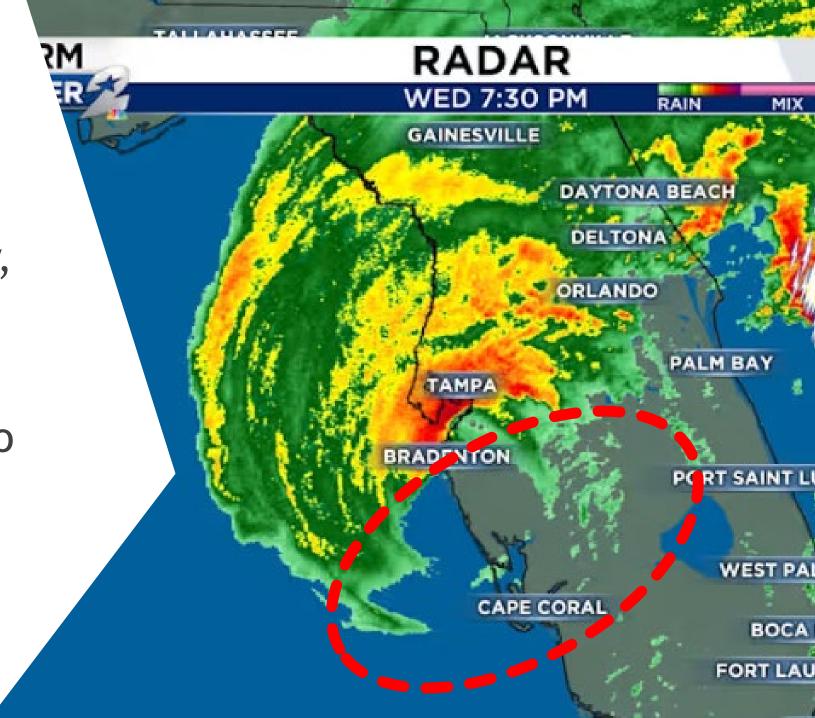
- Surge Forecast of 10 15 ft.
- Evacuation Levels A, B, & C
- Evacuation of Fire Sta. 52
- Evacuation of Water Plant
- Full shutdown of potable water system



- Surge Models Consistent
- ► 15+ Feet surge
- Ft. Myers Beach, Ian Surge was 12 ft.



- Landfall Wednesday, Oct. 9, at 8:30 pm
- ► CAT 3 at landfall
- Dry Air intruded into southern storm quadrant



► 126 Tornado Warnings

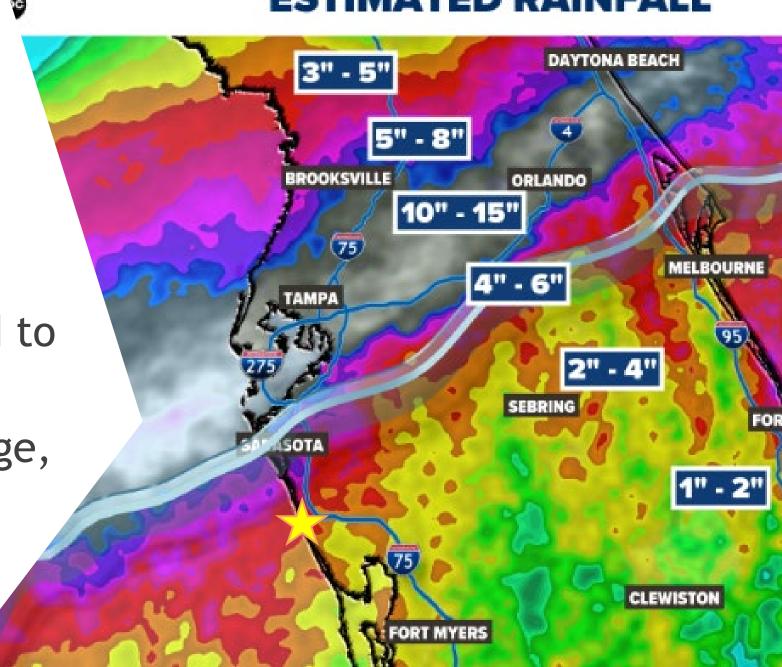
► 18.8 inches of Rain reported in St. Pete



## **ESTIMATED RAINFALL**

# **VENICE IMPACTS**

- Very little rainfall
- Actual Winds under 100mph (CAT 1)
- > Actual Surge Reduced to 6-7 ft. (1/2 Forecast)
- Still significant damage, more than Helene



# **MILTON STORM SURGE:**

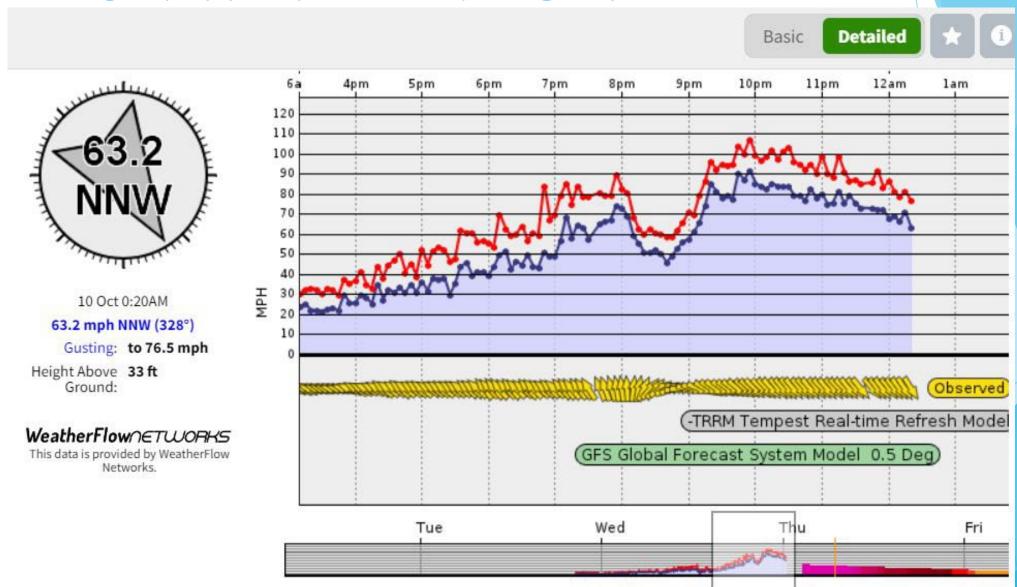
# Coastal storm surge over 6 ft.

- ►USGS Gauge at Hatchett Creek = 6.28 ft.
- Flood Levels up to 10+ ft. from wave action

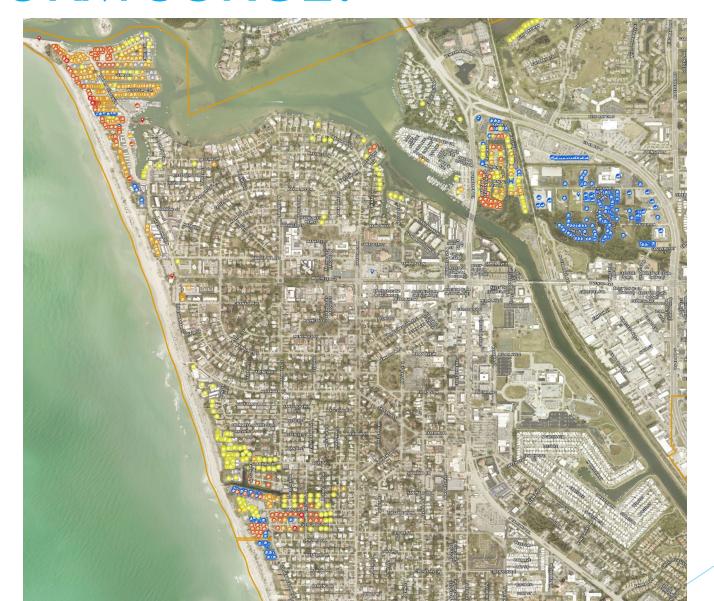




# MILTON WIND DAMAGE:



# **STORM SURGE:** Same locations as Helene



# Legend

### Commercial

### Damage

- Assigned
- None
- Affected
- Minor
- Major

### Public

status

- Assigned
- Category: E

### Residential

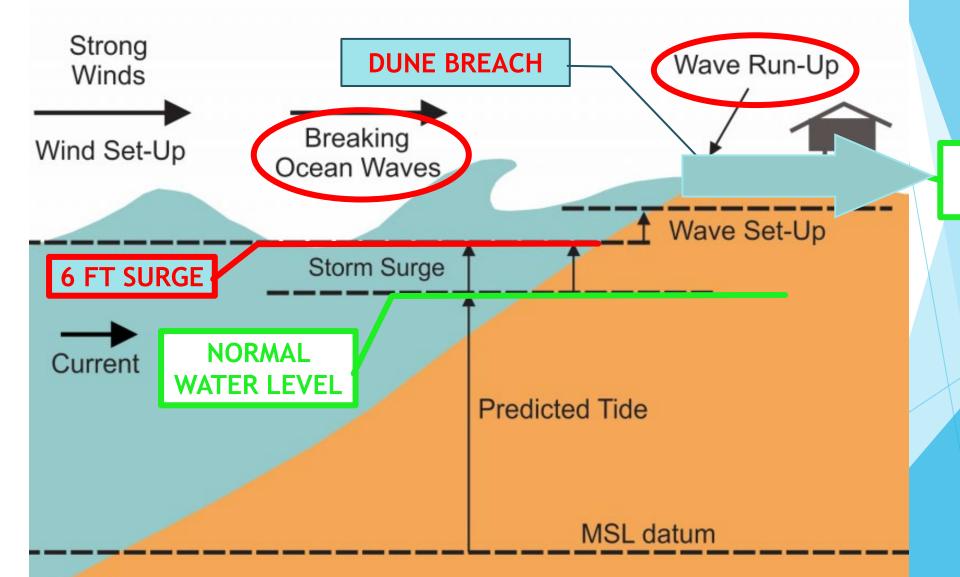
### Damage

- Assigned
- None
- Affected
- Minor
- Major
- Destroyed
- City
  Boundary

# Plus: WIND Damage, Widespread Power Loss, Communication Loss

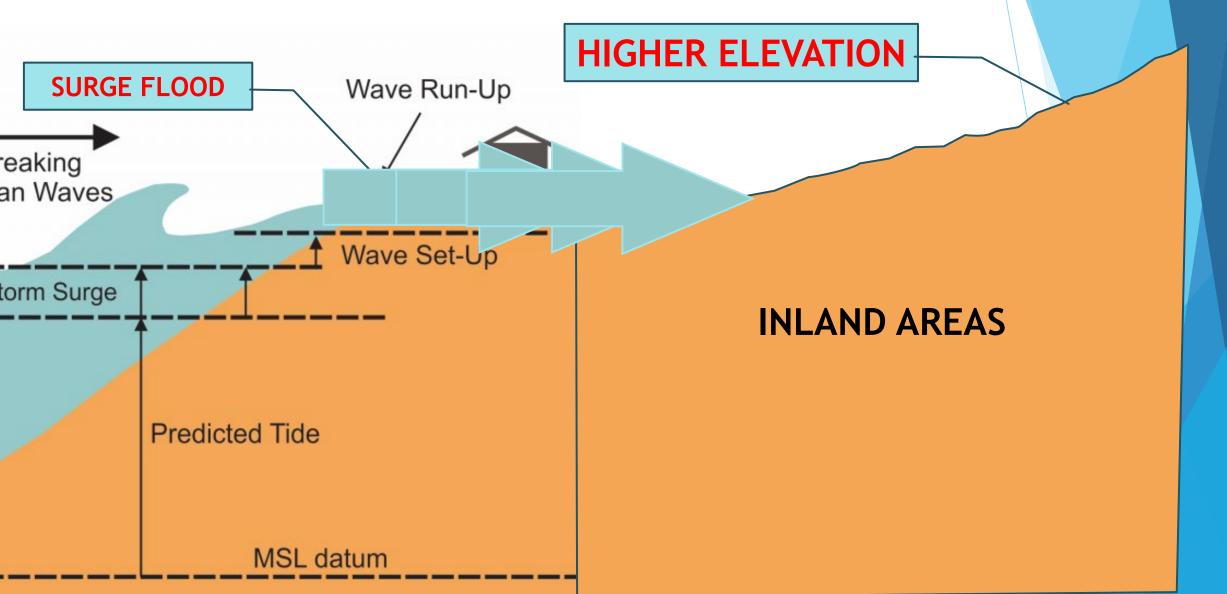


# STORM SURGE: 6 FT...How did we get to 10 FT?

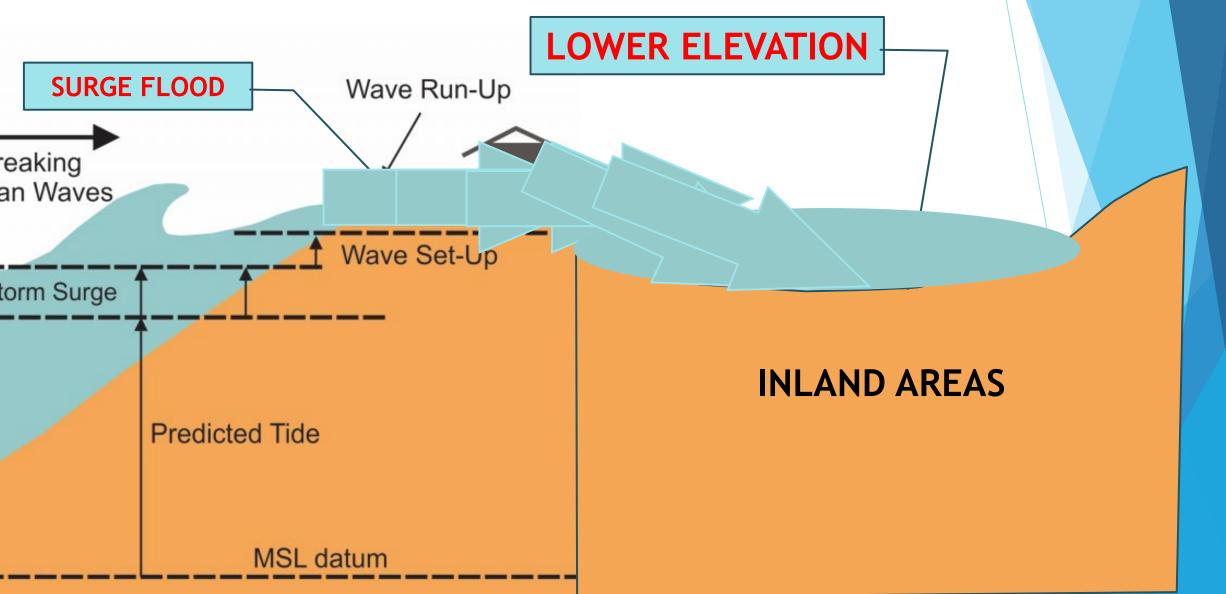


BEACH DUNE 8.4 FT

# STORM SURGE: 6 FT... How did we get to 10 FT?



# STORM SURGE: 6 FT... How did we get to 10 FT?



# STORM SURGE: BEACH DUNE BREACHED - Sept. 26



Tarpon
Center
4:15 pm

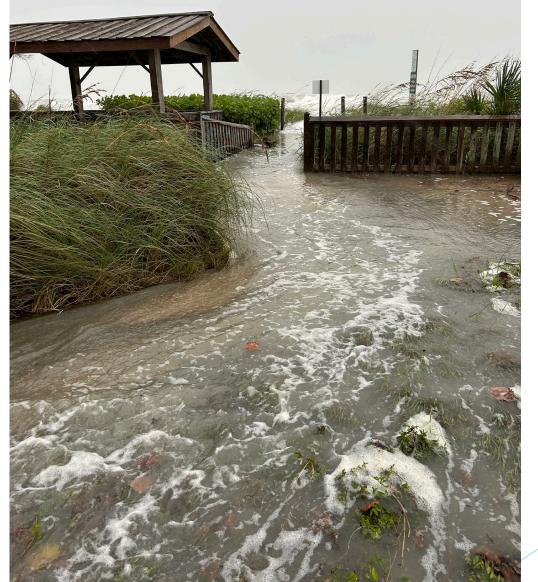
# STORM SURGE: BEACH DUNE BREACHED



# STORM SURGE: BEACH DUNE BREACHED 4:35 PM



# STORM SURGE: BEACH DUNE BREACHED



Venice Villas 4:35 PM

# STORM SURGE: BEACH DUNE BREACHED



# **STORM SURGE:**

Fishing Pier & North Brohard Beach (5:00pm)



# STORM SURGE: BEACH DUNE BREACHED



# **STORM IMPACTS:**

- Storm Surge flooding was primary issue from Helene and Milton
- Venice impacts focused on two factors: coastal areas with lower elevations
- Regionally consistent: Nokomis, Casey Key, Manasota Key, Siesta, etc.

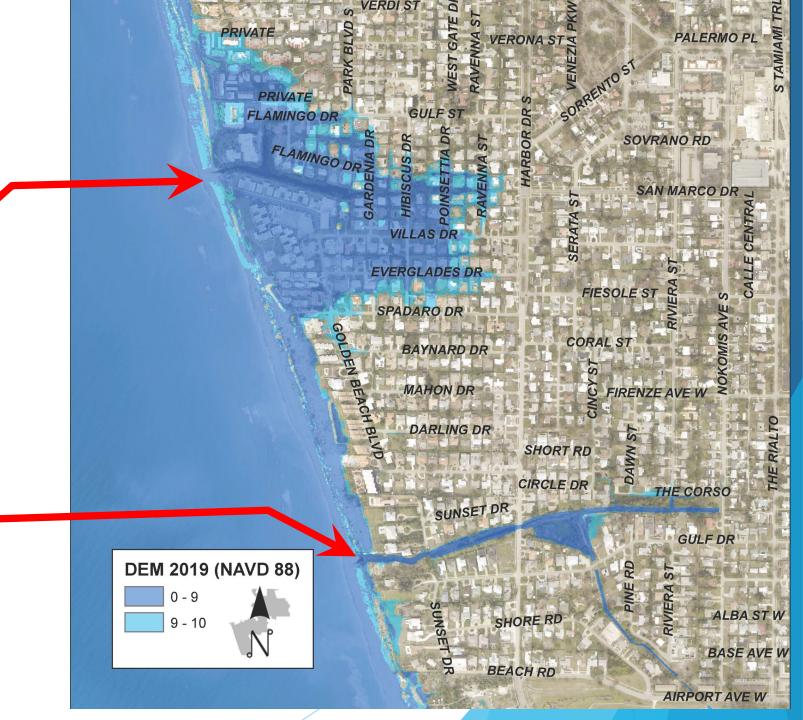
# WHY IS THIS SO IMPORTANT?

- Make informed decisions for their families and property
- This surge was NOT a once-in-a-lifetime event; it can and will happen again
- ELEVATION is the best protection

# **STORM SURGE:**

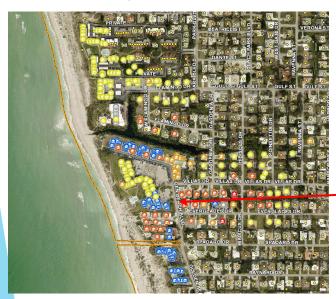
Flamingo Ditch Outfall Homes and Roads at 4-9 ft. Elevation

Deertown Gully Outfall Homes and Roads at 12-15 ft. Elevation



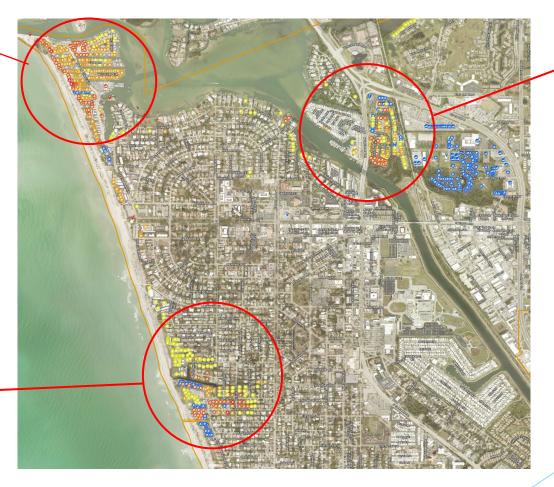
# CONTRACTOR OF THE PARTY OF THE

### Tarpon Center



Golden Beach

# Private Property Impacts Storm Surge





Harbor Lights and Venice Bay

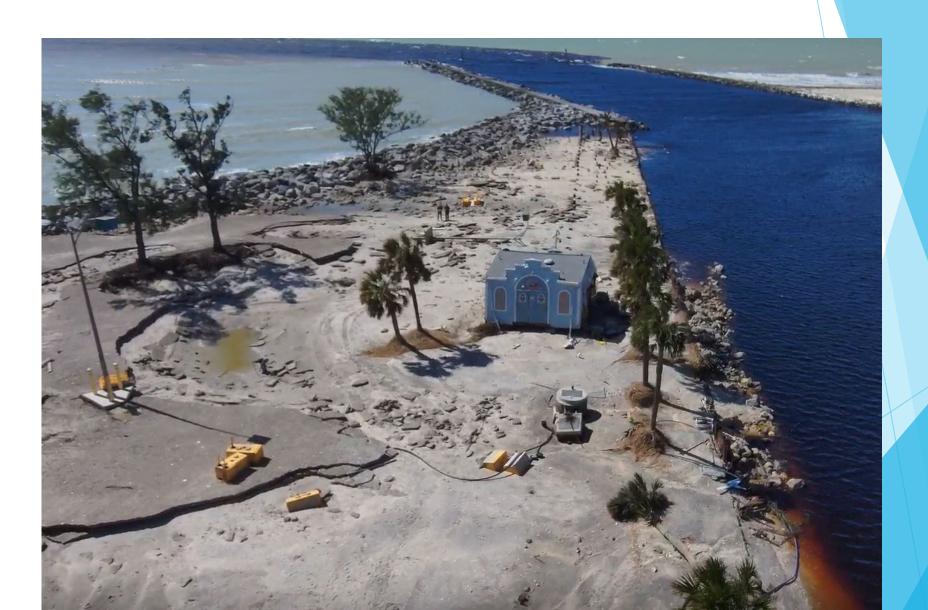


# Private Property Damage - SAND

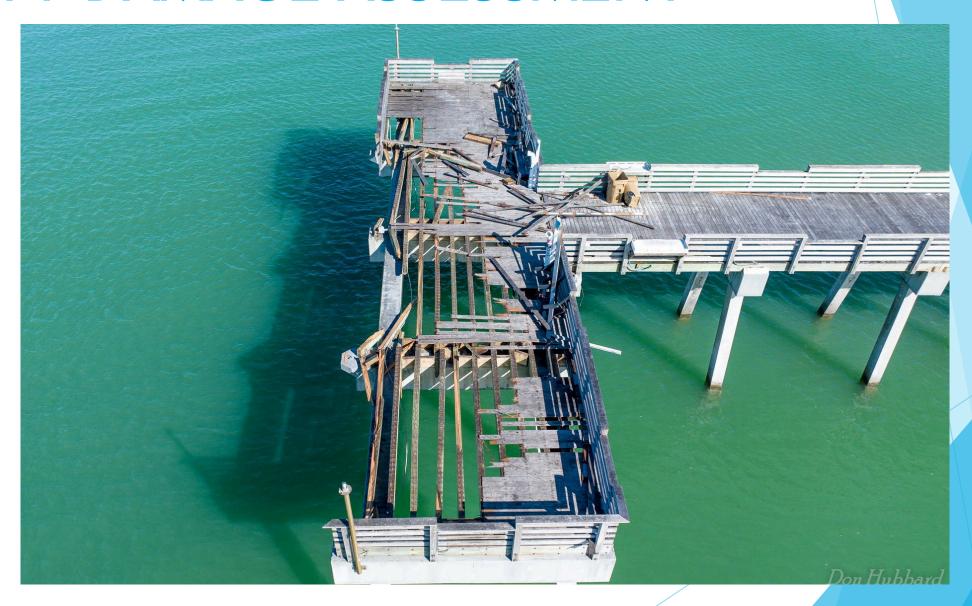


# Private Property Damage - SAND





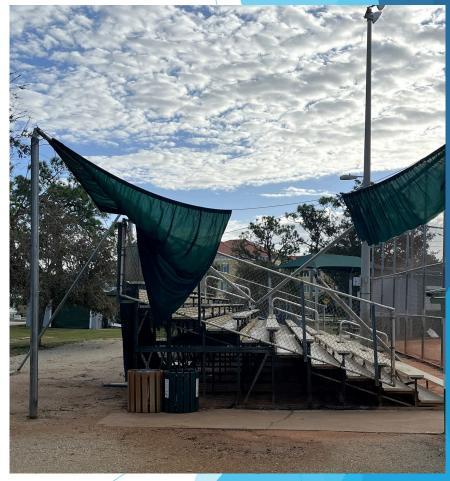
		HELENE	MILTON
COST ESTIMATES 11/6/2024			
CAT -A	DEBRIS	\$ 9,000.00	\$ 6,400,000.00
CAT-B	EMERGENCY PROTECTIVE MEASURES	\$ 300,000.00	\$ 500,000.00
CAT -C	ROAD AND BRIDGES		
CAT -D	WATER CONTROL FACILITIES (STORMWATER)	\$ 200,000.00	\$ 150,000.00
CAT -E	BUILDINGS AND EQUIPMENT		\$ 2,700,000.00
CAT-F	UTILITIES SYSTEMS	\$ 750,000.00	\$ 700,000.00
CAT -G	RECREATIONAL (PARKS) & OTHER	\$ 6,000,000.00	\$ 2,100,000.00
	TOTAL	\$ 7,259,000.00	\$ 12,550,000.00















- > All parks, beaches, roadways now open
- Lift Stations and Wells functional
- Athletic fields partially open
- Airport T-Hangers partially open
- >29 facilities damaged, 8 "turn-key"
- City Staff focused on recovery to make the City safe and beautiful

## **Debris Collection**

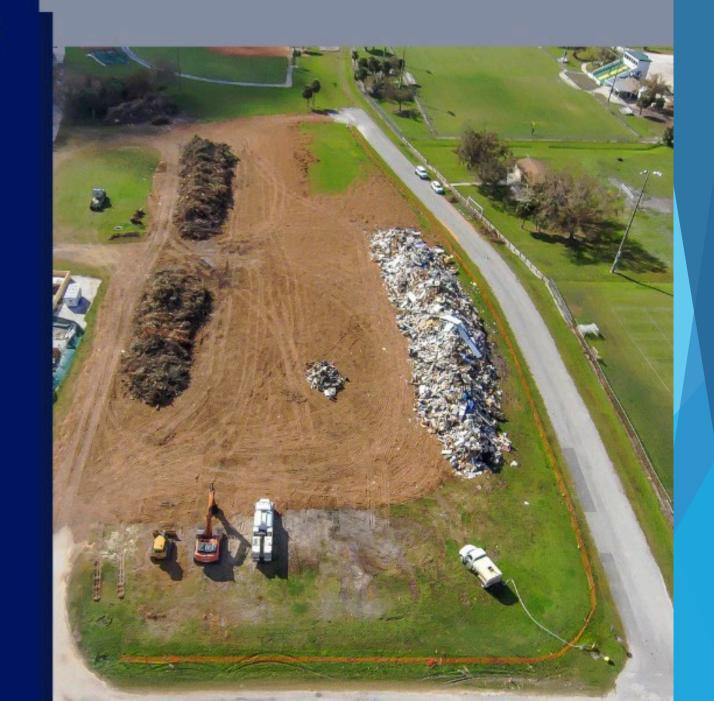
- Hurricane Debris Collection is normally a 90+ day operation
- Debris Collection had started after Helene, but had to be paused due to Milton
- After Milton, City worked to secure a new debris vendor and did an emergency rate increase to keep resources here

#### **DEBRIS COLLECTION**

Collections to date

61,307y<sup>3</sup>

the equivalent of filling 18.5 Olympic-sized swimming pools





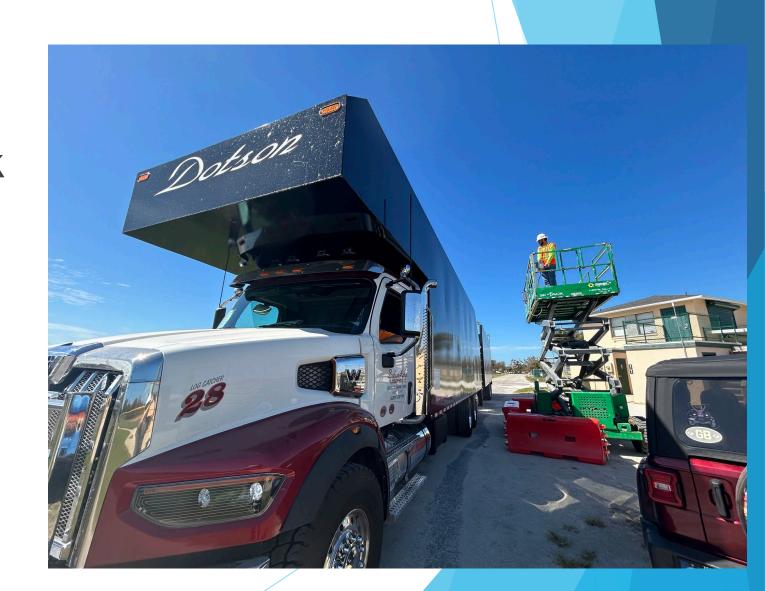






## **Debris Collection**

- Most expensive part of Recovery (\$6M)
- Highly Specialized Work
- Typically, will be reimbursed, IF we comply with all FEMA guidelines
- Reimbursement can take years



- Building Dept. staff must perform Damage Assessment Immediately Post-Storm
- City is responsible for Building Permitting and Compliance with Federal and Local floodplain regulations (50% Rule)
- All damaged structures inspected, notices delivered to every property affected in the Special Flood Hazard Area

- ▶ 44 CFR 59.1 Definition: "Substantial damage" means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal 50 percent of the market value of the structure before the damage occurred.
- > 50% Rule is not a new process
- Widespread application after Helene and Milton

- Applies to ALL buildings in a flood hazard area, regardless of whether the building was covered by flood insurance.
- ALL repairs must be accounted for <u>at the</u> <u>same time</u> to ensure compliance with 50% rule
- If the repairs cannot be performed within the 50% threshold, the structure must be brought into code compliance



- Every situation is different (Single family, Condominiums, Mobile Homes)
- Building Dept. meeting directly with individuals, contractors, & HOAs
- Helping residents through the process, without compromising the rules

Why is this so important?



NFIP participation is the single greatest protection that the City provides its residents

- Financial recovery support for residents
- Insures Structures and Contents at discounted rates (25% in April)
- Required for FDIC insured mortgages
- Increased Cost of Compliance Coverage
- Required for Federal grants/assistance
- City responsible for implementing all FEMA rules consistently and fairly



# AFTER ACTION REVIEW (AAR)

- Purpose: Provide essential feedback to determine City CEMP and Department COOP strengths, weaknesses & opportunities for improvement.
- 1. What was expected to occur?
- 2. What really happened?
- 3. What went wrong and why?
- 4. What went well and why?

## DATA COLLECTION ANALYSIS

Direct Observation & Facilitated Group Discussion

- ► 1<sup>st</sup> AAR Data Collection Meeting held Nov. 1st
- Surveys Collect data from subject matter experts and pre-defined groups to gain critical information on: Planning/ Operations/ Logistics/ Finance
- ► Identify Common Concerns and Issues

## **DEVELOP OBSERVATIONS**

- ▶1) Topic
- >2) Specific Assertion
- >3) Effect
- What happened
- Why it happened
- And the effect
- Recommendation(s)

# OBSERVATION REVIEW BY SUBJECT MATTER EXPERTS

Reconvene as a group for review briefing and discuss:

- Major Takeaways
- Lessons Learned
- Recommended Actions

# COORDINATION WITH THE CITIZEN ADVISORY BOARD (CAB)

- Incorporate Community Concerns
- Share Information on Emergency Response Procedures
- Review Lessons Learned
- Develop Recommended Policy Changes

## **CONCLUSIONS**

- Hurricanes Helene and Milton caused the worst surge events Venice has ever seen
- Impacts were significant, but less than predicted, no injuries or loss of life
- The City is actively assisting residents through the Recovery Process



## CONCLUSIONS

- Hurricanes always come with Challenges, Disruptions, and Property Damage
- The City's role:
  - Help you prepare in advance
  - Keep you well informed
  - Help you through the recovery process
  - Build resiliency for next time



## CONCLUSIONS

- Looking forward to working with the CAB to enhance future EM policies
- If we work <u>together</u>, we can rebuild our beautiful City and be even more prepared for future events





DISCUSSION & QUESTIONS