

Petroleum Shortage Planning Workshop

# 2017 Hurricane Season Response

## State of Texas

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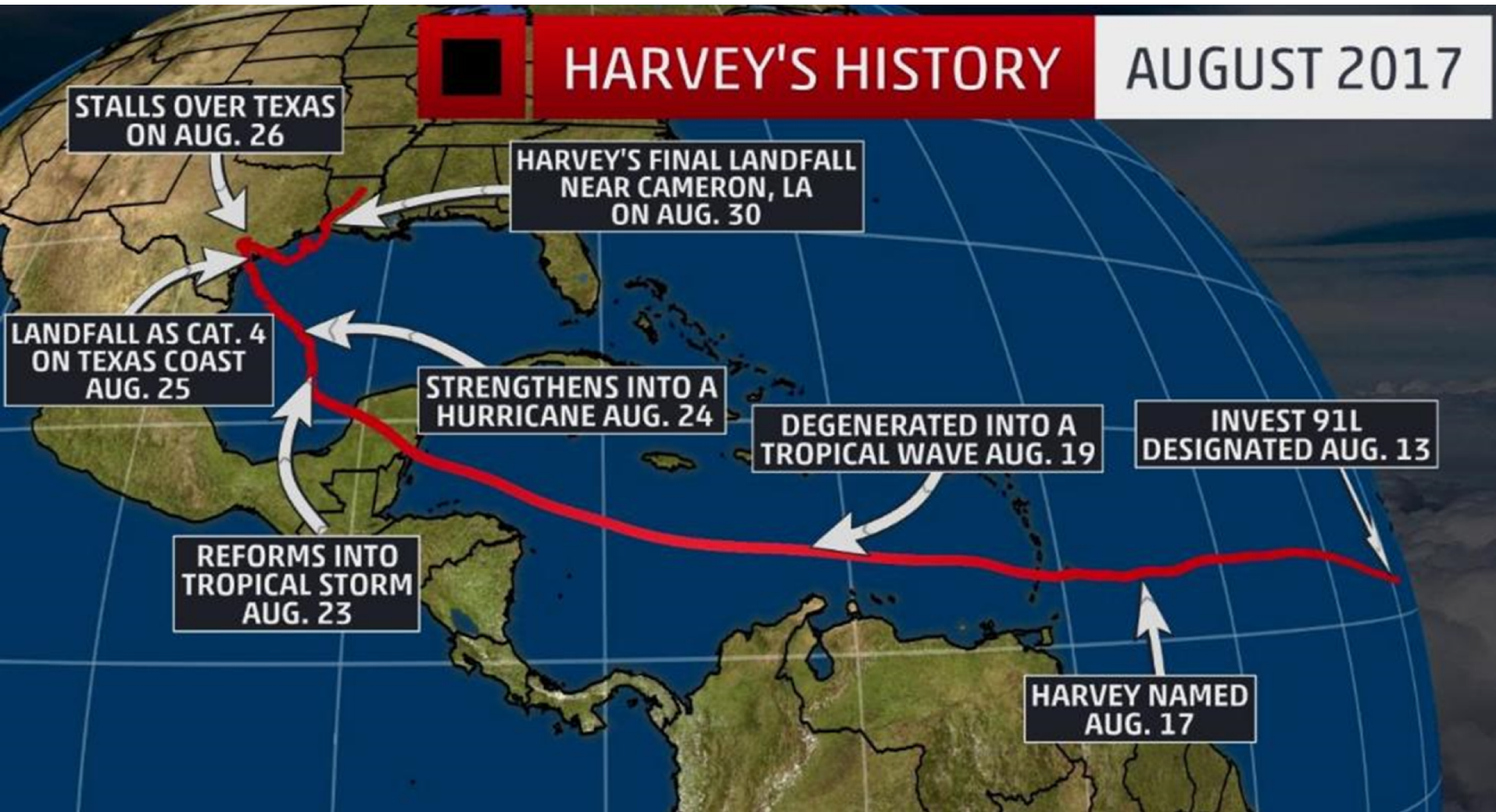
Texas Division of Emergency Management

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# Hurricane Harvey



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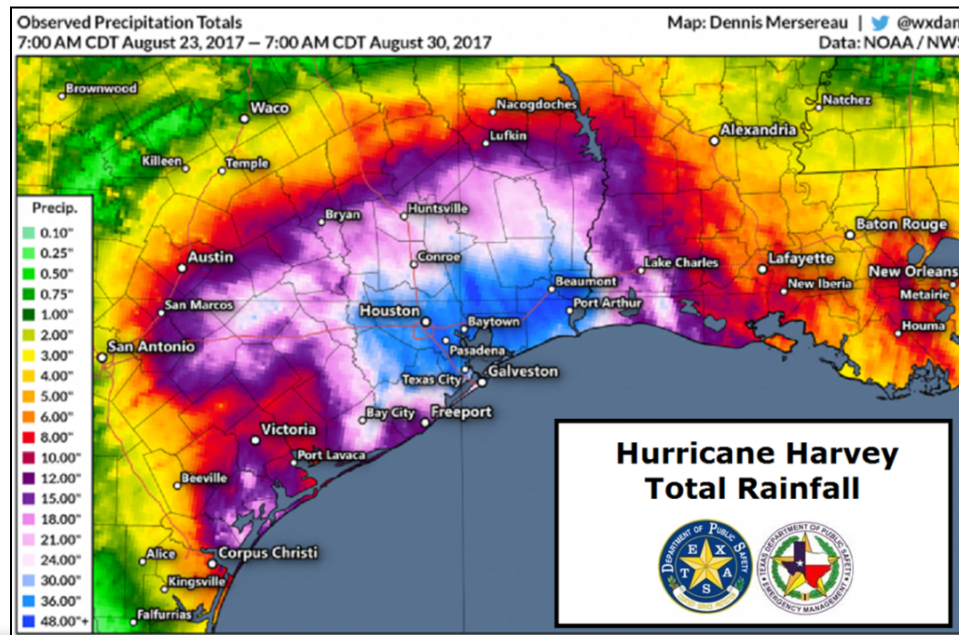
# Hurricane Harvey

- Hurricane Harvey  
RADAR GIF



# Hurricane Harvey

| Hurricane     | Duration | Rainfall | Debris              | 30 Day Costs   | Total Costs                        |
|---------------|----------|----------|---------------------|----------------|------------------------------------|
| Ike (2008)    | 2        | 16"      | 5 mil cubic yards   | \$15 million   | \$4.9 billion                      |
| Rita (2005)   | 2        | 16"      | 8.6 mil cubic yards | \$32.9 million | \$580 million                      |
| Harvey (2017) | 7        | 60"+     | 19 mil cubic yards  | \$300 million  | \$18.5 billion<br>(projected cost) |



Texas Department of Public Safety

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# Hurricane Harvey

## Search and Rescue

- **21,433** personnel
- **35,424** rescues

## Military Support

- **17,415** personnel deployed

## Transportation

- **650** buses used

## Sheltering

- **258** shelters opened at peak
- **42,399** peak population
- **71,000** max shelter capacity



# Hurricane Harvey

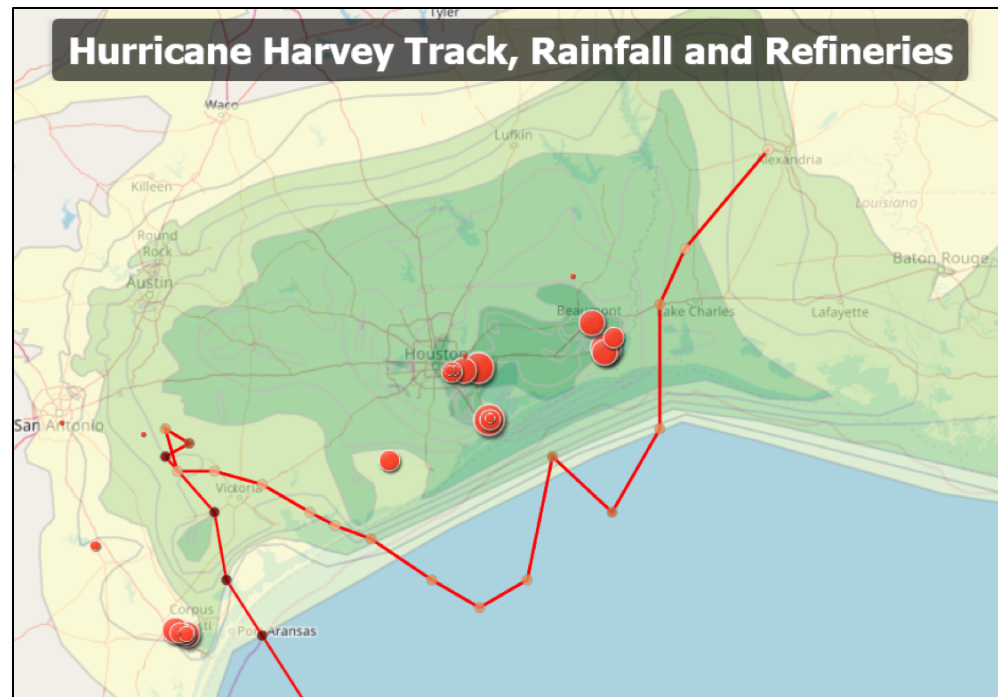
- Presidential Disaster Declaration for **53** Counties
- Governor's Disaster Proclamation for **60** Counties
- Population Impacted
  - **8,861,831** (excludes sheltering jurisdictions)
- Estimated agency expenses
  - **\$437,296,894**
- Total Texas State Operations Center Staff Hours
  - **56,699**



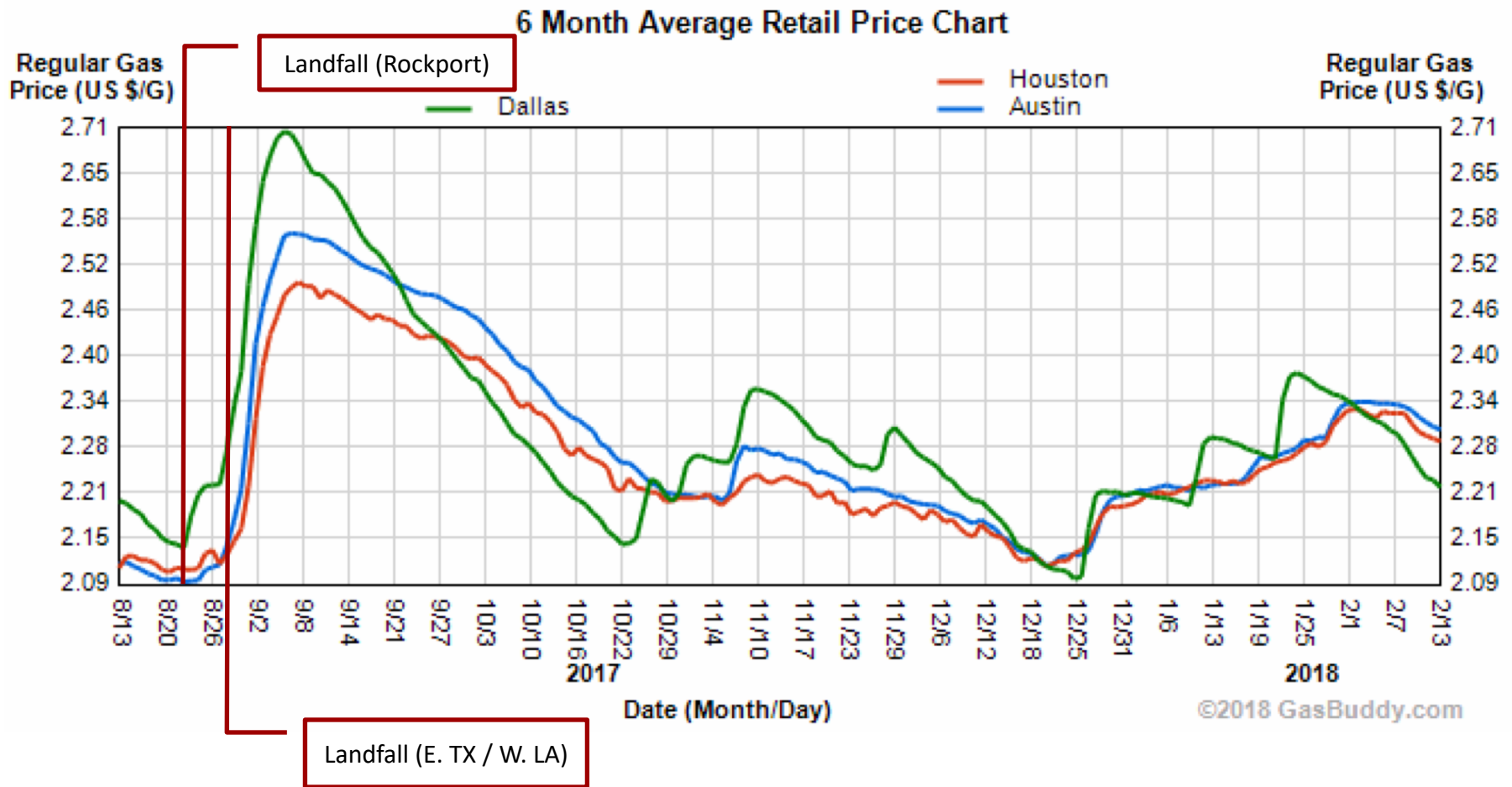
# Storms Impact of Fuel

## Major Impacts to Oil and Fuel

- Shutdowns initiated to gulf coast petrochemical facilities
- Decrease of 2.2 million b/cd due to shutdowns and degraded operations
- Colonial Pipeline impacted
- Additional strain due to evacuations



# Fuel Price In Response



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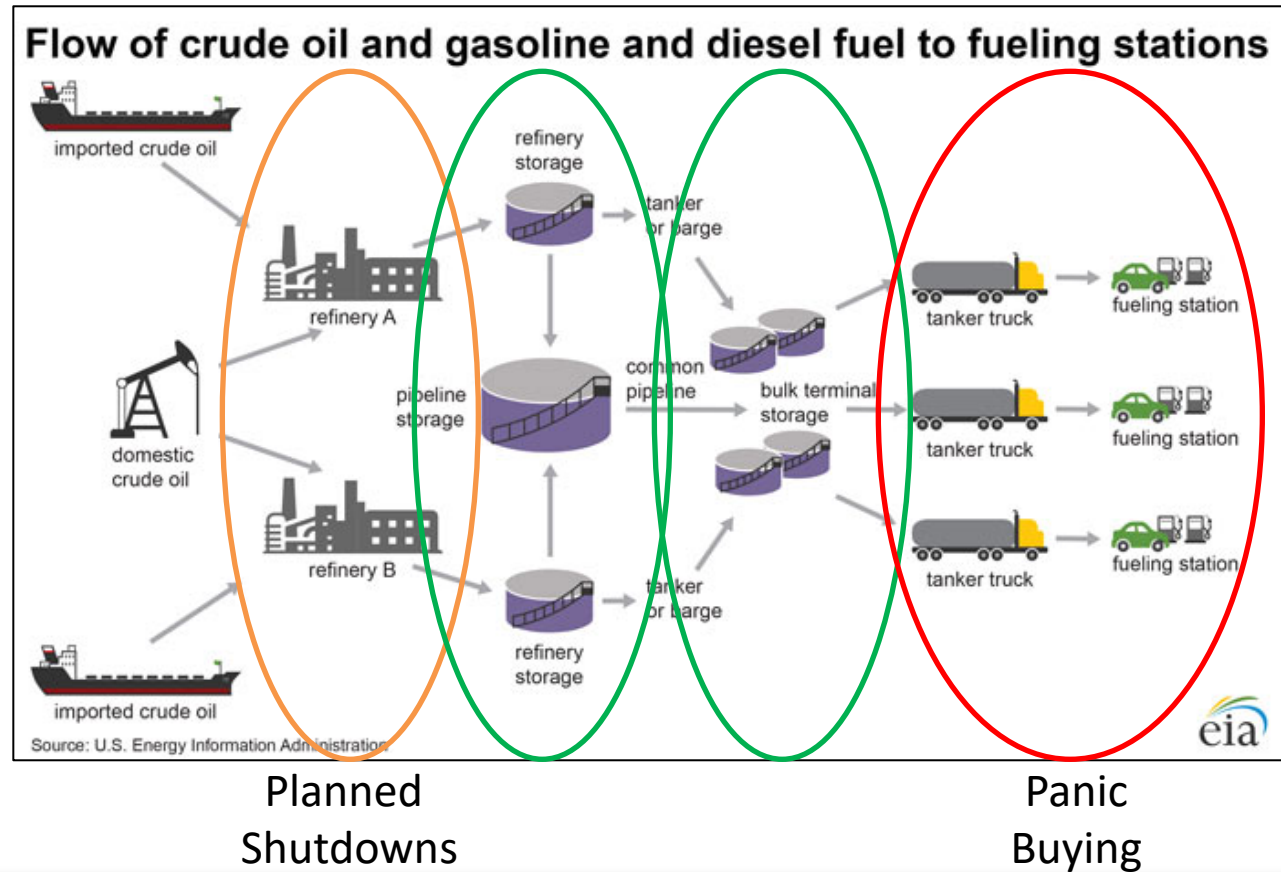
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# Supply Chain

## Issues During Harvey

- Unprecedented storm behavior
- Retail supply issue (panic)
- Retail supply delay of 72 hours
- Fragmented supply chain vs unified supply chain



# Public Information vs. Social Media

## Public Information

## Social Media

### Railroad Commissioner Ryan Sitton: There is no fuel shortage

Long lines formed at Texas gas stations Thursday as some prices started to spike — but officials say Hurricane Harvey hasn't led to a shortage of fuel.

### Gov. Abbott: There is plenty of gasoline in Texas

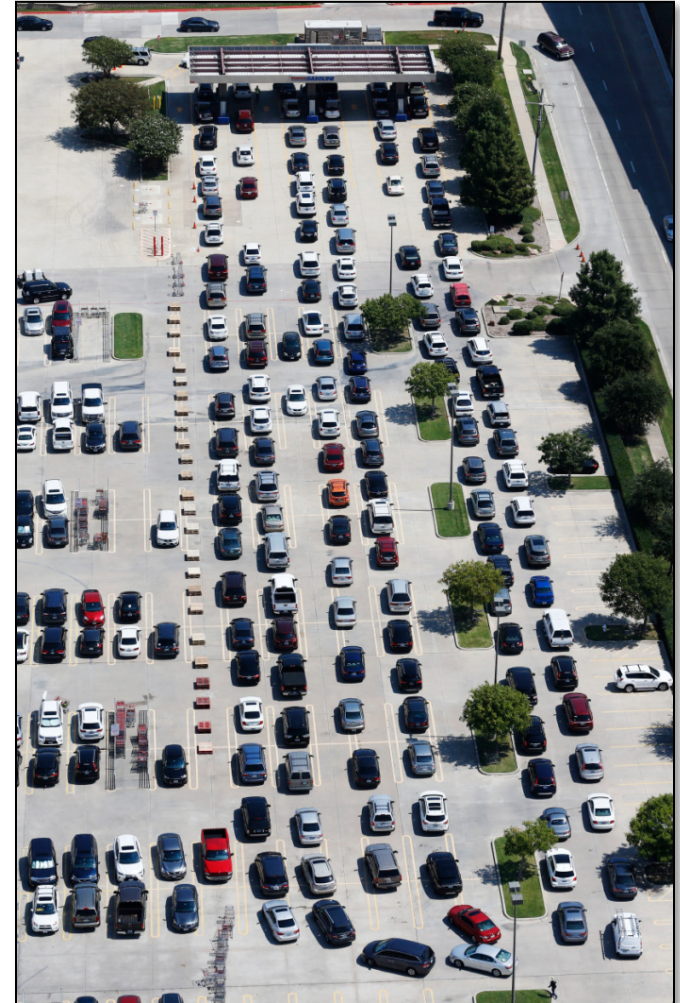
Texas Gov. Greg Abbott said Friday that there is plenty of gasoline in Texas, but the state is taking action to increase supply.



# Impacts

## Public

- Reduced fuel supply
- Potential for price gouging



# Impacts

## Emergency Management

- Time invested by EM community addressing a non-issue
- Fuel availability for responders



Photo by Joe Raedle/Getty Images



# Key Actions Taken

## Government Action

- International Fuel Tax Agreement (IFTA) waiver
- Texas Administrative Code 30.334 – Storage Tank Rules waiver
- EPA No Action Assurance (NAA) letters for Texas fuel distribution
- Public Information

## Private Sector Action

- Magellan refined products pipeline reversal (OK - TX)
- Increased fuel shipments (from out of state)
- Other supporting business activities



# 2017 Hurricane Season

## Lessons Learned

- Oil and Gas representatives in the State Emergency Operations Center
- Identification of waivers that can support petroleum supply chain
- Importance of pre-disaster responder fuel contracts
- Proactive communication across old, new and social media platforms



# Thank You!

