

TEXAS DIVISION OF EMERGENCY MANAGEMENT



Texas by the Numbers

- 254 *Counties* | 1,216 *Cities* | 1,026 *ISDs*
- Six of the most populated cities in the U.S.

#4 Houston

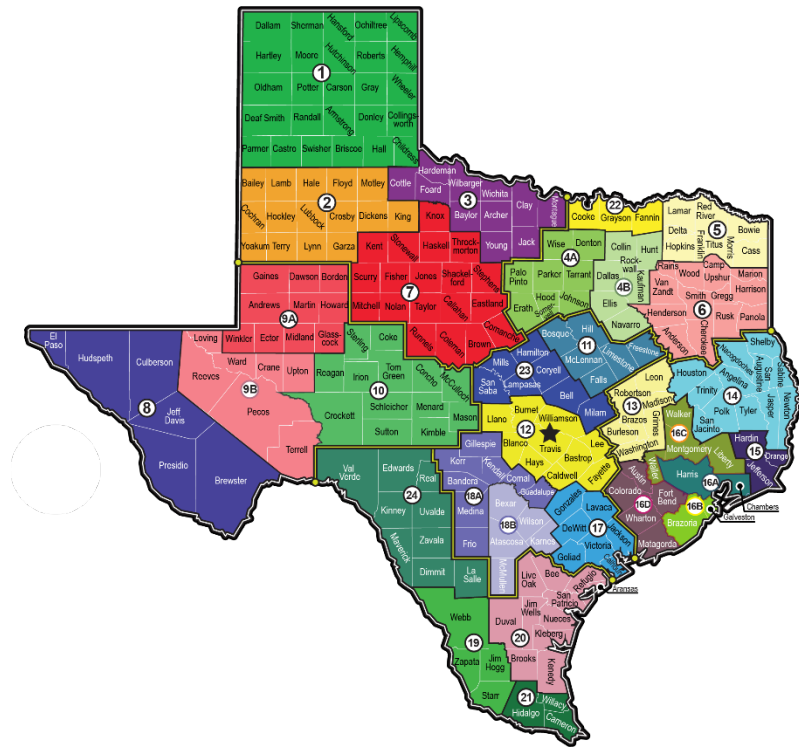
#7 San Antonio

#9 Dallas

#11 Austin

#13 Fort Worth

#21 El Paso



Texas Population Growth

- Large and growing population compounds disaster numbers
- 2010 Texas population*: 25,145,561
- 2018 Texas population *estimate*: 28,701,845
- *Estimated* population increase of 3,556,284 residents



* U.S. Census Bureau 2010 Census

Stafford Act in Texas

- 2010 – Present:
 - Major Disaster Declarations – 15
 - Emergency Declarations – 2
 - Fire Management Assistance Declaration (FMAG) – 52



Major Disaster Declarations Since 1953*

10. Iowa	63
9. Arkansas	63
8. Alabama	64
7. Kentucky	65
6. Louisiana	67
5. Florida	72
4. New York	73
3. Oklahoma	86
2. California	97



*As of 9/11/19

Major Disaster Declarations Since 1953

1. <u>TEXAS</u>	98
EMER	13
FMAG*	243
TOTAL	354

- The Lone Star State has recorded 98 **Major Disasters** in 66 years.
- 1 EVERY 8.1 MONTHS

**This total includes FMAGs and Fire Suppression Authorizations (predecessor to FMAGs)*



*As of 9/11/19

Disaster Declaration Threshold

- To qualify for federal assistance after a disaster, states must meet a pre-established, population based damage threshold

Thresholds	
Texas	\$ 38,472,708.33
Arkansas	\$ 4,461,354.54
Louisiana	\$ 6,936,059.16
Oklahoma	\$ 5,739,567.03
New Mexico	\$ 3,150,543.87



Texas Hurricane Vulnerability

- **268,000** square miles (second only to Alaska in size)
- **367** miles of coastline
- **624** miles of shoreline
- Vulnerable to impact from both:
 - Atlantic and
 - Pacific storms



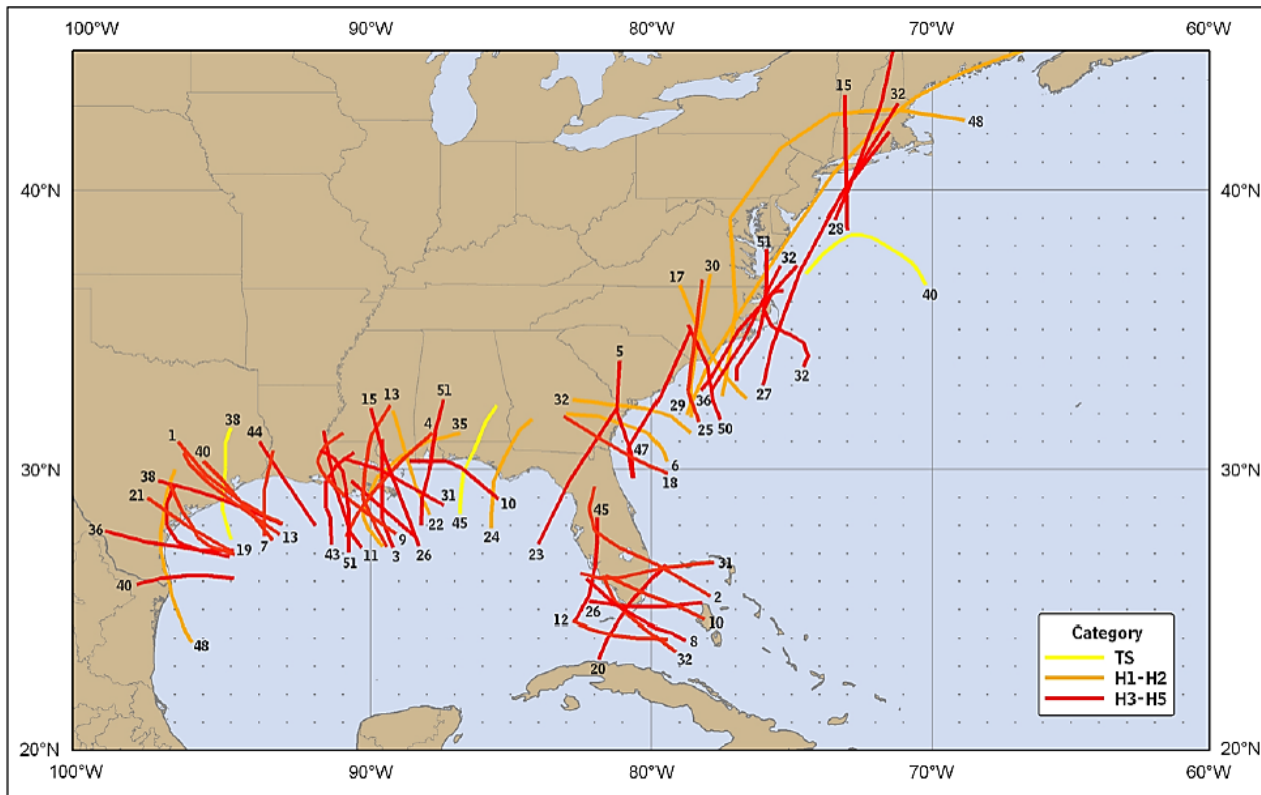
Tropical Cyclones in Texas (Since 1851)

- **Nineteen major** (category 3 or 4) hurricanes
- Thirteen of the 52 **deadliest** cyclones in U.S. history (Roughly 20%)
 - Galveston Hurricane (1900): 8,000 deaths
- Seven of the 30 **costliest** hurricane strikes in U.S. history (since 1900)
 - Hurricane Ike (2008): \$29.52 billion
 - Hurricane Harvey (2017): ????????
 - Tropical Storm Imelda (2019): ???????



Deadliest Cyclones (1810 – 2017)

- Tropical cyclones causing 25 or more deaths.
- Texas ranks first.



Upper Texas Coast Hurricanes

- Nine Category 3 or 4 hurricanes crossed the **upper Texas Coast** since 1851
- Four of which formed in the Gulf of Mexico
 - 1932 – **42 hours** – Cat 4
 - 1945 – **78 hours** – Cat 3
 - 1957 – **42 hours (Audrey)** – Cat 4
 - 1983 – **54 hours (Alicia)** – Cat 3
 - 2017 - **50 hours (Harvey)** - Cat 4
- Time is from first advisory to onset of adverse conditions.



Texas Hurricane Evacuation Considerations

- Over 2 million people in evacuation zones
- Over 130 jurisdictions in evacuation areas
- 22 counties in storm surge inundation zones



How We Respond In Texas!

- Local level
- State level
- Federal level



Incident Management in Texas

- Incidents begin and end locally, and are managed on a daily basis at the *closest possible* geographical, organizational, and jurisdictional level



Local Governments

- Local governments (counties, cities, or towns) respond to *emergencies* daily using their own resources
- They rely on mutual aid and assistance agreements with neighboring jurisdictions
- When local jurisdictions cannot meet incident response resource needs with their own resources or with help available from other local jurisdictions, they may ask for state assistance



Local Authority in Texas

- **Mayors** and **county judges** serve as emergency management directors
- Responsible for maintaining an emergency management program within their respective jurisdictions
- Officials often appoint an emergency management coordinator (EMC)
- **Mayor** and **county judge** are authorized by the Texas Disaster Act to declare a local disaster when conditions exist or when there is an immediate threat



State of Texas

- States have significant resources of their own
- If additional resources are required, the state may request assistance from other states through interstate mutual aid and assistance agreements such as the Emergency Management Assistance Compact (EMAC)



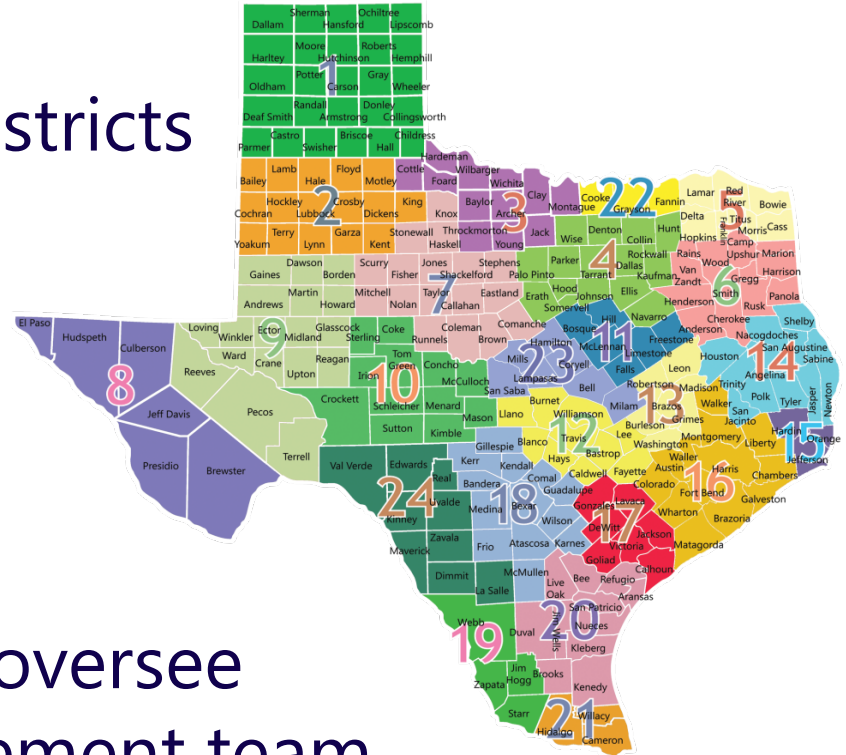
State Regions

- Texas is divided into 6 regions
- Each region has a TDEM Assistant Chief Responsible for emergency Management in their region



State Disaster Districts

- Texas has 24 disaster districts
- Each disaster district has a TDEM District Coordinator(s)
- TDEM Assistant Chiefs oversee the emergency management team
In their regions

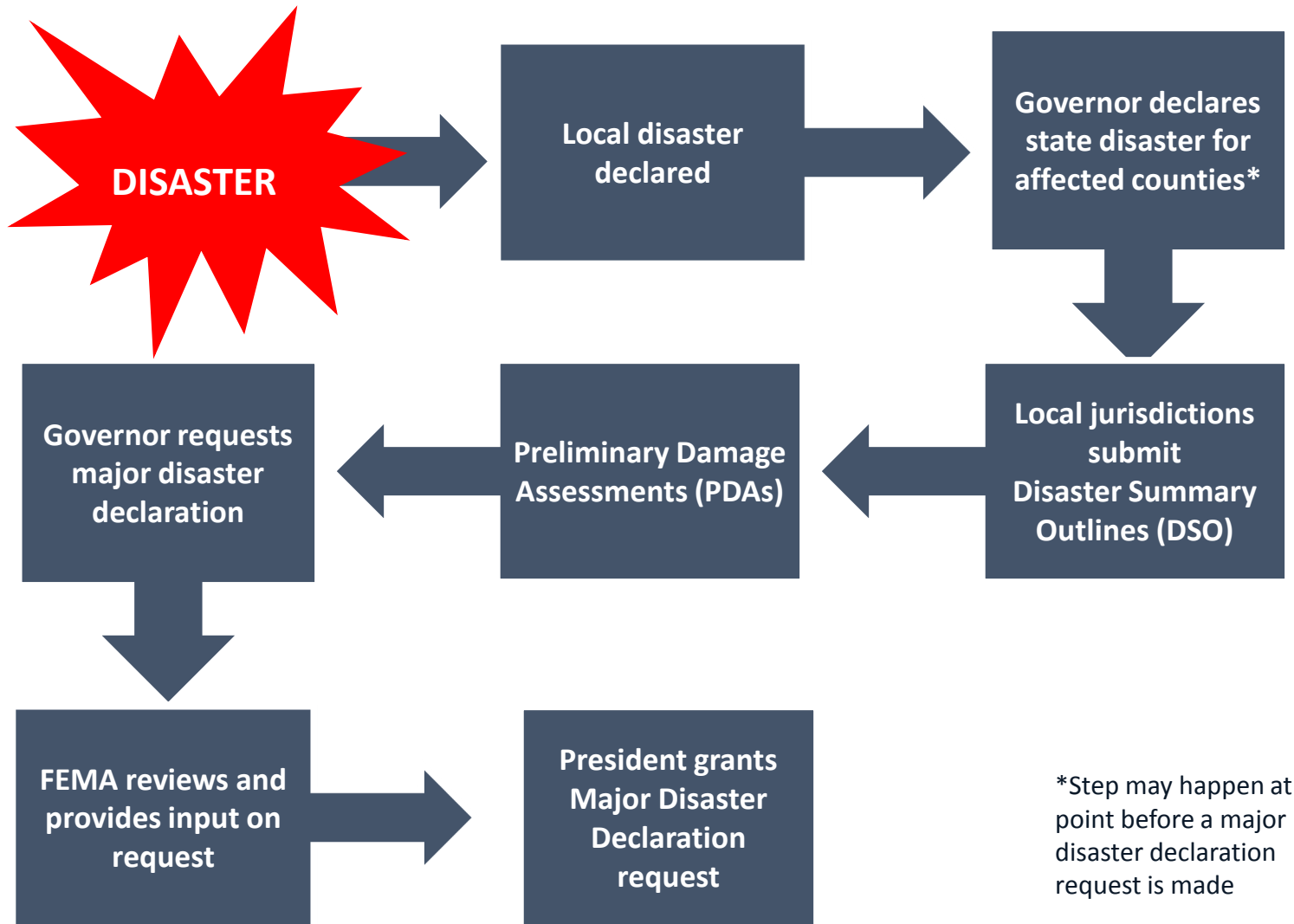


Federal Government

- If an incident is beyond local and state capabilities, the Governor can request federal assistance
- The governor's request is made through the FEMA Regional Administrator and based on a finding that the disaster is of such severity and magnitude that effective response is beyond the capabilities of the state and affected local governments, federal assistance is granted



Presidential Declaration Process



Why Is Preparedness Important?

- Remember Texas is #1!
- 2016, Texas experienced several significant events:
 - DR-4255 (January Blizzard and Severe Weather)
 - DR-4266 (March Storms, Tornadoes and Flooding)
 - DR-4269 (April Storms and Flooding)
 - DR-4272 (May – June, Storms and Flooding)
- 2017: **Hurricane Harvey** DR-4332
- 2018: Severe Storm and Flooding DR-4377
- 2018: Severe Storms and Flooding DR-4416 (declared 2/25/19)
- 2019: Severe Storms and Flooding DR-4454



How do Texans Support Each Other?

- DO:
 - Build relationships before a disaster
 - Conduct combined planning, training and exercises
- DON'T:
 - Wait until a disaster happens
 - Self-deploy



The Four Challenges

- Be the **expert**
- Stay in your **lane**
- **Collaborate** at all costs
- **Make a decision!**



