Flood Response and Recovery

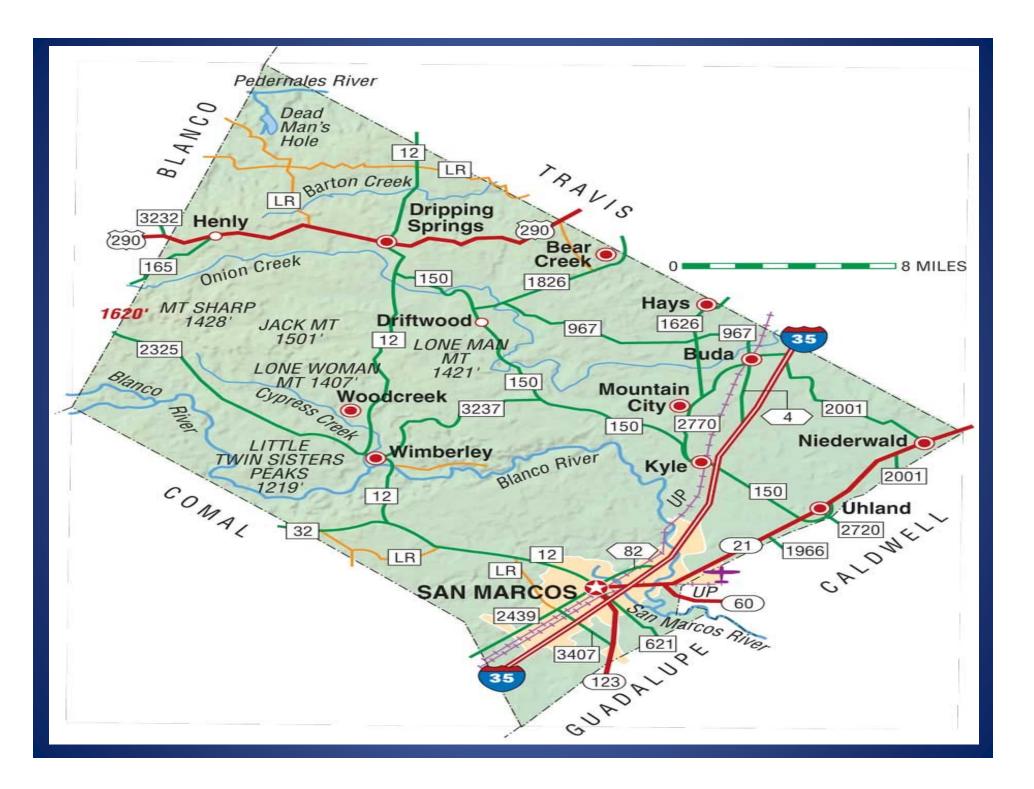
Kharley Smith

Emergency Management Coordinator

Hays County, TX



- Texas Hill Country
- 680 square miles
- Split Rural and Urban
- 12 Municipalities
 - 11 of those under the County OEM
- Population
 - 2000 97,500
 - 2014 185,000
 - 2030 406,000 (estimated)
- Home of Texas State University
- Advanced Law Enforcement Rapid Response Training Center (ALERRT)
- Emergency Services
 - 5 Law Enforcement Agencies
 - 7 Fire Departments
 - 3 EMS Providers
 - 4 911 Centers

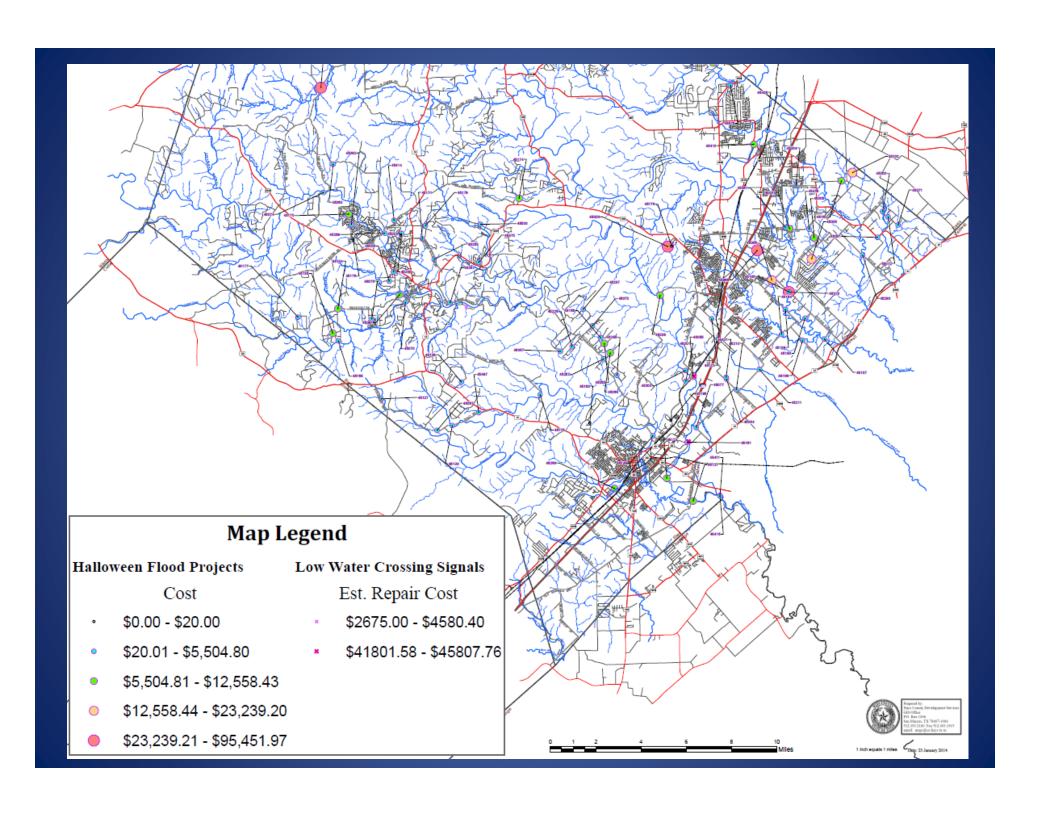


Hays County Federal Disasters

- All Saints Weekend Flood 2015 DR 4245
- Memorial Weekend Flood 2015 DR 4223
- Halloween Flood 2013 DR 4159
- Labor Day Fires 2011 DR 1624
- Hurricane Ike 2008 DR 1791
- Flooding 2007 DR 1709
- Hurricane Rita 2005 DR 1607
- Flooding 2002 DR 1425
- October Floods 1998 DR 1257

Halloween Flood 2013

- Emergency Departments responded to 94 calls for assistance overnight due to high water
- Received a Federal Declaration for Public Assistance only
 - \$570k in road projects alone
- Individual property loss
 - 27 major or destroyed
 - 62 minor or affected















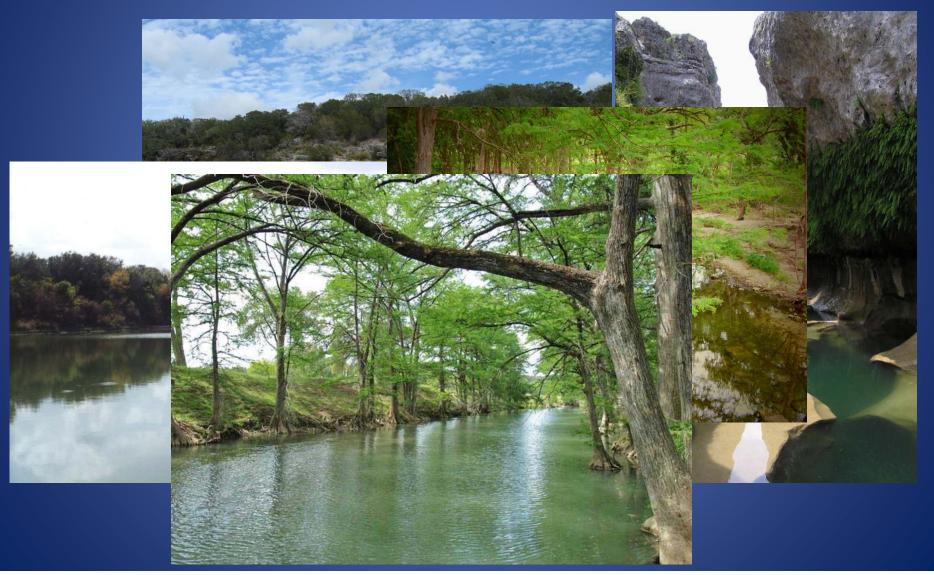
TUESDAY, NOV. 5TH 4PM-9PM
BARTON JR. HIGH
4950 JACK C. HAYS TRL. KYLE

IF YOU HAVE BEEN AFFECTED BY THE RECENT FLOOD PLEASE COME CONNECT WITH ORGANIZATIONS THAT ARE HERE TO HELP AND SEE WHAT SERVICES ARE AVAILABLE TO YOU. A LIST OF RESOURCES WILL BE AVAILABLE AT WWW.CO.HAYS.TX.US AND AT COUNTY PRECINCT OFFICES AFTER THE EVENT.

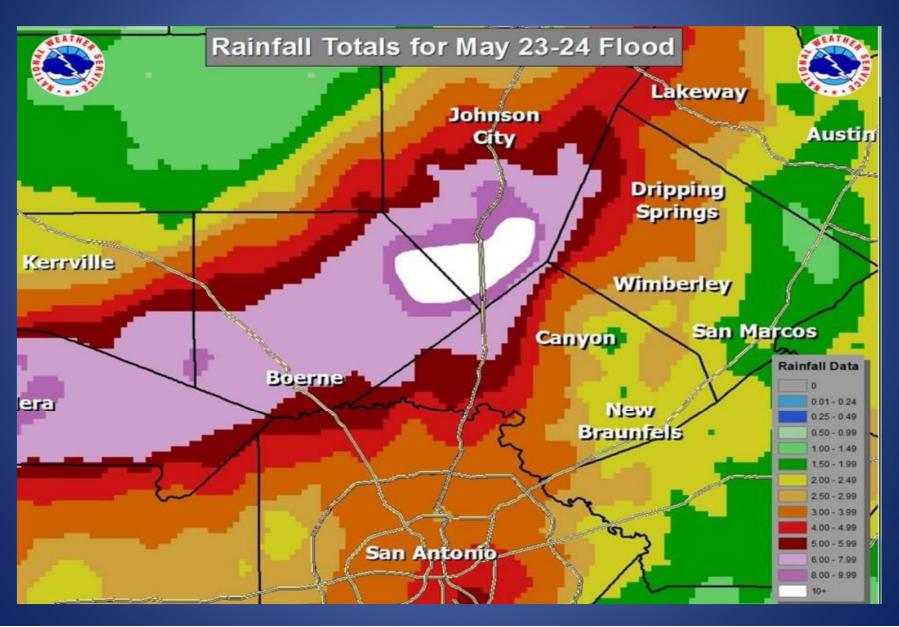
Memorial Weekend Flood 2015

- Federal Disaster Declaration for Public Assistance and Individual Assistance
 - Public Assistance \$2,987,163+
 - Over \$2mil in debris management
 - \$650,000 in Emergency Protective Measures (labor)
 - Individual Assistance \$13,813,902
 - 1208 households sustaining major damage or destroyed

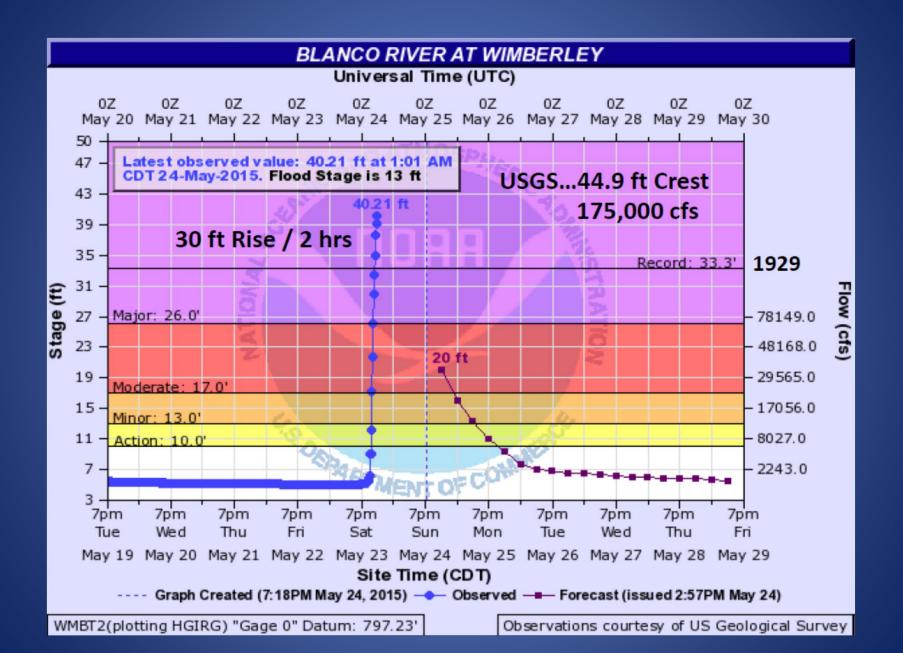
Memorial Weekend Blanco River May 23, 2015



Then this happened...









Emergency Response

- 911 Center Processed over 3600 calls for help
- Emergency Operations Center Activated
- Real Time Communication with the NWS
- Utilization of Emergency Notification Systems
- Mutual Aid Agreements Activated
- Emergency Shelters Opened
- Hundreds of Residents Evacuated

Established Relationships are Essential!

Multi Agency Response

Texas Task Force I

Texas Task Force II

Texas A&M Forest Service

Texas Military Forces

Texas Boarder Patrol

Texas Division of Emergency Management

Texas Department of Public Safety

Texas Department of Transportation

Texas Department of Health and Human Services

Hays County Sheriff's Office

San Marcos Police Department

Texas State University Police Department

Kyle Police Department

Alamo Area SAR

Travis County SAR

Austin PD SAR

TEXSAR

Texas A&M Veterinary Team

San Marcos SMART Dive Team

San Marcos Fire Marshal's Office

North Hays Fire and Rescue

Wimberley Fire Department

San Marcos Fire Department

South Hays Fire Department

Kyle Fire Department

Buda Fire Department

Wimberley EMS

San Marcos Hays County EMS

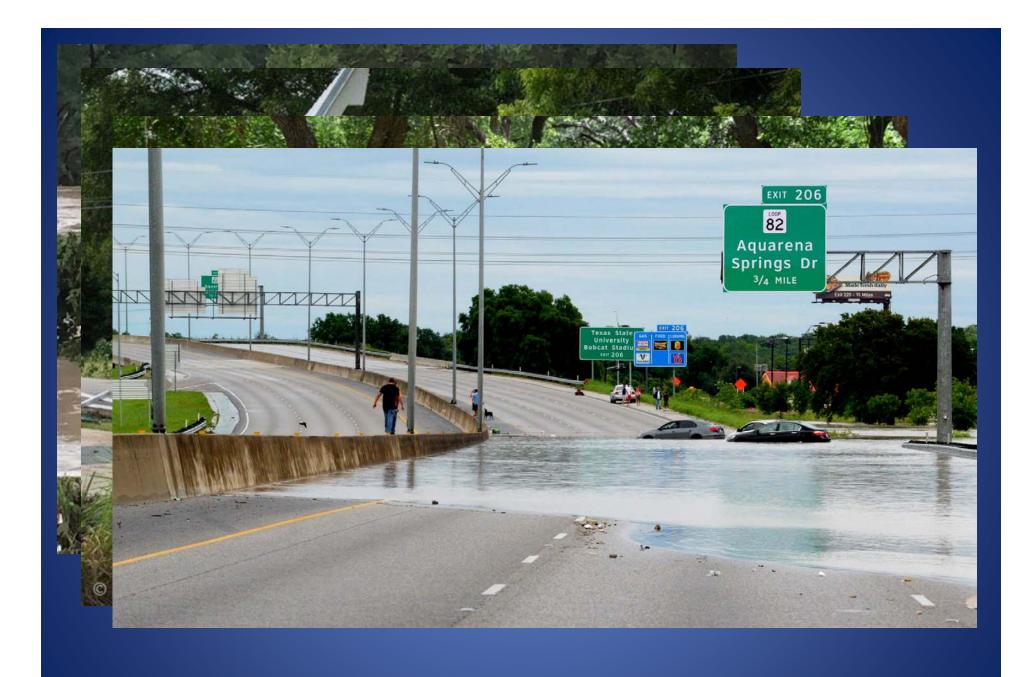
Buda EMS

Austin/Travis County EMS



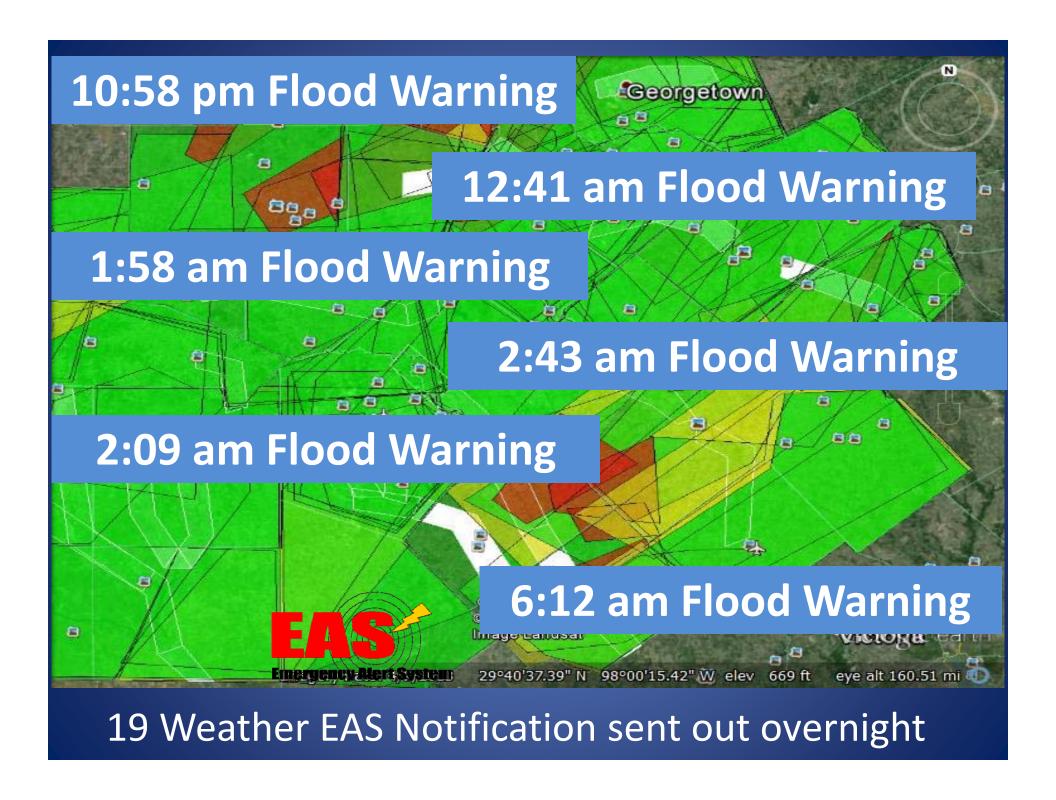
Hays County Blanco River May 24, 2015





Emergency Notifications

- Systems Utilized
 - First Call (Regional Notification System)
 - Amatra (County Notification System)
 - Code Red (City of Wimberley Notification System)
 - NWS (IPAWS & NOAA Weather Radio)
 - Outdoor Warning Sirens (City of San Marcos)
 - Local Media and & Social Media
 - Door to Door Notifications by Local Responders
- Improvements
 - Collaboration
 - Consistency
 - Concise



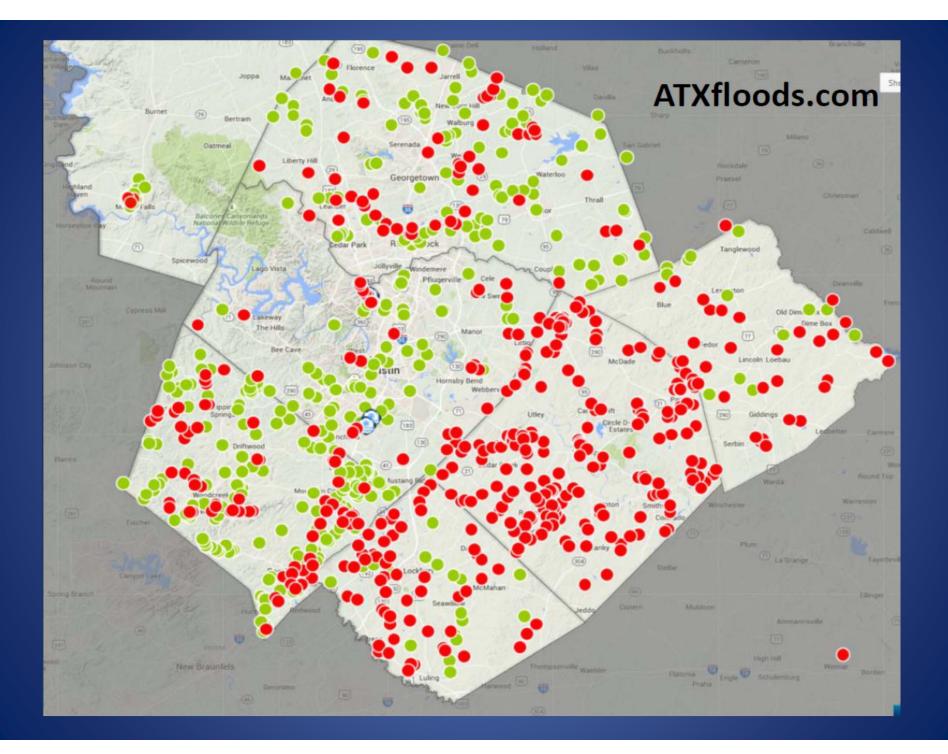
Notification Fatigue

- In CAPCOG area National Weather Service issued
 - 9 Severe Thunderstorm Warnings
 - 10 Flash Flood Warnings
 - 12 Tornado Warnings
- 27 GIS911 notifications were sent on May 25:
 - Average duration of notifications was 1 hour 56 minutes
 - 95,707 telephone numbers were called
 - 60,326 (63.03%) calls were successful
- 106,410 total calls were initiated
 - 55.8% of the total calls were related to tornado activity
- Registered cell users received so many notifications we had to shut down the server in order to process 911 emergency notifications.

Emergency Operations

- Disasters affect all areas of County Government
- Trust the System
- Accurate Damage Assessments are Crucial
- Know what to ask for when offered help
- Transition from Response to Recovery is sooner than you think

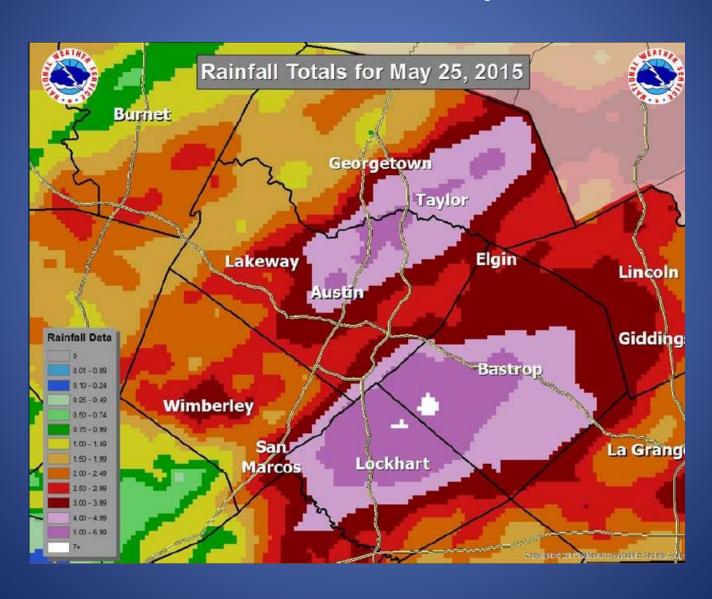
Documentation Documentation Documentation!



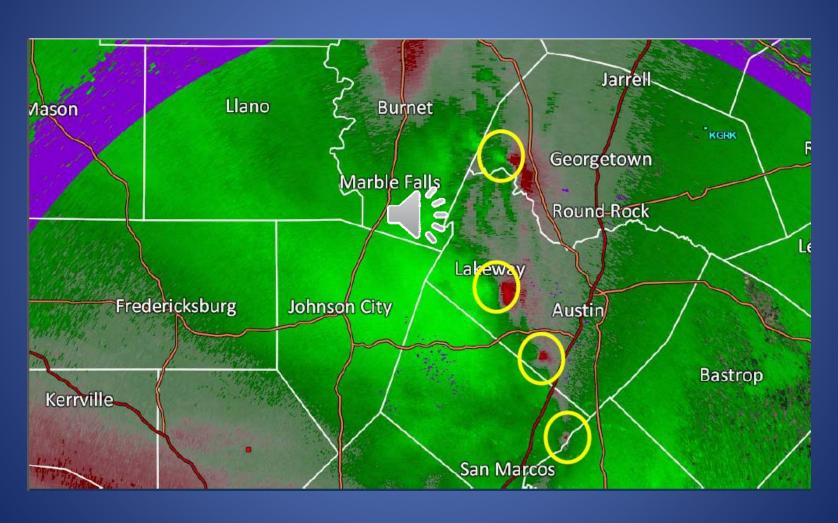




Aerial Flood May 25th



Multiple Tornados



Major Tank Battery Fire



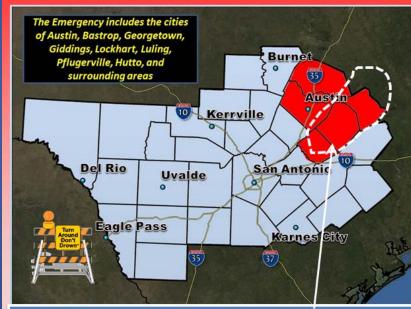
Major Tank Battery Fire



Historic – Flash Flood Emergency

Flash Flood Emergencies Continue

...For counties shaded in red until 12:15 AM Tuesday...



The area of most significant impact is located within the dashed white area.

- A Flash Flood Emergency means that widespread Flash Flooding is occurring resulting in significant or catastrophic impacts to life and property.
- Do NOT drive if it can be avoided. Multiple roadways are flooded and driving into flood waters are the number one flood related cause of fatalities.
- Rain has subsided in the Emergency area however the flood situation is still extremely dangerous.





@NWSSanAntonio weather.gov/ewx

Debris Management

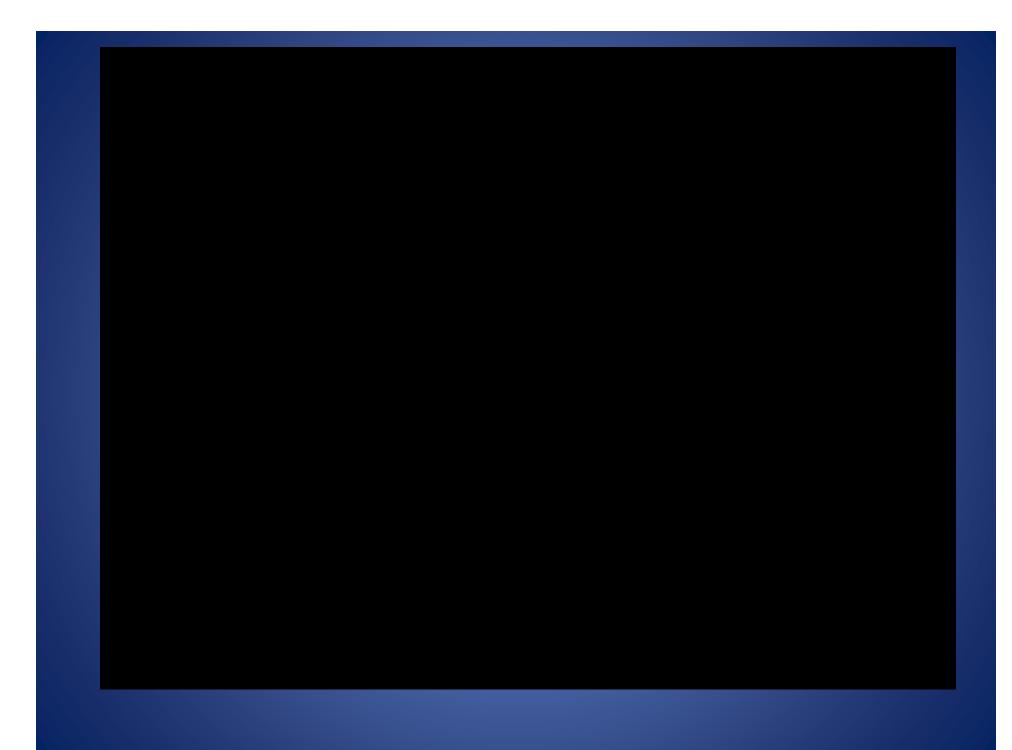
- Initial Response
 - Public Health and Safety Concern
- Right of Way Debris Removal
- Private Property Debris Removal

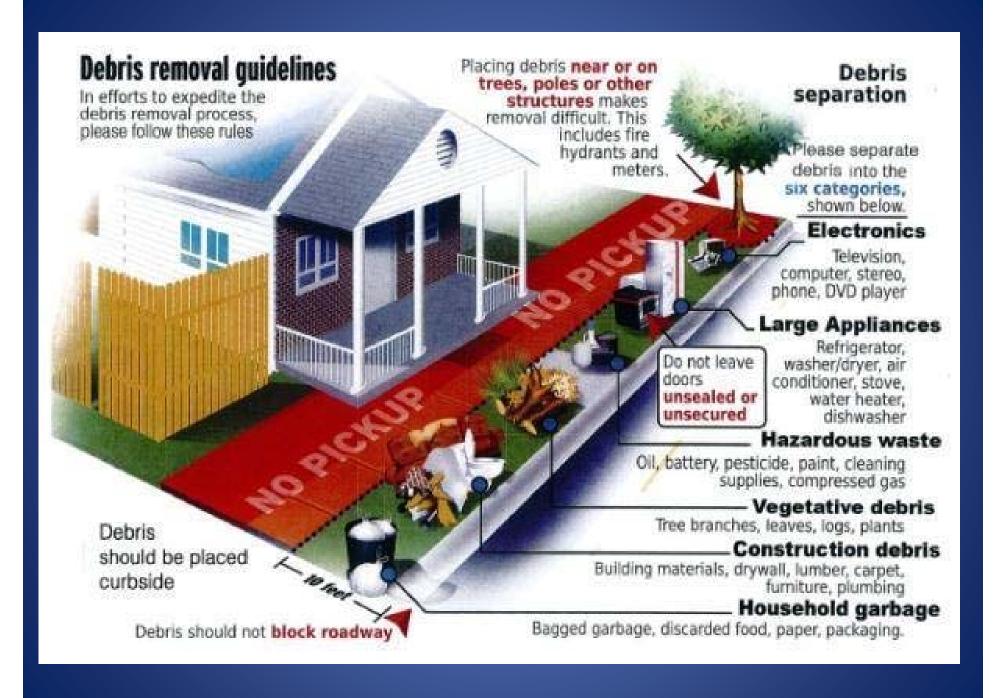






Have An Existing and Approved Plan

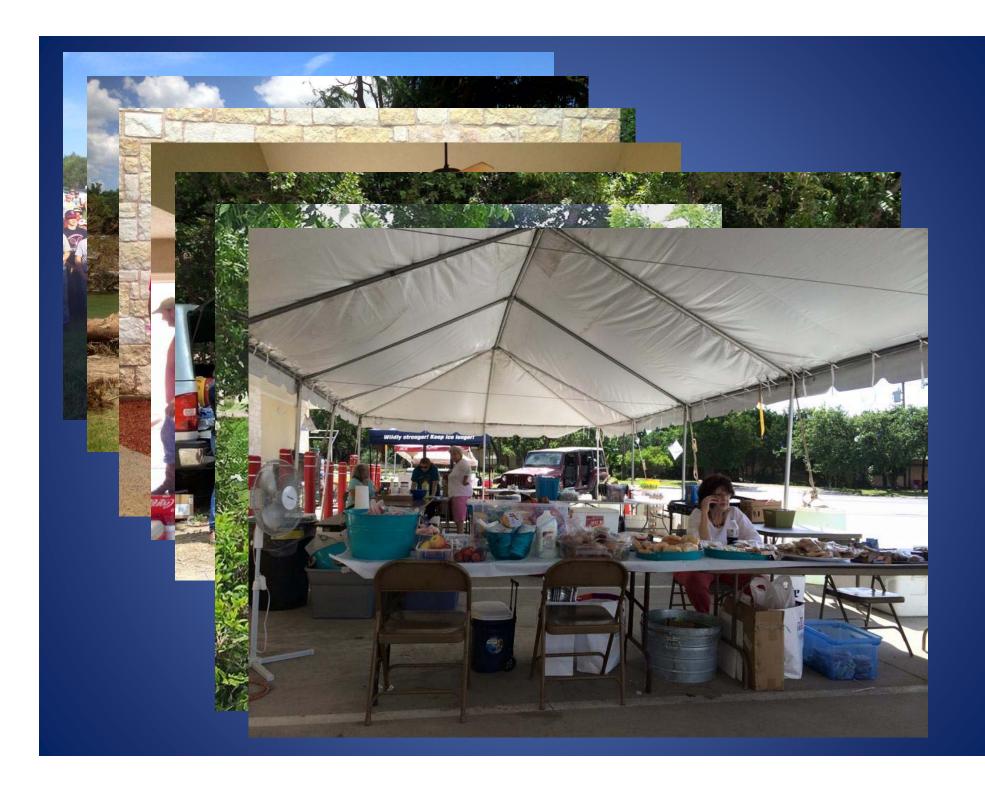




Volunteer Management

- Establish a Volunteer Resource Center (VRC)
- Have a system to receive requests for volunteer assistance
- Register All Volunteers
 - Track Job Assignments and Hours
 - Liability Waivers
- Volunteer hours count toward your soft match

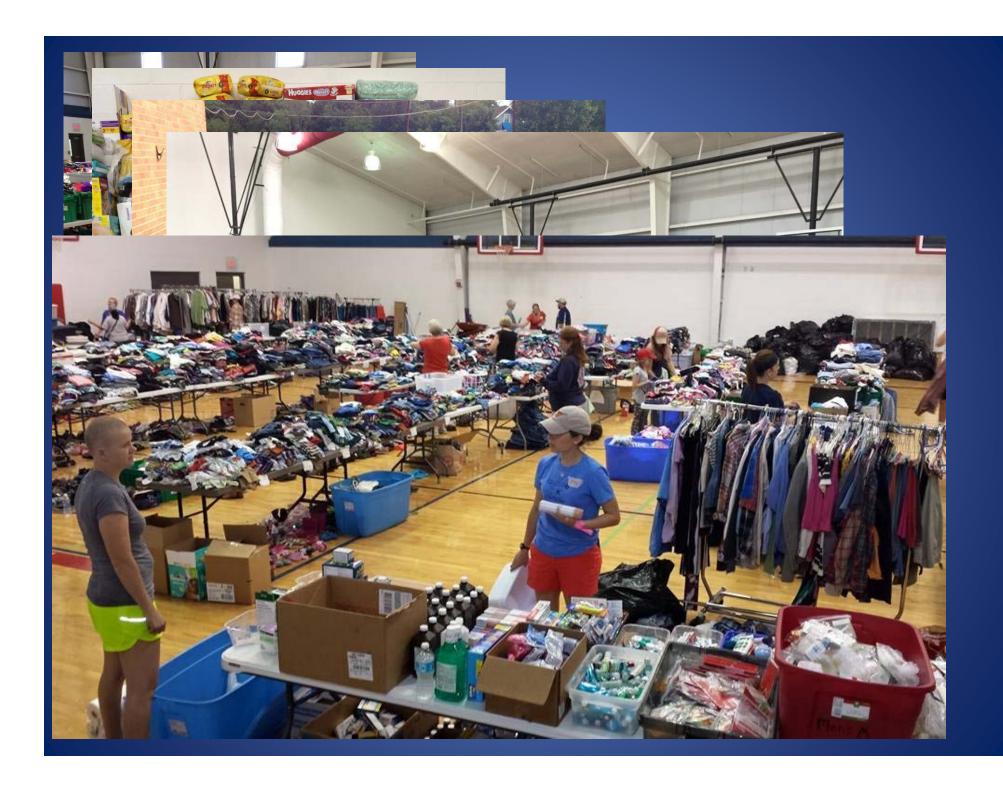
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Donation Management

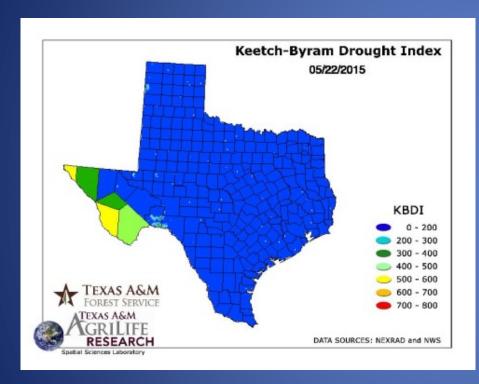
- The Disaster After the Disaster
- You cannot 'un-ask' for donations
- Set parameters and do not wavier
- Remember that receiving and distributing are two very different functions
- Have an established closing date
- Store additional donations to be turned over to long term recovery

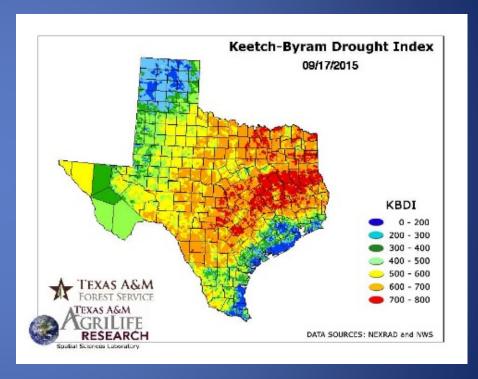
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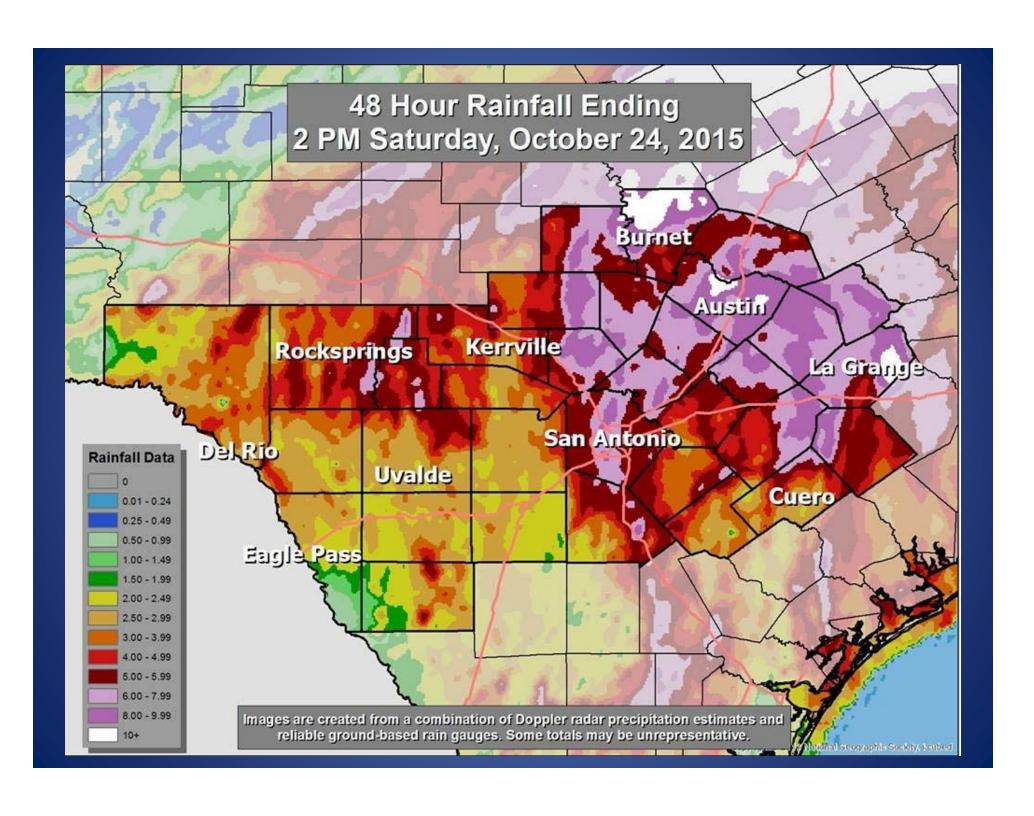


May - September





KBDI (Drought) Index

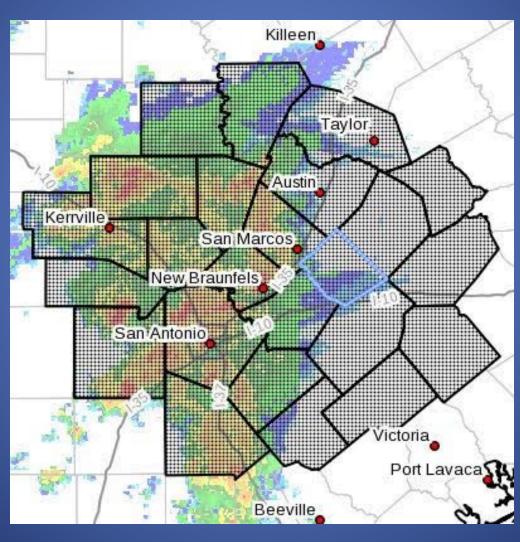


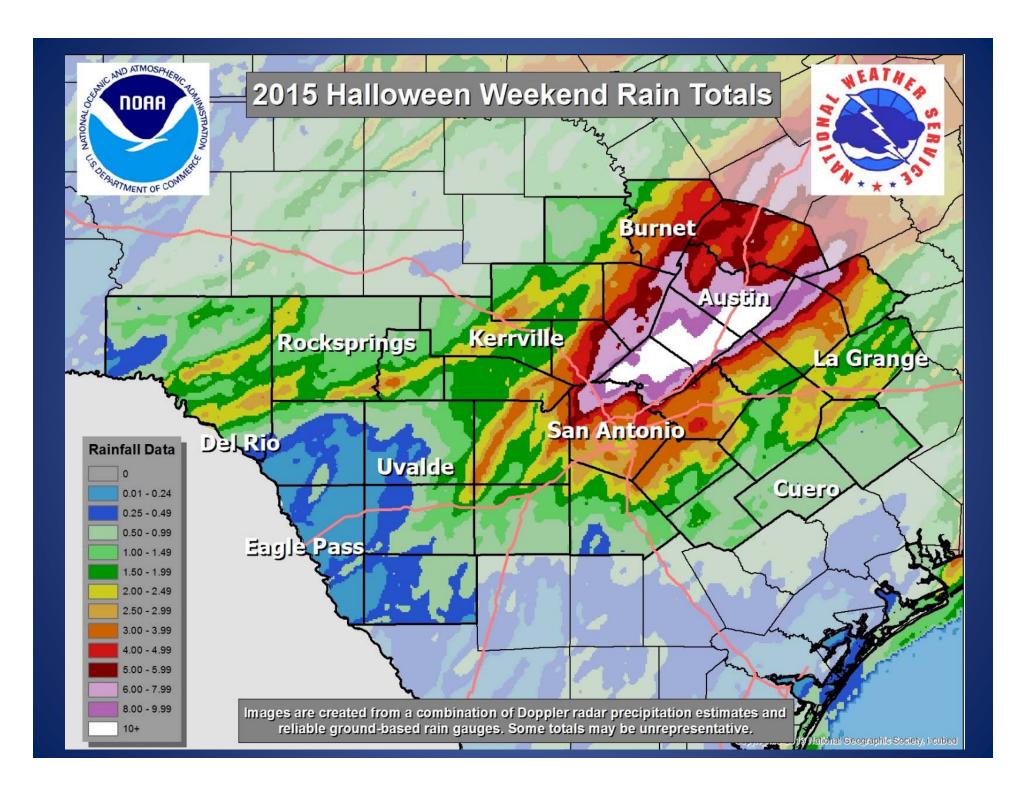


All Saints Weekend Flood 2015

- Federal Disaster Declaration for Public Assistance and Individual Assistance
 - Public Assistance \$11mil+
 - Estimated \$2mil in roadway damage
 - Individual Assistance \$3,807,854
 - 635 households sustained major damage or were destroyed

Flash Flood Watch 439 AM CDT FRI OCT 30 2015

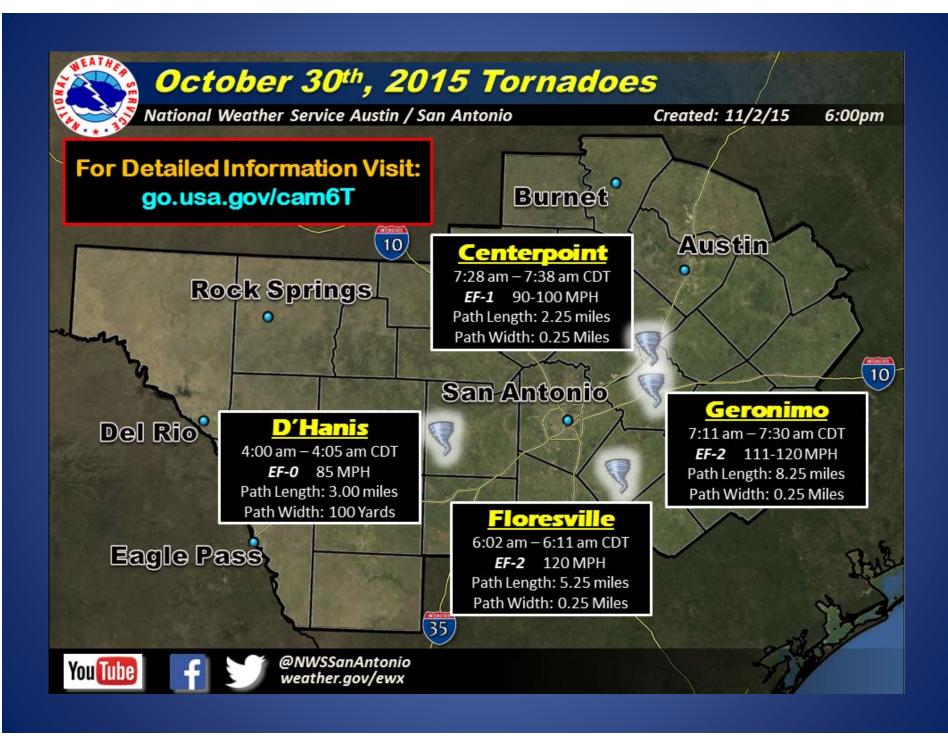




Chronology 10/30/2015

- 4:39 Flash Flood Watch
- 6:07 AM Tornado Watch
- 7:25 Report of Tornado in Guadalupe County
- 7:30 Report of Tornado in Hays County

• 19 ½ inches of rain in less than 2 hours



Derailment



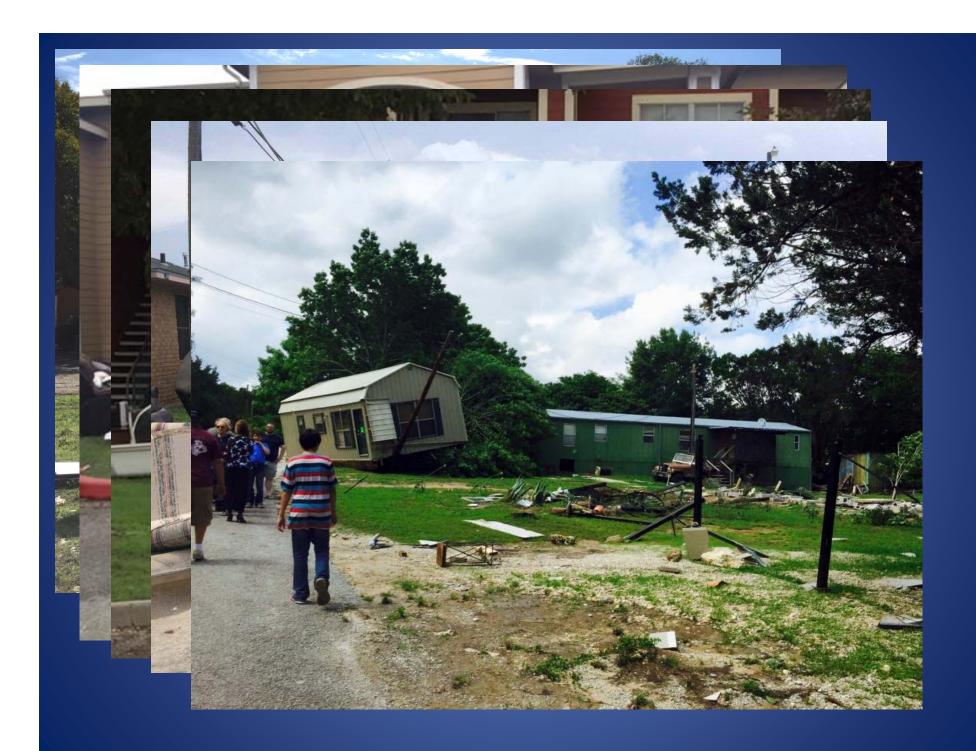












IMT and **PIRT**

The need for both in a coordinated response is evident!

IMT Response

- Instrumental in planning and documentation
- Coordinated Operational Response
- Facilitated communication between response agencies and locals
- Reinforced the structure and schedule

Post Incident Response Team (PIRT)

- Professionals with Emergency Management experience that can facilitate the Recovery Phase
- Recovery planning and implementation must start during the response phase
- Subject Matter Experts in everything from finance to donations to volunteers are needed to assist the Locals

Long Term Recovery

- Utilize your local organizations
 - Faith Based
 - Non Profit
 - Business
- Have Oversight but NOT Direct Involvement
 - this organization should function independent of County Government
- Expected to be in Long Term Recovery for years



- Collaboration of the EMCs from Blanco County, Hays County, Caldwell County, Guadalupe County, and the City of San Marcos
 - Selected Transitional Board Members
 - Identified the committees and/or functions that needed to be addressed
- Comprised of Faith Based
 Organizations, Non-Profits, local business, community members
- Established 501c3

Stay Strong. Stay Kind. Stay (Texan) American

