



Texas Department of Public Safety

Division of Emergency Management

Hurricane Harvey Update NCTCOG CRS Users Group Meeting

October 19, 2017

4A HURST 4B GARLAND 5 Mt PLEASANT 6 TYLER 22 SHERMAN

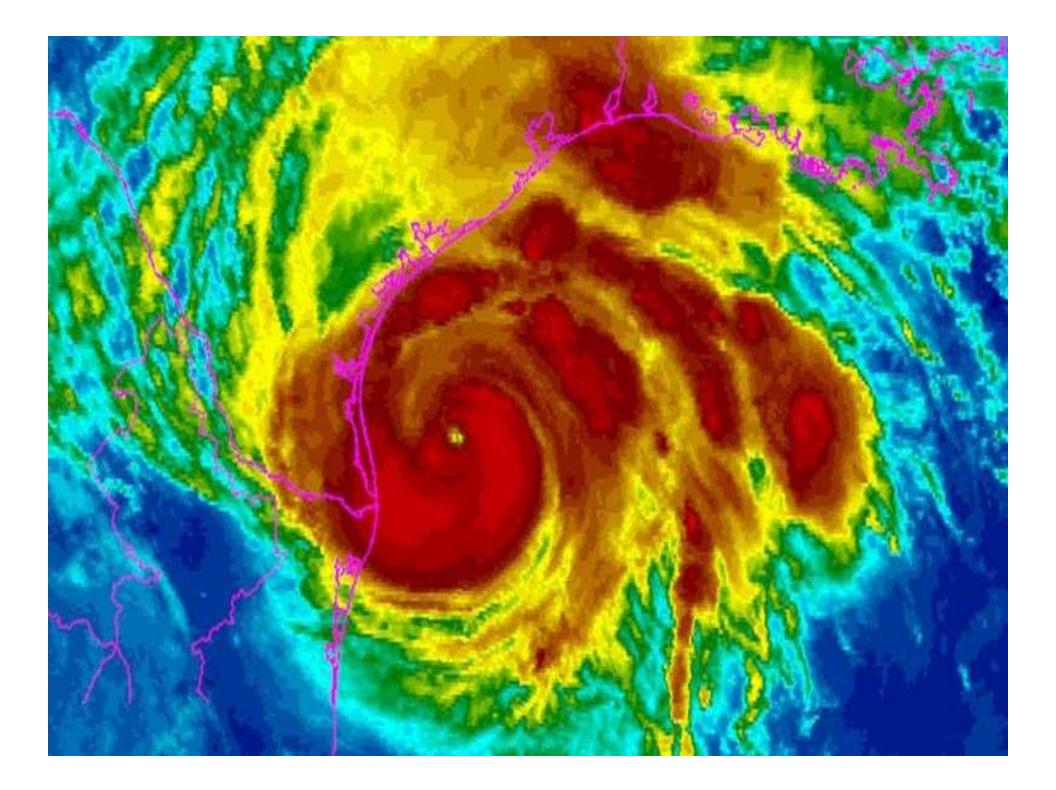
DPS Region 1 DISASTER DISTRICTS

4B

4







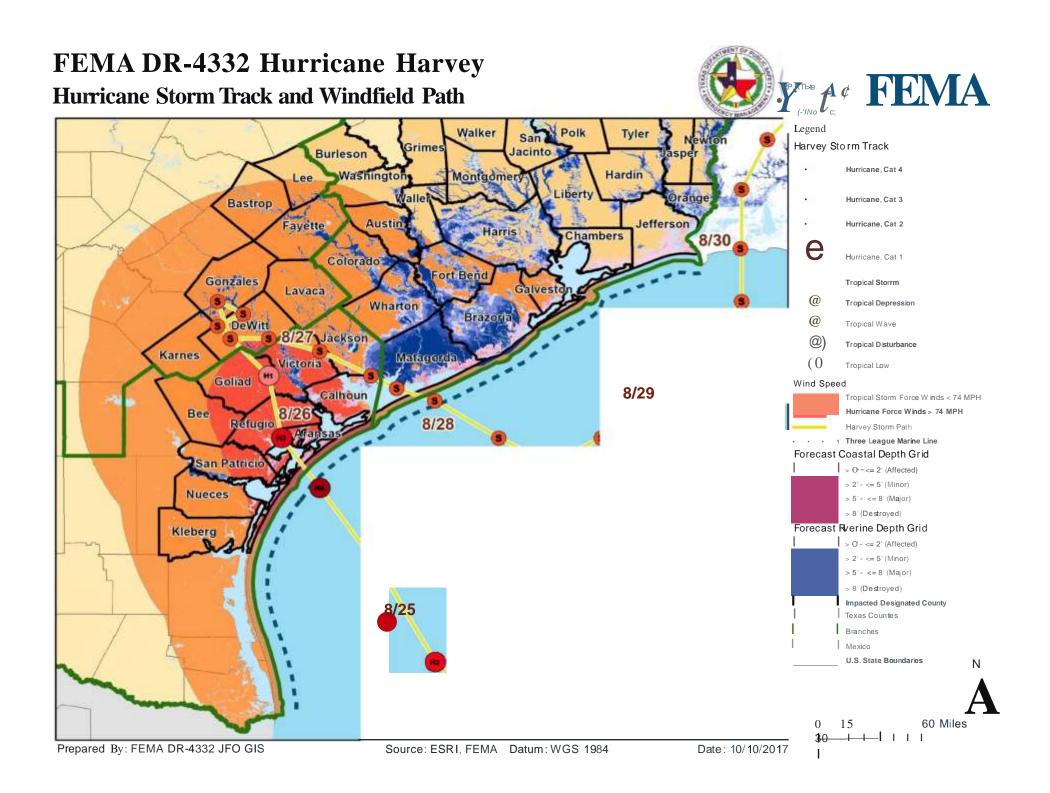




DR-4332 - Quick Facts

- Initial landfall as a Category 4 storm on San Jose Island (near Port Aransas / Rockport area) around 10:00 pm on August 25th.
- Winds up to 135 mph (ENE of Port Aransas
- 12'+ storm surge at Aransas Wildlife Refuge
- Longest-lasting named storm after making hurricane landfall in Texas on Record (Harvey lasted 117 hours)
- More than 4 days between initial landfall and final landfall in Louisana (~4:00 am on August 30th).
- Areal coverage of locations picking up at least 20" of rain (7-day rainfall) > size of the state of West Virginia.
- Top 7-day rainfall total of **60.58" in Nederland**
- Over 1 trillion gallons of water fell in Harris County during 4 days (August 26th-30th).

Source(s): Corpus Christi WFO Harvey Summary, CSU Hurricane Harvey Meteorlogical Records & Notable Facts Recap, NWS Brownsville WFO, NWS Lake Charles WFO and Harris County Flood Control District

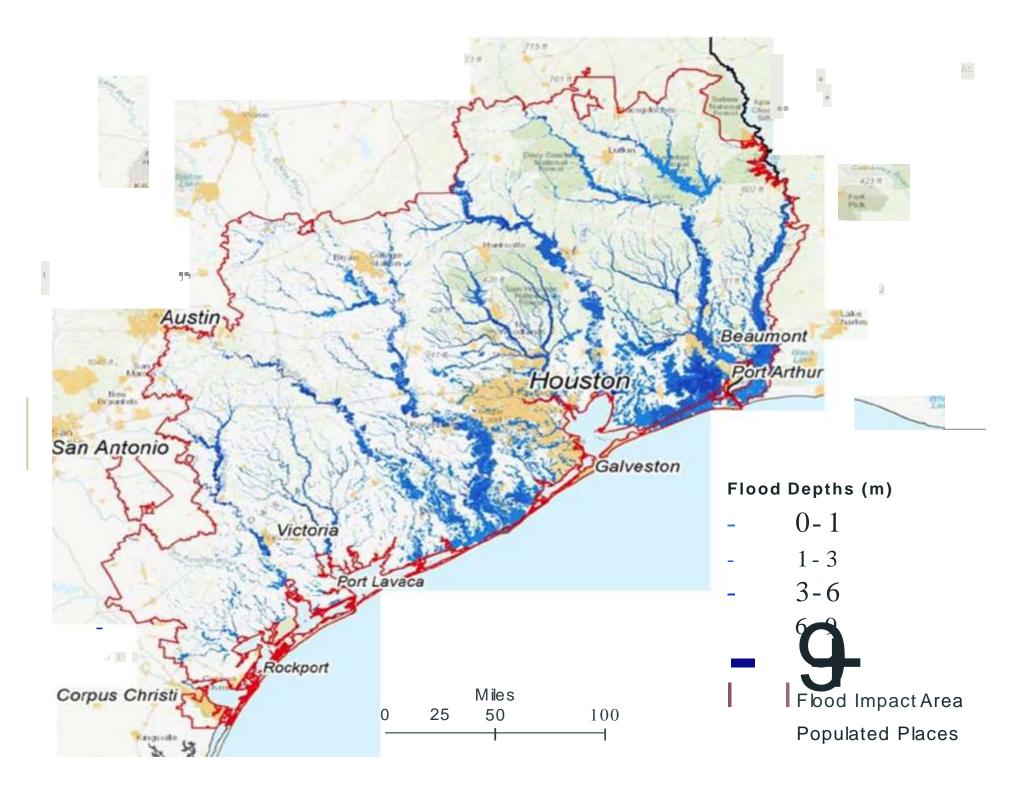


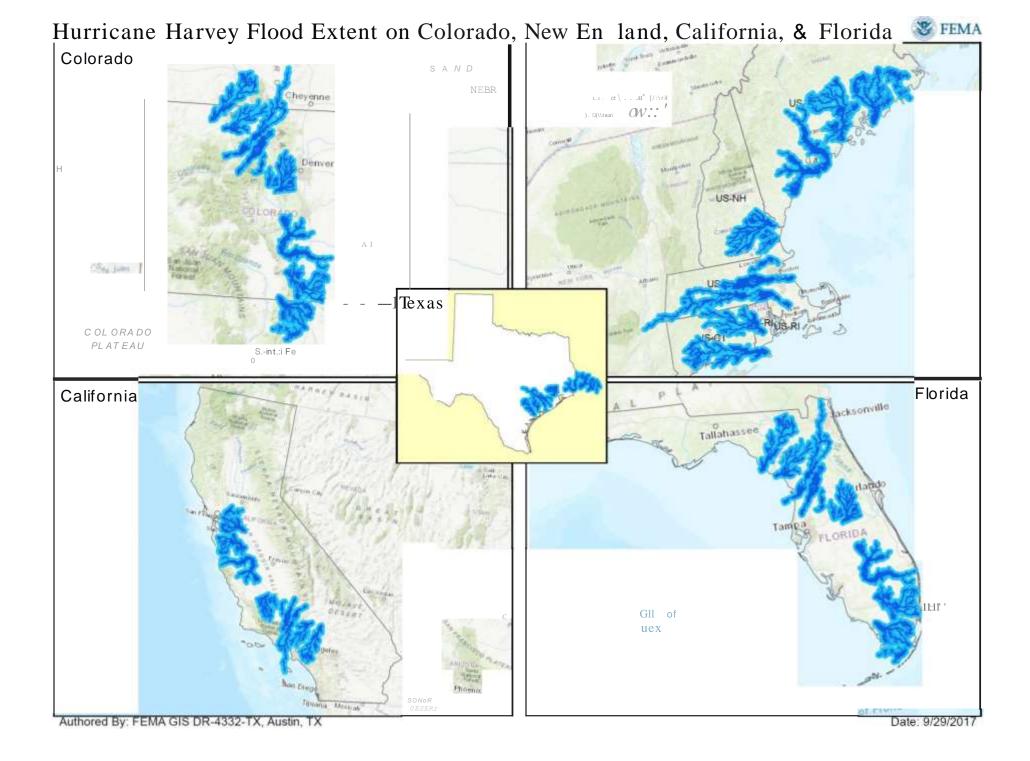
Harvey Rainfall (8/24 through 9/1)

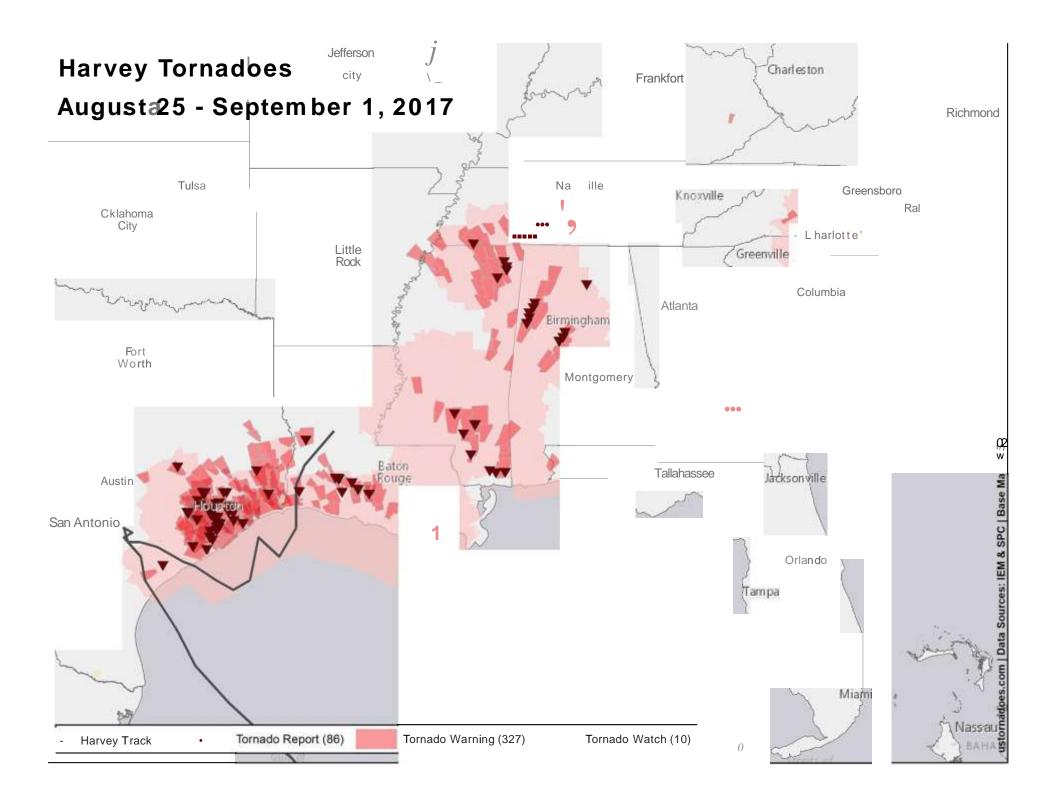
60.58" near Nederland, Texas
60.54" in Groves, Texas
56" in Friendswood, Texas
54.77" near Santa Fe, Texas
54" near Bunker Hill Village, Texas
52.87" on Clear Creek at Interstate 45 near League City, Texas

1-2,99	
3-4.99"	
5-6.99	- Ši
7-9.99	ii
15-19.99"	
20.24 99"	- ăi
ED E 110.0	01

Maximum: 60.58" Nederland SW, TX









I-10 Under Blue Skies

10.27

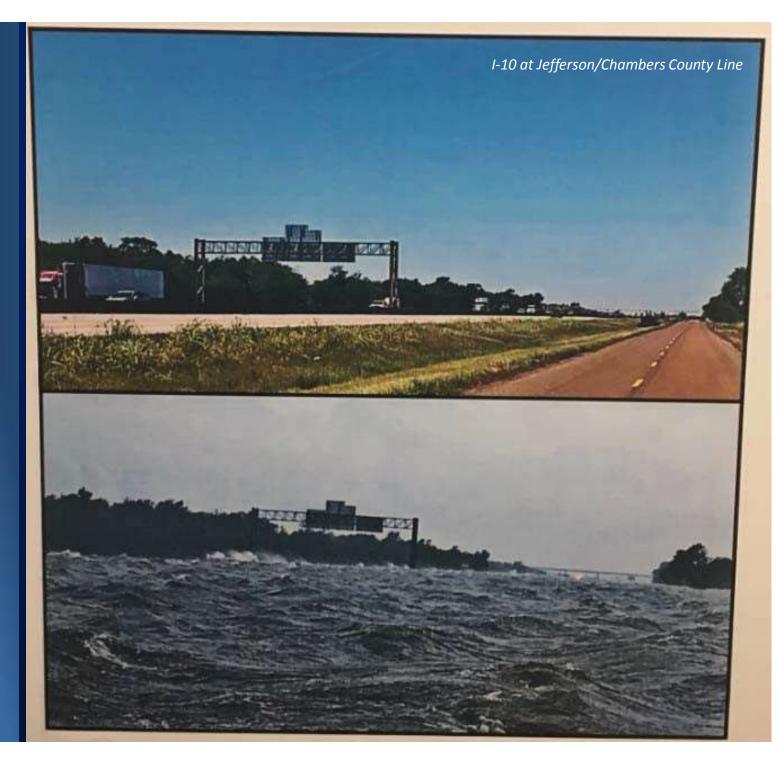
I-10 at Jefferson/Chambers County Line

I-10 at Jefferson/Chambers County Line

I-10 Under Storm Surge















DR-4332 – Hurricane Harvey Impact

- 1,397,796 population under evacuation order
- 323,320 power outages (at peak on 8/28)
- 40 wastewater facilities were non-operational (at peak on 9/7)
- At peak, 61 public water systems were inoperable (8/31 & 9/4) and 203 had boil water notices (9/1)
- 245 shelters with 34,139 population during peak shelter operations (3 open with a total of 483, as of 10/19)
- \$327,767,581 in reported State agency costs (as of 10/19)









DR-4332 Response - TEEX

- Texas Engineering Extension Service (TEEX)/Texas Task Force 1 (TX-TF1)
 - Personnel deployed 21,433 from 103 agencies under TEEX/TX-TF1 command
 - Rescues 34,062*
 - Air 1,056
 - Ground/Water 33,006
 - Personnel evacuated 35,046
 - Pet rescues 2,055







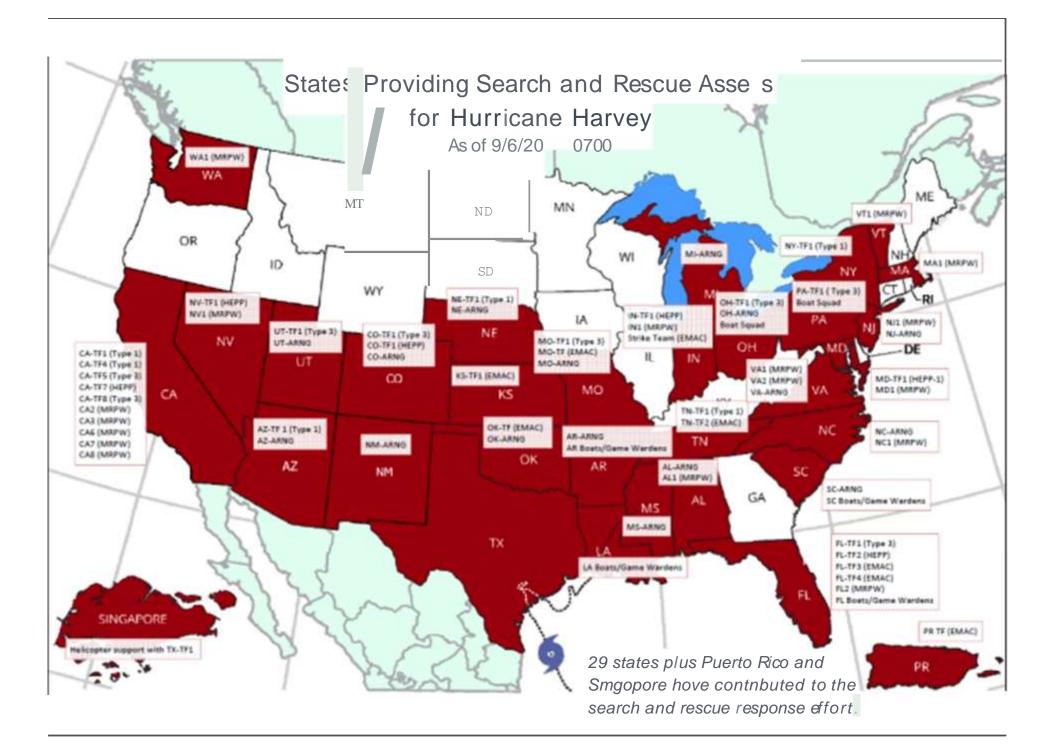
Out of state search and rescues (SAR) teams

- Teams deployed 23
- Personnel deployed 877 EMAC; 1,066 FEMA US&R

• Rescues – 2,995

*Preliminary data

Angeles Fire





DR-4332 Response – TxDPS

- Department of Public Safety (DPS)
 - Personnel deployed ~1,340
 - DPS air rescues ~211

*Preliminary data







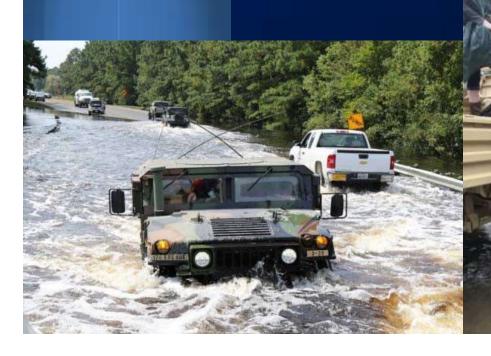
DR-4332 Response- TMD

- Texas Military Department (TMD)
 - Personnel deployed 17,415
 - Rescues 16,383
 - Air 1,457
 - Ground /Water 16,012
 - Evacuations 18,137
 - Pet rescues 1,214



*Preliminary data

THE PARTY



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DR-4332 Response – TPWD

ADT

- Texas Parks and Wildlife
 - Personnel deployed ~400

TEXAS PARKS & WILDLIFE

• Rescues – 11,212

*Preliminary data





- Texas A&M Forest Service (TFS)
 - Apparatus used total 293
 - Total personnel deployed 217
 - August 29 peak day for deployment operations
 - Personnel deployed 198









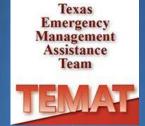
DR-4332 Response - AHIMT & TIFMAS

- All-Hazard Incident Management Teams (AHMIT)
 - 86 AHMIT members deployed
 - 12 out of state IMTs deployed with 334 members
 - TFS Lone Star State IMT 57 members
- Texas Intrastate Fire Mutual Aid System (TIFMAS)
 - Personnel deployed at peak 709
 - Apparatus used at peak 274
 - Personnel deployed total 974
 - Apparatus used total 294











DR-4332 – TEMAT & TMS

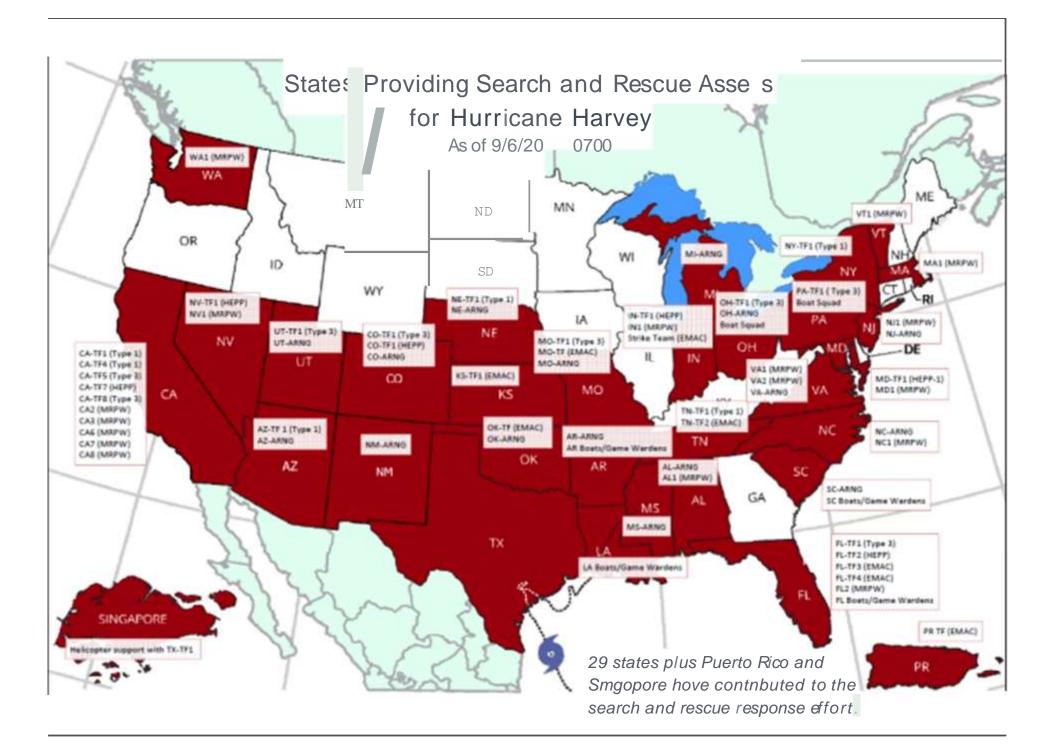
- Texas Emergency Management Assistance
 Team (TEMAT)
 Brandon Barth
 - 52 personnel deployed to 10 locations
 - 188 PWRT personnel deployed to 28 locations
- Transportation Group
 - Total buses ordered and used – 650







*Preliminary data





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Harvey Response DPS Region 1

- Activated a Regional Coordination Center,
 consisted of the physical collocation of DDCs
 4 Garland and Hurst, and virtual coordination
 with DDC 6 Tyler
- Received evacuees from impact areas via aircraft and ground transportation
- Reception center in Mesquite, air evacuee entry at Love Field and DFW Airport, transition hub in Tyler and bus staging area in Arlington and Fort Worth







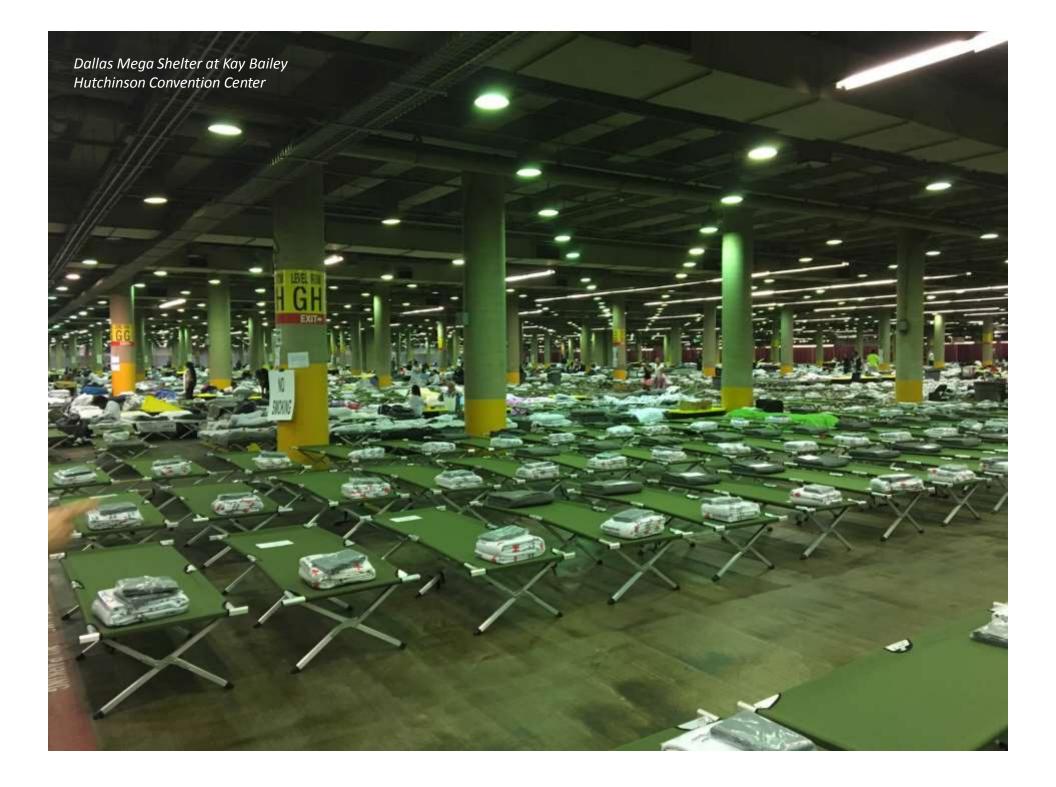
Harvey Response DPS Region 1

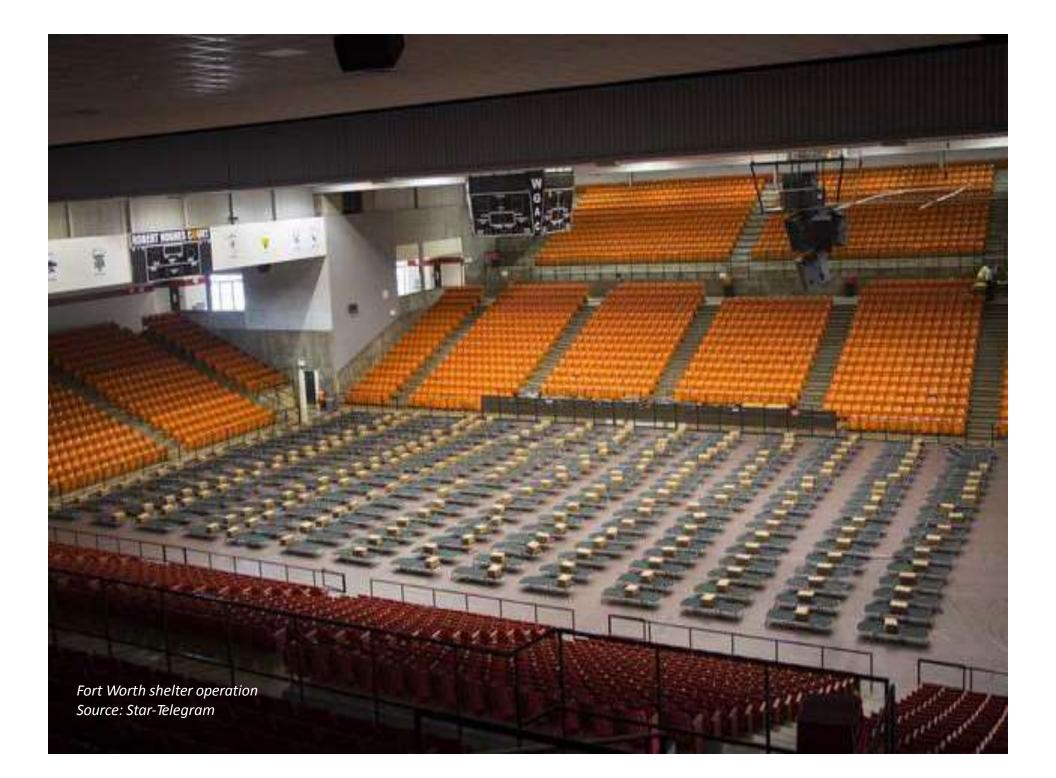
- More than 1 month of DDC/RCC operations (phase up began 8/23; return to normal status 9/30)
- 8 shelter facilities (gen pop) opened in total; total shelter census = ~3,500* (2,917 on 9/8)
- First shelter opened 8/25, and the last shelter closed 9/30 (37 days of shelter operations)
- Significant amount of resources from our area were deployed and engaged in Harvey response across the State

Facilities used as shelters

Based on anticipated evacuee numbers counties would coordinate with cities to determine shelter facilities (order of opening, stand by, advance planning / additional capacity).

Region 1 Shelter Line	e Up		N2	No.			
FOUO ONLY	-	Not for media release			Updated as of	9/13/2017 5:00 PM	
*currently used for a	ny host shelter needs due to Hur	ricane Harvey					
					-	<u>p</u> ;	
Reception Center(s)							-1275-04-0/00-0
Status	Location	Batting Order	Lead Time Needed	Opening Day/Time	Jurisdiction	County	DDC
Operational	15515 Interstate 20, Mesquite	Up to Bat	24hrs	8/25	Mesquite	Dallas	DDC 4 Garland
Ops Discontinued	Dallas Love Field		n/a	closed ops	Dallas Love Field	Dallas	DDC 4 Garland
Ops Discontinued	DFW Airport		n/a	closed ops	DFW Airport	Dallas/Tarrant	DDC 4 Hurst
Shelter Status				Constitute	formation		
Shelter ID	Chalken Fastling	Channe	Patting Ondan	Capacity Information		Lead Time Needed	On an in a Daw/Tim
A CONTRACTOR OF	Shelter Facility	Status	Batting Order	Planning Capacity	Current Count		Opening Day/Tim
001	Walnut Hill Rec Center	Closed		301		3 hours	8/25 1300
002	Tommy Allen Rec Center	Closed	×	220		3 hours	8/26 0700
003	Samuel Grand Rec Center	Closed	N.	186		3 hours	8/27 1600
004	Lively Pointe Youth Center	Occupied *	Up to bat 🔹 👻	210	13	3-4 hours	8/27/2017 8:00 p.m
005	Worth Heights	Closed	×	100		2 hours	8/28/2017 6:00 p.
006	Wilkerson Greines	Occupied *	Up to bat 🛛 👻	270	87	3 hours	8/28/2017 9:00 p.
007	Fort Worth Covention Center	Closed		550		3-4 hours	
008	Mega Shelter	Occupied *	Up to bat 🔹 👻	5,000	672	1 hour	8/29/2017 9:00 a.
009	Loos Field House	Closed 🔹		500	0	24 hours	
		*	*				
	*	*	*				
	*	*	*				
	*	*	•				
	*	¥	•	9497	772		
	v			Hidden Cells Totals	Total Occupancy		
	×	×	¥				

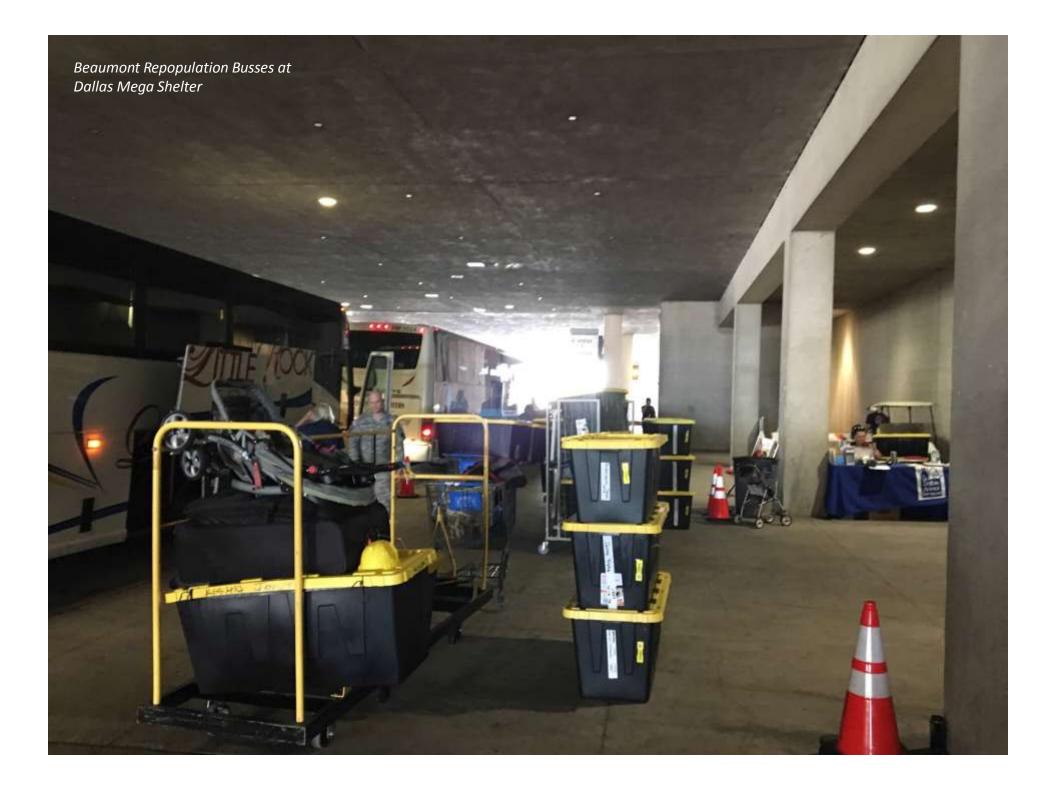


















DR-4332 - Harvey Recovery

- 61,135 individuals in hotels through the Transitional Shelter Assistance (TSA) program (24,314 rooms in 1,865 hotels)
- 57 Disaster Recovery Centers (DRCs) open
- 30,000,000 cubic yards of debris (estimated), with 7,343,848 (26%) cubic yards removed & collected (as reported)
- 188 temporary debris sites established





DR-4332 - Harvey Recovery

- 875,141 total cumulative Individual Assistance (IA) registrations
- \$1,198,814,209 approved through the Individuals and Households Program (IHP)
- 5,705 FEMA personnel assigned (3,672 TX)
- 42 expedited Project Worksheets (PWs) processed (24 Cat A, 18 Cat B)
- 581 eligible RPAs processed (as of 10/19)





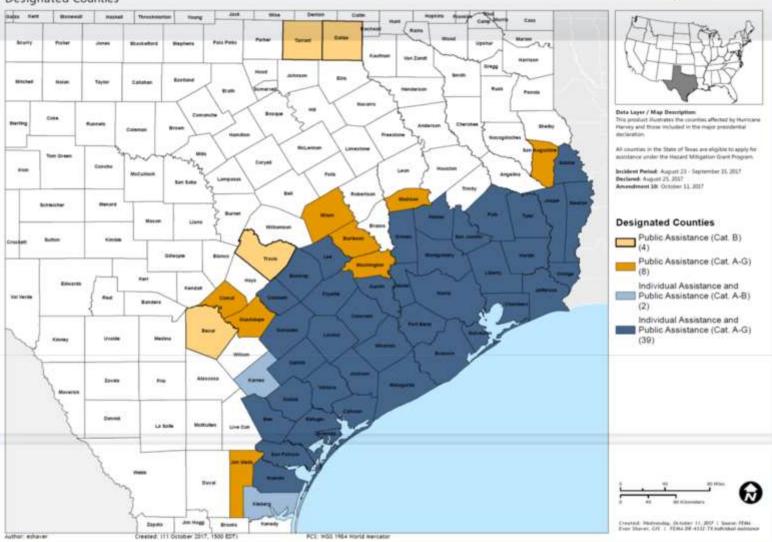
Individual Assistance and Public Assistance in the designated areas and Hazard Mitigation

SFEMA

FEMA-4332-DR-TX - Hurricane Harvey

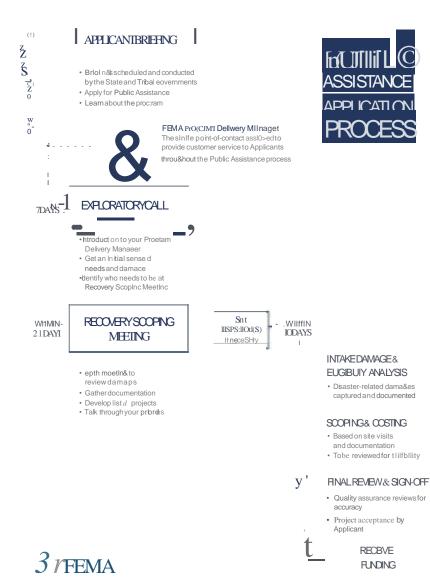
Designated Counties

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Delivery Model: Specialization



Roles and responsibilities based on fitting the right skill sets against the applicant's requirements to effectively execute recovery consistently from disaster to disaster

Program Delivery Manager

Single FEVA Point of Contact that coordinates applicant recovery priorities.

Ste Inspector

Conducts Applicant's site inspection(s)and develops consistent, quality Damage, Description, and Dimensions for review by the Program Delivery Manager and Applicant.

Technical Specialist

Technical expert available to provide on-site expertise for specialized projects.





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Sarah Haak, MBA, MSHSM District Coordinator, Garland 4B 214-629-4271 Sarah.Haak@dps.texas.gov The Aftermath of Flooding: Cascading Effects on Local Jurisdictions and Emergency Management

...and how it involves you



Kay Bailey Hutchinson Convention Center parking garage before Hurricane Harvey



NCT Shelter Support: Volunteers

Shelters

- 1 Irving Shelter
- 2- Fort Worth Shelters
- 4- City of Dallas Shelters
- Volunteers

Thousands: CERT, Medical Reserve Corps, Red Cross, Catholic Charities, RACES, Islamic Relief, multiple VOADs, spiritual groups, AA, many others

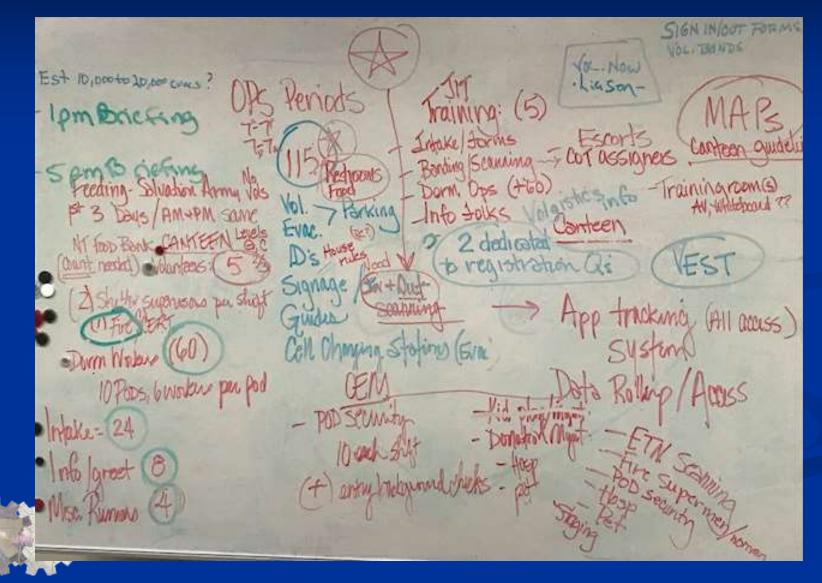
Challenges

- Requires background checks
- Stressed volunteer agencies, vetting agencies,
- 💪 EM/locals
 - Scheduling, Parking

Overview of Considerations

- Real time information from impacted south
- Volunteer management
- Donations management
- Security/law enforcement
- Medical operations/transport
- Pets, service animals
- Parking
- Guest transportation
- Resources, support services
- Repatriation plan

Mega Dorm Planning, Eve of Opening (x5)



Players

- State and National Guard resources
- Emergency management, local/regional
 - EM resources from around the region supplemented local resources
 - Hours, complexity, continuous change taxed all players, experienced and new
 - Required forms, documentation
 - Coordination between lead agencies, support agencies
 - Management, logistics, local, state, federal
 - Red Cross, City of Dallas
 - Suppliers, VOADs, all volunteer agencies



A Little Help From our Friends





Mega Shelter Logistics

Staffing for guest arrivals/in residence 120 volunteer roles per shift Check-in, banding/tracking Transport/storage guest belongings Bedding, other for functional needs guests Wheelchairs, walkers, oxygen, c-pap Healthcare assistance for aide-dependent guests Hygiene, personal care; product distribution Food, clothing, baby needs (strollers, cribs) Services (FEMA, SS, VA, childcare, internet, phone, entertainment, clergy, legal, stress)

Stress Reduction: A Priority for All



Statewide Impacts/Aftermath



Gas

- Midnight, Aug. 30
- 45 minutes.....
- Housing
- Continuity of operations
- Economic/business
- Transportation/travel
 - Air
 - Land

Sea

Water, wastewater



Unprecedented: Still a Local Event

Needs exceed resources (local > region > state) Over-reliance on FEMA Fragmented capabilities MOU partners also impacted Communications Misinformation/delayed information/no comms Frustrations, need to act Decisions often based on current need and circumstances (financial, expediency)

This Has Something To Do With Me?

Yes! Pre-plan for the unprecedented

Building codes

- Mythunderstandings
 - Negative impact on new construction/builders?
- Code is minimum to pass
 - Is a C or D acceptable for a child's report card?

SRL properties

- What is plan for buyout?
- What to do, how, in what order?
- Impact on tax base?
- Hazard Mitigation Action Plans

Realistic mitigation strategies/projects/actions, for multiple hazards



Flood Insanity?

Flood insurance, flood zones

Trying the same thing tried over and over with the same results

How to counter: Refusal to buy flood insurance
How to counter: Remaining in a flood prone area
Ideals?

Everyone has flood insurance?

Tiered rates in X zones?

Newest codes adopted and enforced?

HB2040 actively leveraged in unincorporated counties?



Implement floodplain management requirements in Texas?

The "C" Words

Why we must talk about climate change, whatever the origins or cause

- Events are
 - Becoming bigger
 - More destructive
 - Happening more often
- Icecaps are melting, waters warming, coral reefs disappearing

 What is reasonable? Vision for the future, scope, planning/plans, requirements, implementation,
 education, enforcement

What Is Your Role?

We can't prevent hurricanes or other natural hazards, but....

 How can you use your role to advocate for measures that will enhance resiliency?
 What will those measures look like?

- What existing obstacles can be discussed and alleviated with new data and information?
- Are you working with jurisdictions/others whose decisions may impact/enhance your actions?



Think outside the box – it matters today.

Discussion: If It Were You

 Decision to rescind freeboard requirements for rebuilds at or above BFE, post Harvey

- 2' freeboard requirement rescinded for rebuilds after Harvey in Jefferson County; NFIP and CRS participant
- Minimum NFIP standards/requirements only?
 - Short-term benefits
 - Long-term cost benefit
- NFIP/CRS impacts:
 - Loss of CRS/discounts
 - Additional NFIP discounts

Contact



Emergency Preparedness

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