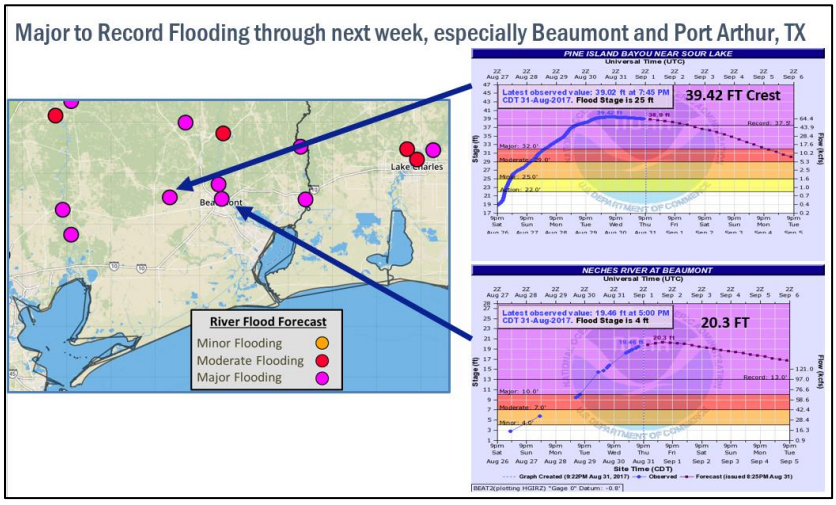
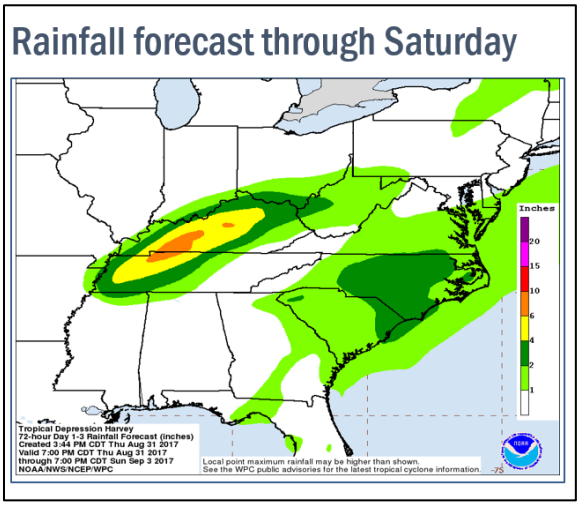
Senior Leadership Briefing
Tropical Depression Harvey
Friday, September 1, 2017 (5:00 a.m. EDT)
Updates in Blue

Current Situation:

Remnants of Harvey will continue to spread over the Tennessee and Ohio Valleys today and into the Mid-Atlantic region and Northeast on Saturday. Rainfall amounts of 1 to 3 inches of rain with locally higher amounts will be possible. The threat for flash flooding continues to become more isolated over time. Rivers and bayous in southeast TX, particularly in the Beaumont and Port Arthur regions will likely remain in major to record flood through next week which will significantly hamper response and recovery activities as several crests will not be reached until this weekend. Any additional rainfall over the next week or two over the area that occurs will lead to slower receding waters. *(NOAA Update, September 1, 2017, 5:00 a.m. EDT)*



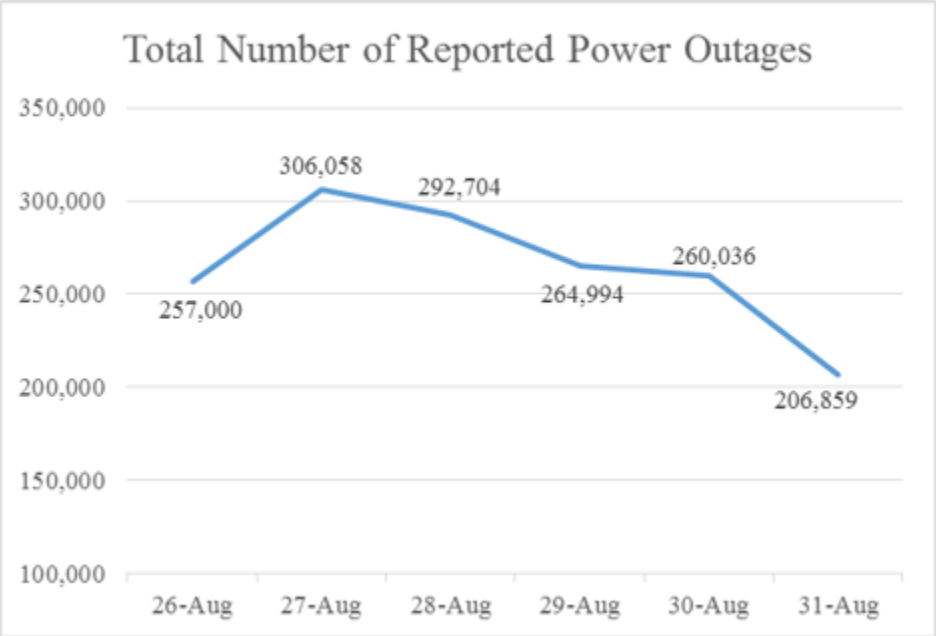


Impact Summary:

- **Evacuations**
  - **Texas**: Mandatory evacuations ordered for an estimated 429,700 (-349,568); additional 234,120 (-745,939) under voluntary evacuation orders in 14 localities; these numbers do not include counties with partial evacuation orders for undefined areas; FEMA Region VI reports a number of localities are beginning to lift evacuation orders *(FEMA RVI, August 31, 2017, 6:00 p.m. EDT)*
    - Beaumont, TX evacuated 400 patients from two hospitals due to loss of water throughout the city; a voluntary evacuation order is in place *(FEMA RVI, August 31, 2017, 12:40 p.m. EDT)*
    - Mandatory evacuations issued for areas downstream from Northwood Retention Dam and Columbia Lakes levee *(FEMA RVI, August 30, 2017, 5:00 a.m. EDT)*
  - **Louisiana**: Mandatory evacuations ordered for 6,882 people; additional 133,478 under voluntary evacuation orders *(NRCC Information Analysis Update, August 29, 2017, 3:56 a.m. EDT)*
- **Shelters:** Three mega shelters open at Houston Convention Center, NRG Stadium in Houston, and Kay Bailey Hutchinson Convention Center in Dallas; current shelter population estimated to be 33,854 (+1,720) at 243 (+11) shelters in Texas and 1,679 (+1,514) people at six (+2) shelters in Louisiana *(ESF-6 update, August 31, 2017, 2:59 p.m. EDT)*
  - Toyota Center opened to take overflow from Houston Convention Center; residents still asked to register at Convention Center *(Mass Care Update, August 30, 2017, 5:00 p.m. EDT)*
- Fatalities: Media reporting at least 40 fatalities; state has not confirmed number of fatalities associated with incident *(Houston Chronicle,, August 31, 2017, 10:02 p.m. EDT)*

- **Critical Infrastructure:**
  - Airports:
    - Open: George W. Bush Intercontinental (IAH), Corpus Christi International (CRP)
    - Closed: Beaumont (BPT) except for limited response operations, primarily rotary wing, estimated reopening September 4; Houston Executive (KTME) accepting limited relief flights; and Sugarland Regional (KSGR) closed except for helicopter flights
    - Federal Aviation Administration (FAA) has two active Airspace Coordination Areas (ACA) in Texas and three ACAs for Louisiana; standing by to issue special authorization to enable access to controlled airspace
    - FAA issued multiple Temporary Flight Restrictions (TFRs) around Houston for safety rescue operations *(ESF-1 Update, September 1, 2017, 2:49 a.m. EDT)*
  - Roads:
    - Multiple highways and roads closed, including major westbound routes into Texas from Southwest Louisiana
    - Federal Highway Administration (FHWA) staff answering toll-free routing hotline for federal/state responders (National Response Program/ESF-1 Initiative); 220 calls have been answered *(ESF-1 Update, September 1, 2017, 2:09 a.m. EDT)*
  - Rail: Operations remain suspended; railroad inspection and repair crews pre-staged in areas surrounding the storm's impact zone *(ESF-1 Update, September 1, 2017, 1:29 a.m. EDT)*
  - Public Transit:
    - Service suspended: Port Author Transit, Beaumont Transit, Fort Bend
    - Resumed service: Gulf Coast Center Connect Transit, Island Transit, Corpus Christi, VIA (San Antonio), Lake Charles Transit, Austin Capital Metro
    - Partial service: Houston METRO, The Woodlands Township, Brazos Transit, Golden Crescent Regional Planning Commission, REAL, Inc. (rural transportation Aransas Pass, Port Aransas, Rockport, Refugio), Capital Area Rural Transportation *(ESF-1 Update, September 1, 2017, 1:29 a.m. EDT)*
  - Ports:
    - Closed: Victoria, TX
    - Open with restrictions: Corpus Christi, Houston, Galveston, Texas City, Freeport, Beaumont, Port Arthur, Orange TX and Lake Charles, LA
    - Open: Brownsville, TX and all other Gulf of Mexico ports *(USCG Update, September 1, 2017, 2:00 a.m. EDT)*
  - Power Outages: 206,859 customers in TX and 1,708 in LA without power *(ESF-12 Update, August 31, 2017, 11:47 p.m. EDT)*
  - Oil and Natural Gas:
    - The Vice President of the Texas Food and Fuel Association and the Texas Railroad Commissioner confirm that the fuel supply chain is adequate, however distribution challenges exist due to sporadic increases in demand at specific locations; sufficient fuel supply exists to support response and recovery operations, and to service existing contracts *(Region VI Update and RSS Call, September 1, 2017, 12:00 a.m. EDT)*
    - No report of substantially impacted availability of nationwide fuel capabilities or capacity; no report of shortages outside area directly affected by Harvey
    - 10 of 30 refineries in Gulf Coast region shut down; six refineries assessing damage; restarting may take several days or weeks; two refineries operating at reduced rates; no reports of refineries unable to restart due to lack of commercial power
    - Colonial Pipeline continuing operations; service out of Houston disrupted *(ESF-12 Update,, August 31, 2017, 1:42 p.m. EDT)*
  - Water: City of Beaumont lost water service from its primary and secondary pump stations; all potable water facilities currently underwater; no water supply for city water system at this time
    - Eight pumps from USACE are en route, arrival expected September 1*(Region IV Update,, August 31, 2017, 11:38 p.m. EDT)*
    - Facilities will remain shut down until lines can be flushed to ensure decontamination
    - FEMA Region VI and TX with support teams establishing water distribution *(FEMA RVI, August 31, 2017, 1:39 p.m. EDT)*

- Dams and Levees:
  - United States Army Corps of Engineers (USACE) actively monitoring Addicks and Barker reservoirs near Houston; controlled releases required to mitigate risk to structure; backup gate operation procedures in place because normal systems became flooded on Addicks
  - USACE coordinating with Harris County Flood Control district; warning to downstream constituents being conveyed *(ESF-3 Update August 31, 2017, 4:47 p.m. EDT)*
- Flooding: Flood inundation damage estimates project more than 137,000 affected residential homes, including more than 24,000 with major damage (5+ feet of flood) across 29 counties; modeling based on development of flooding depth grids using river, coastal, and tide gauges; then verified with satellite imagery *(FEMA GIS Modeling, August 31, 11:44 a.m. EDT)*



Declaration Activity: (see Declarations Map, page 14)

- **Texas**
  - Major Disaster Declaration FEMA-4332-DR-TX effective August 25, 2017:
    - Amendment No. 2, effective August 30, includes 11 additional counties approved and added for Individual Assistance, Category A and B: Colorado, Fayette, Hardin, Jasper, Jefferson, Montgomery, Newton, Orange, Sabine, San Jacinto, and Waller; an additional three counties (Dallas, Tarrant, and Travis) were added for emergency protective measures (Category B) under the Public Assistance program, bringing the total number of counties under disaster declaration to 33 *(Amendment No. 2 to Disaster Declaration, August 30, 2017, 12:43 p.m. EDT)*
    - Amendment No. 1, effective August 27, for 19 counties
    - Federal Coordinating Officer (FCO) is Kevin L. Hannes *(Amendment No. 1 to Disaster Declaration, August 27, 2017, 5:00 p.m. EDT)*
- **Louisiana**
  - Emergency Declaration FEMA-3382-EM-LA effective August 27, 2017:
    - FEMA authorized to provide emergency protective measures (Category B), including direct federal assistance, under the Public Assistance program for five parishes *(Emergency Declaration Summary 3382, August 28, 2017, 8:21 a.m. EDT)*
    - Amendment No. 1, effective August 28, includes seven additional parishes approved and added for emergency protective measures (Category B), including direct federal assistance, under the Public Assistance program *(FEMA Email, August 31, 2017, 7:29 p.m. EDT)*
    - FCO is William J. Doran III

Federal Force Laydown: (See Federal Force Laydown Map, page 13)

Department/Agency	Personnel Deployed	Department/Agency	Personnel Deployed
FEMA – Deployed (includes FEMA Corps)	1,745 (-369)	National Weather Service	82 (0)
FEMA – Other Support	2,038 (+30)	Department of Defense - Guard Bureau	5,743 (0)
Urban Search & Rescue	1,133 (0)	Department of Defense – Title X	6,378 (0)
Health and Human Services	1,104 (0)	General Services Administration	35 (0)
Department of Transportation	15 (0)	U.S. Army Corps of Engineers	124 (0)
United States Coast Guard	1,260 (+370)	Department of the Interior	118 (0)
DHS – NPPD	24 (0)	U.S. Forest Service	218 (0)
Department of Energy	4 (0)	Small Business Administration	50 (0)
US Department of Agriculture	11 (0)	Transportation Security Administration	157 (0)
Law Enforcement (ESF 13)	1,138 (0)	Housing and Urban Development	1 (0)
Customs and Border Protection	742 (+102)	Department of State	6 (0)
TOTAL			**22,125 (+127)**

FEMA Headquarters:

- National Response Coordination Center (NRCC) activated to Level I (24/7) (all Emergency Support Functions [ESFs] and Liaison Officers [LNOs]) *(NRCC Planning Section Update, August 28, 2017, 4:00 p.m. EDT)*
- Interactive heat map developed on rescue operations and damage assessments providing NRCC and the field up-to-date situational awareness with data updated every 5 minutes *(Region IV Situational Awareness Section, August 31, 2017, 11:36 p.m. EDT)*
- **Recovery**
  - Total IHP registrations approved: 418,194 (+51,604) for $74,082,764 (+$10,982,459) *(Recovery Update, September 1, 2017, 12:00 a.m. EDT)*
  - Surge staffing continues for FEMA Strategic Workforce Augmentation Team (SWAT) for taking calls from three National Processing Service Centers (NPSCs), FEMA pop-ups, FEMA Headquarters, all FEMA Regions, and from home; 2,203 (+390) staff projected to be online with capacity for 33,553 (+5,940) calls *(Recovery Update, September 1, 2017, 12:00 a.m. EDT)*
  - First Mobile Disaster Recovery Center (DRC) will open Friday, September 1 at Edna High School Football Stadium in Edna, TX *(ESF-6 Update, August 31, 2017, 1:37 p.m. EDT)*
  - Transitional Sheltering Assistance (TSA): 8,492 families have checked into hotels from 29 TX counties *(Recovery Update, August 31, 2017, 4:54 p.m. EDT)*
  - Housing Inspection Services confirmed 1,050 inspectors are on the ground, with 172 additional inspectors expected on the ground September 1 *(Recovery Update, September 1, 2017, 12:00 a.m. EDT)*
- **Federal Insurance and Mitigation Administration**
  - Over 51,000 National Flood Insurance Program (NFIP) claims submitted in TX
  - $1.7 billion available to pay claims and $5.8 billion in borrowing authority to pay claims resulting from Hurricane Harvey
  - Engagement continues with Write-Your-Own (WYO) stakeholders
  - Flood insurance adjusters in TX working with policy holders to ensure claims filed correctly and insurance money begins flowing smoothly
  - General Adjusters in field to support initial damage assessments and assist with positioning adjuster resources *(FIMA Update, August 31, 2017, 2:00 p.m. EDT)*

FEMA Region VI:

- Regional Response Coordination Center (RRCC) activated to Level I (24/7)
- Joint Field Office (JFO) in Austin, TX opening September 1 *(Operations and Logistics Teleconference with the Regions, August 31, 2017, 10:00 p.m. EDT)*
- **Texas**
  - Governor declared State of Disaster for 50 counties as of August 26 *(State of Texas Press Release, August 26, 2017, 3:21 p.m. EDT)*
  - State EOC at Full Activation
  - Active Emergency Management Assistance Compact (EMAC) missions include swift water, boat, advisory teams, civil support teams, patient medevac support, transitional shelter and housing subject matter experts, and helicopters; additional requests and pending mutual aid for additional swift water rescue, incident management teams, helicopters, and other support in process *(National EMAC Sit Rep #7, August 31, 2017, 1:00 a.m. EDT)*
    - 26 states are actively or in the process of providing support via EMAC at this time *(SITREP #10, September 1, 2017, 1:00 a.m. EDT)*
- **Louisiana**
  - Governor declared State of Emergency for 64 parishes *(FEMA Region VI Spot Report, August 29, 2017, 5:31 p.m. EDT)*
  - State EOC at Level I (24/7) Operations (ESFs 1, 3, 6, 7, 8, and DoD)
  - New Orleans EOC at Full Activation *(FEMA Region VI Spot Report, August 30, 2017, 1:00 a.m. EDT)*

Interagency Coordination/Response:

- ***ESF-1: Transportation***
  - Port assessments underway in the Corpus Christi, TX area; United States Army Corps of Engineer (USACE) Survey of deep draft channel will be completed September 1
  - Mission assignment approved by Region VI to pursue MARAD first responder lodging options
  - Galveston bound cruise ships arriving to disembark passengers September 1 *(USCG Update, September 1, 2017, 12:34 a.m. EDT)*
- ***ESF-2 Communications***
  - National and/or Regional Critical Infrastructure within the incident area (TX & LA):
    - Telecommunications Service Priority (TSP): 2,285 (+710) TSP Circuits out of service
    - Network Outages: 139,529 (+39,773) consumers out of service
    - Public Safety Answering Points (PSAP): 8 (-3) affected; no PSAPs down without a re-route; 0 (0) rerouted to Admin Lines, and 8 PSAPs are re-routed to other PSAPs
    - Switching Centers: 36 (-6) out of service, and 38 (+13) on back-up power
    - Wireless Network Status: 296 (-33) cell sites out of service, 211 (+25) cell sites on back-up power, and 7,297 (+8) sites are fully operational
    - Broadcast Radio Stations: 29 (+2) stations on air, and 9 (0) stations out of service
    - TV Stations: 11 stations on air, and 03 (+02) station out of service
    - Cable Services: 94,686 (-32,133) video subscribers without service in Texas, 47,468 (-18,162) VoIP subscribers without service, 233 (0) Telephone subscribers without service, and 130,610 (-48,126) Broadband subscribers without services
  - 27 Mobile Emergency Response Support (MERS) teams (75%) comprised of 120 personnel and equipment from all six MERS detachments are deploying / deployed to Texas and Louisiana to establish distributed tactical radio networks in support of search and rescue efforts, provide critical mission voice and emergency communications to incident management elements, ensure interoperable communications, and provide mobile offices to impacted areas
  - 25 Mobile Communications Office Vehicles (MCOVs) and 31 Operators are deploying / deployed to eight (8) locations in Texas to provide voice and data to incident management, survivor assistance, and DSAT staging *(ESF-2 Update, September 1, 2017, 3:47 a.m. EDT)*

- ***ESF-3: Public Works and Engineering***
  - Receiving additional mission requirements for TX (Debris, Emergency Power, Infrastructure Assessment and Temporary Housing) and scoping to ensure clarity of request and marrying up needs with appropriate assets
  - Identifying Infrastructure Systems Recovery Support Function (IS-RSF) field coordinators for TX and LA
  - Channel and Entrance Channel hydrographic surveys underway; seven USACE survey vessels conducting surveys across Gulf Intracoastal Waterway *(ESF-3 Update, August 31, 2017, 1:56 p.m. EDT)*
- ***ESF-4: Firefighting***
  - Three Incident Management Teams (IMTs) and four crews currently assigned to manage resource staging areas and one IMT assigned to support TX EOC *(ESF-4 Update, September 1, 2017, 12:56 a.m. EDT)*
- ***ESF-5: Emergency Management***
  - NOAA conducting imagery operations; one aircraft focused on Houston inner beltway (2/3 complete, remaining 1/3 to be complete September 1); second aircraft focused on bayous northeast of Houston and bayous south towards the Houston shipping channel *(NOAA Update, August 31, 2017, 11:43 p.m. EDT)*
  - Royal Singaporean Air Force with U.S. National Guard conducting response and recovery operations after President Trump's acceptance of the offer for assistance from Prime Minister Lee of Singapore; FEMA's International Affairs Advisor working with DoD's NORTHCOM, Department of State and the JFO to integrate the Singaporean assets *(FEMA International Affairs Update, August 31, 2017, 11:58 p.m.)*
- ***ESF-6: Mass Care***
  - American Red Cross requesting 25 high profile vehicles to support movement of supplies and resources to shelters, including independent shelters. Trucks will meet at staging area in Hempstead, TX to pick up supplies, move supplies to shelters, and check on independent shelters to count shelter population and identify unmet needs *(American Red Cross Update, September 1, 2017, 1:18 a.m. EDT)*
  - Harris County consolidating small shelters into mega shelter at NRG Reliant Park, which can hold a maximum 10,000 individuals, per unconfirmed media reports *(Houston Chronicle, August 31, 2017, 5:18 p.m. EDT)*
  - Current shelter population estimated to be 33,854 (+1,720) at 243 (+11) shelters in Texas and 1,679 (+1,514) people at six (+2) shelters in Louisiana *(ESF-6 update, August 31, 2017, 2:59 p.m. EDT)*
  - Donations and Volunteer Management Task Force working with TX to open an 800-number line and find staffing to support call volume for unsolicited donations and unaffiliated volunteers
  - Voluntary Organizations *(ESF-6 Update, August 31, 2017, 2:03 p.m. EDT)*
    - Global Giving met $1.8 million of the $5 million target for hurricane relief fund *(ESF 6 Update, September 1, 2017, 12:59 a.m. EDT)*
    - Direct Relief sent 10 shipments of medical aid to clinics in Houston, Dallas, Katy, Beaumont, and other impacted communities. *(ESF 6 Update, September 1, 2017, 12:58 a.m. EDT)*
    - As of August 31, 2017, Houston Flood Relief Fund collections totaled $11.6 million *(ESF 6 Update, September 1, 2017, 1:00 a.m. EDT)*
    - American Red Cross working with Southern Baptist and other Voluntary Organizations Active in Disasters (VOADs) to open nine mass feeding kitchens by Saturday
    - FEMA Voluntary Agency Liaisons (VALs) coordinating with National VOAD to identify organizations that can provide wrap-around services for shelters and individuals in transitional sheltering
- ***ESF-7: Logistics Management and Resource Support***
  - One Incident Support Base (ISB) opened at Randolph-San Antonio, TX, bringing the total to three
  - Federal Staging Area opened at Bryan, TX
  - Staging location opened at Kelly, TX
  - Cabaniss, TX under selection for responder support camp/contracting pends
  - Joint Base Ellington no longer viable site; surveying a second site adjacent to Joint Base Ellington
  - 320 General Services Administration (GSA) owned and leased Federal buildings in affected areas in TX and LA; 34 (-1) closed *(ESF-7 Update, August 31, 2017, 1:44 p.m. EDT)*

Commodities Staged in TX

Product	Number Ordered	En route - ISB/FSA	Arrived - ISB/FSA	Released to State
Generators	199 (+62)	0 (-12)	129 (+3)	0
Meals	28,733,520 (+1,756,400)	1,981,530 (+1,408,218)	7,524,421 (+1,483,258)	2,774,565 (+860,560)
Sheeting	8,000	0 (-624)	6816 (+624)	0
Tarps	24,188	1,560	22,426	0
Water (Liters)	44,214,606 (+974560)	3,108,132 (+753,708)	9,095,516 (+2,282,448)	2,690,552 (+724,272)
Blankets	128,002	117,500 (+117,500)	4,761	4,761
Cots	84,861	33,689 (+6,198)	7,372 (+4,801)	7,125 (+5,688)
Fuel	159,600 (+53,600)	0	0	0
Hygiene	134,496	9,496 (-30,365)	30,365 (+30,365	10,365 (10,365)
Infant/Toddler Kits	180	20	20	0
Durable Medical Equipment (reusable)	3	0	3	0
Consumable Medical Supplies (one-time use)	2	0	2	0

(ESF-7 Update, September 1, 2017, 2:50 a.m. EDT)

Commodities Staged in LA

Product	Number Ordered	En route - ISB/FSA	Arrived - ISB/FSA	Released to State
Generators	29	0	29	0
Meals	1,419,000	0	1,475,076	416,124
Tarps	22,000	0	19,088	0
Water (Liters)	2,000,000	306,000 (-306,600)	2,029,706 (+306,000)	414,069
Blankets	4,500	0	5,202	0
Cots	2,100	0	2,160	0
Infant/Toddler Kits	10	0	10	0
Durable Medical Equipment (reusable)	1	1	1	0
Consumable Medical Supplies (one-time use)	1	1	1	0

(ESF-7 Update, September 1, 2017, 2:50 a.m. EDT)

- ***ESF-8: Public Health and Medical Services***
  - Full Incident Response Coordination Team in Dallas relocating to Austin on September 1
  - TX requested assistance with patient movement; resource and capabilities from National Disaster Medical System (NDMS) staged and mobilizing to support
  - 140 total evacuation missions completed by TX and over 956 medical patients evacuated or transferred from multiple facilities
  - 15 (-15) hospitals evacuated/closed; seven hospitals re-opened
  - 41 (+2) nursing homes closed
  - 38 (-46) dialysis facilities closed *(ESF-8 Update, September 1, 2017, 4:49 a.m. EDT)*
- ***ESF-9: Search and Rescue (SAR)***
  - Total number of people rescued by Federal responders to date estimated at over 16,800 individuals and 1,500 pets *(ESF-9 Update, August 30, 2017, 11:36 p.m. EDT)*
    - USCG: Rescued or assisted 10,557 survivors and 1,429 pets *(ESF-9 Update, August 31, 2017, 10:36 p.m. EDT)*
    - DoD NORTHCOM: Rescued/assisted 1,072 *(Department of Defense Update, August 31, 2017, 2:00 a.m. EDT)*

        - DoD/T-10: 935 *(DoD update, August 31, 2017, 8:00 a.m. EDT)*
        - FEMA Urban Search and Rescue (US&R): Rescued/assisted at least 4,555 individuals and 203 pets *(ESF-9 Update, August 31, 2017, 10:36 pm. EDT)*
        - U.S. Customs and Border Protection (CBP): 483 air rescues and 34 maritime rescues *(CBP update, August 31, 2017, 3:00 p.m. EDT)*
    - USCG Assets:
        - 39 rotary wing and 12 fixed wing assets (51 total aircraft), including 28 rotary wing and three fixed wing assets in TX, nine rotary wing assets in LA, and two rotary wing and nine fixed wing assets in AL *(ESF 9 updates, August 31, 2017, 10:36 p.m. EDT)*
        - Nine flood punt teams with 25 boats, 6 ice skiff teams with 6 boats, and 4 air boat teams with 4 boats conducting urban SAR in Houston/Galveston area *(ESF 9 updates, August 31, 2017, 10:36 p.m. EDT)*
        - Five flood punt teams with 14 boats, 6 air boat teams with 6 boats, and 3 shallow water boat teams with 15 boats working US&R in the Port Arthur area *(ESF 9 updates, August 31, 2017, 10:36 p.m. EDT)*
    - United States Department of the Interior is supporting FEMA Task Forces with boat assets *(ESF 9 updates, August 31, 2017, 10:36 p.m. EDT)*
    - Long-term Base of Operations for all FEMA US&R resources established in Katy, Texas *(ESF 9 updates, August 31, 2017, 10:36 p.m. EDT)*
    - ESF-9 has confirmed 16 additional FEMA Type 1, Type 2, Type 3 or Type 4 US&R task forces are in reserve, ready to deploy (ESF-*9 update, August 31, 2017, 2:09 p.m. EDT)*
- ***ESF-10: Oil and Hazardous Materials Response***
    - Explosion at the Arkema Chemical Plant in Harris County, TX 4:19 a.m. on August 31; evacuation order in effect for residents within a 1.5 mile radius of facility
        - As of August 31, 2017 5:30 p.m. EDT, three additional peroxide trailers are close to critical temperature and within 30 feet of each other
        - EPA deployed an On-Scene Coordinator and EPA Region 6 is working with FEMA Interagency Modeling Atmospheric Assessment Center on modeling of anticipated future releases at the site; products are being delivered to Unified Command
        - Harris County Office of Homeland Security and Emergency Management is conducting air monitoring in the area and Poison Control Centers are set up to help citizens with health related questions
        - Airborne Spectral Photometric Environmental Collection Technology (ASPECT) conducted overflight of facility on August 30-31 to provide near-real time information to the On-Scene Coordinator
        - Monitoring teams from the Houston area are expected on-site September 1
    - EPA water program assisting the Texas Commission on Environmental Quality by conducting calls to assess the functioning status of over 4,521 Drinking Water Systems, and 2469 Waste Water Systems *(EPA EOC Spot Report - Update #1, August 31, 2017, 7:20 p.m. EDT)*

Hurricane Harvey Wastewater Operational Status

Status Code	Status Detail	Status Code Description	Number of Systems*
OK	No Problems	WWTP and Collection system fully operational and on grid power	376
OpGen	WWTP and Collection on Generator	WWTP and/or Collection system is fully operational and on Generator Power or bypass pumps for lift stations (generator wear out/refueling concerns).	21
Pop	WWTP and Collection Partially Operational SSO	WWTP and/or Collection system partially operational – Sanitary Sewer Overflow (SSO) in collection system (public health concerns).	15
NonOp	WWTP and Collection non-operational no SSO	WWTP and/or Collection system non-operational – No Sanitary Sewer Overflow.	26
SITE	Site Visit Needed	Contact attempted at least 3 times over 3 days by phone. Site visit to be conducted.	0
OUT	Out of Contact - phone eval only	Contact attempted by phone but system unreachable; will call again.	3
NO STATUS	No Status Available	No Contact made.	2028
*Total number of systems from 50 TX counties tracked in Response Manager system.			**2469**
**Codes that result in Red & Yellow will require additional follow up (phone or site visit). Blue codes require a site visit.*			

(EPA OW Management Report, August 31, 2017, 5:20 p.m.)

- ***ESF-11: Agriculture and Natural Resources***
  - San Antonio Zoo, Sea World and Fort Worth Zoo personnel accessing Texas Zoo in Victoria; no animals escaped
    - Dangerous animals are contained; small animals evacuated on August 31 and large animals including big cats planned for evacuation on September 1
  - United States Department of Agriculture (USDA) working with Mass Care Task Force in Austin to order and coordinate distribution of infant formula and other (USDA) requested food
  - Two Food Safety Inspection Service staff deploying to La Porte, TX to resume operations as early as September 5 *(ESF-11 Update, August 31, 2017, 10:40 p.m.)*
- ***ESF-12: Energy***
  - 1,708 without power in Louisiana with expectation that power will be restored by September 7 *(ESF #12, August 31, 2017, 11:47 p.m. EDT)*
  - 206,859 without power in Texas with restoration anticipated September 7-8 (ESF #12, August 31, 2017, 10:24 p.m. EDT)
  - Colonial's gasoline Line 1 and distillate Line 2 continue to operate intermittently from Lake Charles east to Greensboro, NC and are dependent on terminal and refinery supply. Colonial estimates return to service from Houston on September 3, 2017 following an evaluation of its infrastructure and successful execution of its startup plan *(Dept. of Energy Situation Report #14, August 31, 2017, 3:30 p.m. EDT)*
  - Secretary of Energy authorized the Strategic Petroleum Reserve (SPR) to negotiate and execute an emergency exchange agreement with the Phillips 66 Lake Charles Refinery authorizing 200,000 barrels of sweet crude oil and 300,000 barrels of sour crude oil to be drawn down from SPR's West Hackberry site and delivered via pipeline to the Phillips 66 refinery *(Dept. of Energy Situation Report #14, August 31, 2017, 3:30 p.m. EDT)*
  - 10 refineries in the Gulf Coast region were shut down according to public reports, with a combined refining capacity equal to 31.7% of total Gulf Coast refining capacity and 16.6% of total U.S. refining capacity *(Dept. of Energy Situation Report #14, August 31, 2017, 3:30 p.m. EDT)*
- ***ESF-13: Public Safety and Security***
  - Conducting force protection and administrative missions in affected area with 59 Quick Reaction Teams (QRTs) and 18 Mobile Command Vehicles (MCVs)
  - 700 Federal Law Enforcement Officers (FLEOs) approved to support Houston Police Department and TX Department of Public Safety

- Established Law Enforcement camp in Katy, TX with mobile facilities housing with a capacity for 180 FLEOs; larger camp being established in vicinity of NRG Reliant Park, with estimated 756 beds, completion date of September 3 *(ESF-13 Update, August 31, 2017, 9:46 p.m. EDT)*

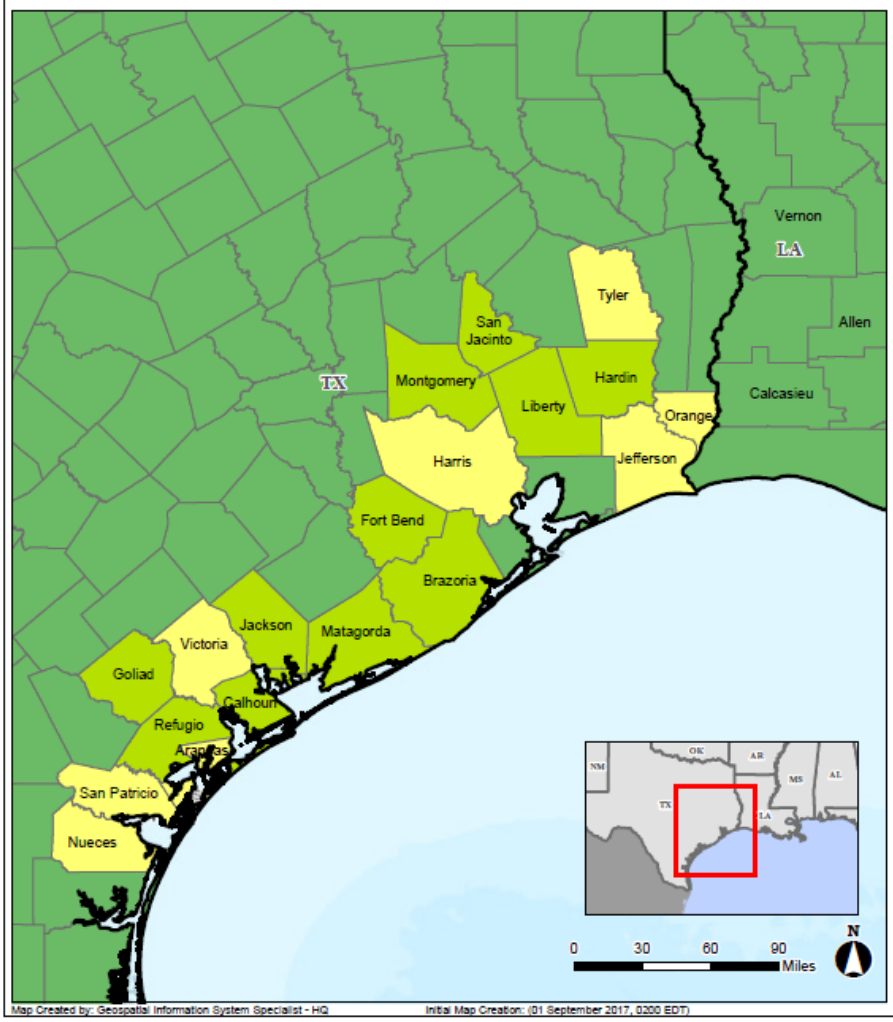
- ***ESF-15: External Affairs***
  - Working to amplify rumor control page through Federal partners to clarify misinformation
  - Social Media:
    - Increasing discussion on challenges in applying or getting assistance through the Transitional Sheltering Assistance (TSA) program due to technical difficulties associated with the 1-800 phone number or checking into hotels provided by TSA
    - Other social media has focused on volunteer, donation, and rescue stories
    - Continuing to highlight Red Cross's Safe and Well registry to assist people in locating family and friends
  - Continuing to support private sector companies with requests for information
    - Coordinated with Outdoor Advertising Association of America to move forward with disaster messaging on 14 billboards running in Jefferson and Nueces county
    - Coordinated with Logistics Supply Chain advisor regarding private sector capabilities for responder housing *(ESF #15 Update, August 31, 2017, 11:12 p.m. EDT)*
- ***U.S. Coast Guard***
  - 65 Strike Force personnel deployed to TX; additional 65 personnel awaiting deployment
  - 890 personnel deployed in support of operations with 370 surging to the area to support *(USCG updates, August 31, 2017, 10:04 p.m. EDT)*
  - USCG has deployed CG Investigative Service law enforcement agents to provide force protection for CG personnel in Houston and is coordinating with ATF to meet need for additional federal law enforcement officers in Texas. *(USCG updates, September 1, 2017, 2:00 a.m. EDT)*
  - USCG Cutter Dauntless en route to deliver water and supplies to Houston/Galveston, expected to arrive at 8:00 a.m. on September 1; USCG Cutter Forward underway for offshore search and rescue coverage off southeast TX; USCG Cutter Benjamin Daily moored at Public Pier 1 in Galveston to provide additional support *(USCG updates, August 31, 2017, 2:00 p.m. EDT)*
- ***U.S. Department of State***
  - FEMA International Affairs Advisor (FIAA) and State Department provided details of resources needed for shelters in TX to Governments of Canada and Mexico
  - FIAA mission assigned Department of State and convened International Resources Coordination Group (IRCG); IRCG streamlines interagency coordination of all offers of international assistance in response to Harvey
  - FIAA and the Department of State received offer of assistance from Government of Japan; FEMA will assess if the offer meets current requirements *(FEMA International Affairs Update, August 31, 2017, 1:40 p.m. EDT)*
- ***National Guard Bureau***
  - National Guard deployed 17,943 personnel in Texas (17,336) and Louisiana (607) *(NGB Update, September 1, 2017, 12:05 a.m. EDT)*
  - Additional 6,000 National Guardsmen from AR, OK, and VA preparing to deploy between September 4-7, 2017, and 28,000 National Guardsmen from 28 states available to deploy if needed *(NGB Update, September 1, 2017, 12:05 a.m. EDT)*
- ***U.S. Department of Interior (DOI)***
  - Providing unmanned aerial systems (UAS) in support of search and rescue operations and aerial imagery support *(DOI Update, August 31, 2017, 10:55 p.m. EDT)*
  - Quick Response Teams currently en route to Galveston and Houston arriving September 1 *(DOI Update, August 31, 2017, 10:55 p.m. EDT)*
  - United States Geological Survey (USGS) collecting high water marks over impacted areas starting September 1 *(DOI Update, August 31, 2017, 10:55 p.m. EDT)*

- ***U.S. Department of Defense***
  - US Northern Command (USNORTHCOM): *(DOD Update, September 1, 2017, 4:10 a.m. EDT)*
    - NORTHCOM remains focused on synchronizing activities to position DOD forces to respond to requests from FEMA and the States of Texas and Louisiana, but are also looking ahead to response options for Tropical Storm Irma--impacts likely in the Puerto Rico, and US Virgin Islands area based upon current predictions.
    - USN: USS KEARSARGE ARG w/ USS Oak Hill and 26th MEU underway off NC coast under Service Authority. Maritime control element arrive San Antonio to support T-10. We are closely monitoring the path of Hurricane Irma to inform best way to employ the ARG/MEU.
    - NORTHCOM's top operational focus remains SAR activities.
    - USNORTHCOM and Joint Staff are actively sourcing additional tactical vehicles (LMTVs) per FEMA request.
    - Total T-10 forces employed in the Harvey Joint Operational Area (JOA) is currently 1013, which includes Title 10 and DOD mission partners. There are an additional 2,290 personnel prepared for future needs.
    - SAR activities remain the top operational focus.
    - Sustainment infrastructure is maturing within the Joint Operations Area (TX). The Joint Force Land Component Commander is building sustainment capability with the 167th Theater Sustainment Command, 3rd Expeditionary Sustainment Command and the 4th Sustainment Brigade.
    - Disaster Aeromedical Staging Facility (DASF) completed establishment today and are prepared to receive patients in Houston at Bush Intercontinental Airport for Aeromedical Evacuation.
  - US Transportation Command (USTRANSCOM):
    - TRANSCOM, in conjunction with Texas National Guard and FEMA, are currently positioning forces at Bush Intercontinental Airport to deploy a Disaster Assistance Staging Facility (DASF) for Aeromedical Evacuation. The DASF will support the care and movement of up to 8,000 patients from the greater Houston-Galveston area *(DOD Update, September 1, 2017, 4:10 a.m. EDT)*
  - Defense Logistics Agency (DLA):
    - Executed contract for TSA to provide 9,000 gallons of aviation fuel at Houston George Bush Intercontinental Airport (HBIA) on August 30, 2017
    - Supporting the US Coast Guard with 45,000 gallons of jet-fuel daily at Ellington Field to support their SAR missions
    - Mission Assignment (MA) for Subsistence issued: 18,470,112 meals to be issued starting September 1, 2017 and 1,521,000 liters of water to be issued starting September 3, 2017
    - MA for fuel support being executed: 100,000 gallons motor gasoline and 500,000 gallons diesel fuel delivered to Ft. Hood; two high-water fuel tank vehicles arrived at Ft. Hood on August 31, 2017
    - MA issued for 575 personal floatation devices to Houston Reliant Park scheduled to arrive on August 31, 2017
    - All 11 leased generators to provide temporary power arrived at Seguin, TX
    - DLA Distribution Expeditionary (DDXX) moved from Seguin, TX to Randolph Joint Base San Antonio (JBSA), TX and is Fully Operational Capable
    - Provided Texas Air National Guard with aviation fuel support at Jack Brooks Regional Airport, Beaumont, TX on August 31, 2017 *(DOD Update, September 1, 2017, 4:10 a.m. EDT)*
  - Civil Air Patrol (CAP):
    - Civil Air Patrol (Texas Wing) flew 10 sorties in the vicinity of Corpus Christi, TX. Photo imagery expected around 4 a.m. on September 1, 2017, and additional 20 photo imagery sorties expected to be flown to meet requests from FEMA GIS and the TX EOC.
    - Civil Air Patrol (Louisiana Wing) flew three sorties at the request of the Governor's Office of Homeland Security and Emergency Preparedness in the vicinity of Lake Charles. Imagery was sent directly to the LA HLS & EP office.

Power Outage Overview: (01 September 2017, 0200 EDT)

FEMA-4332-DR-TX & 3382-EM-LA

FEMA



Data Layer/Map Description:
This map displays the current outages by customer for Texas and Lousiana.

Total Texas Outages: 206,859,
Total Louisiana Outages: 1,708

- >10,000 outages
- 1000- 10,000 outages
- <1,000 outages

Texas Counties with >10k Outages

County	Outages
Orange	27242
Harris	23964
Aransas	18987
Nueces	17451
San Patricio	12647
Tyler	12514
Victoria	11908
Jefferson	10754

Louisiana Counties with >100 Outages

County	Outages
Vernon	600
Allen	135
Calcasieu	125

Data Sources:
FEMA, ESRI;

Map Created by: Geospatial Information System Specialist - HQ
Initial Map Creation: (01 September 2017, 0200 EDT)
Coordinate System: WGS 1984 World Mercator

Federal Force Laydown Map *(As of September 1, 2:00 a.m.)*

FEMA

OTHER SUPPORT / SERVICES
(Not shown on map)
FEMA – Nat'l EMS Contract Support: 200 ground ambulances, 25 RW, 29 FW aircraft. Surge Capacity Force (425 deployed)
ESF-13 - 37 QRTs (1,112 FLEOs) and 189 support staff (QRTs by Agency: **ATF**: 8, **BOP**: 1, CBP: 7, DEA: 4, DOI: 2, **FAM**: 1, **FBI**: 2, **HHS**: 1, **ICE**: 6, **USMS**: 5)
TSA – 402 Surge Capacity Force personnel;
DOD – FW air: C-5, C-17, C-130. RW air: SAR, Heavy Lift, Medium Lift and Medivac assets. High Water Vehicles. AAV, 437 pers (2,582 activated)
USACE - 105 temporary power pers, 6 debris SME, 1 temp housing SME
USCG – 39 RW, 12 FW aircraft, 92 rescue boats, 700 pers (+350 activated), 4 DATs
DOT MARAD – Ready Reserve Force ships
NPPD - CS&C with FAA on UAVs
DNDO – Mobile Radiation Portal Monitors,
GSA – 2 Teams-Public Building Services inspections
FAA - FRA activated Emergency Relief Docket
ATF, DEA, BOP, ICE, FBI, BIA, USCG – Mobile Command Vehicles
USACE, NOAA, USCG – Aids to Navigation (assets pre-staged)
USDA – APHIS; FNS; FSIS
CBP: 13 RW, 4 FW aircraft, 215 SAR pers
National Guard – 109 aircraft, 1821 pers

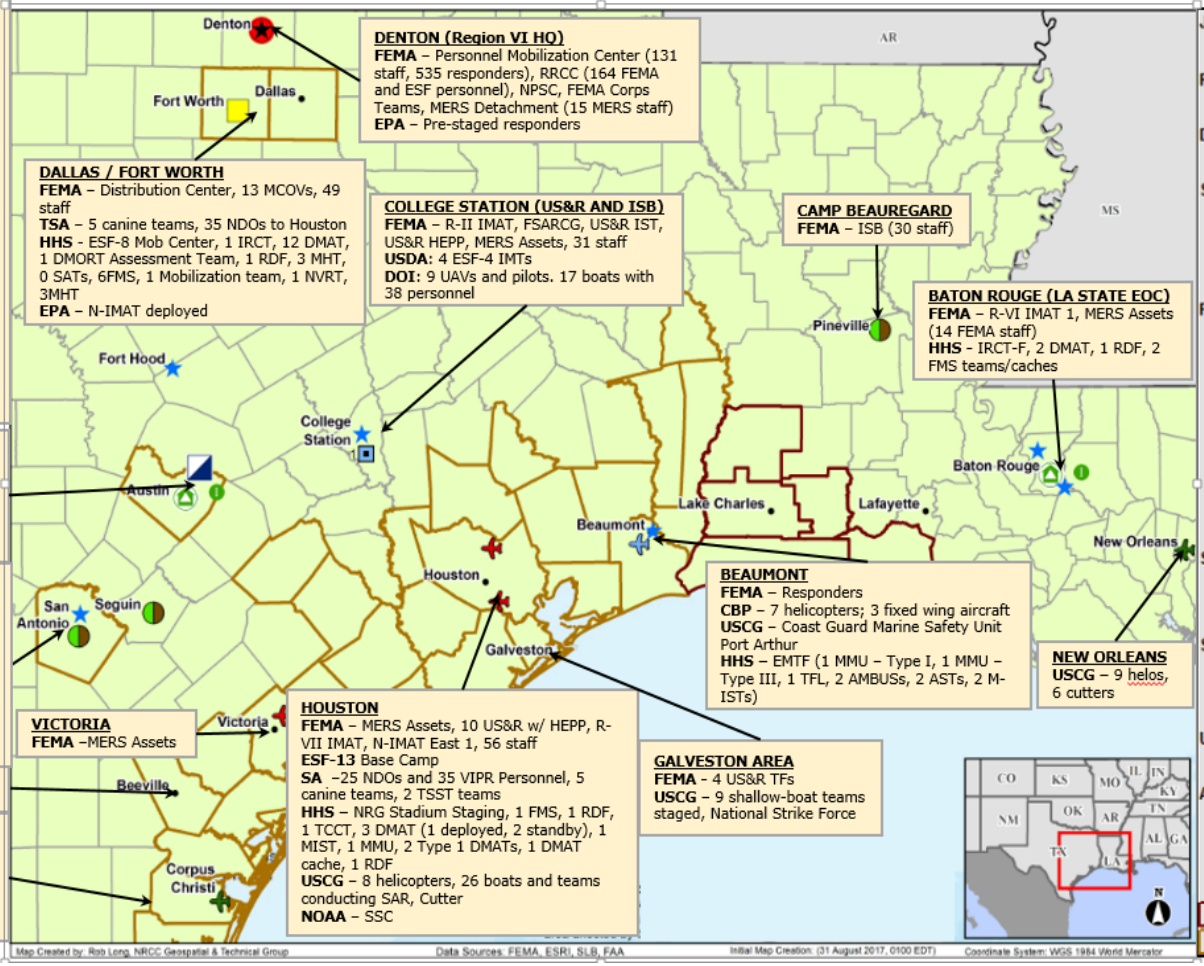
AUSTIN SEOC
FEMA – National IMAT West, R-V IMAT, R-VI IMAT-2, R-VIII IMAT, FEMA Corps, MERS Assets, 3 MCOV, 229 staff
AUSTIN JFO
FEMA – R-VI IMAT-2 (enroute, arr Sep 1)

SAN ANTONIO
(Branch, Staging Area)
FEMA – R-V IMAT, 33 FEMA staff, 2 US&R w/ HEPP (5) and MRP (13)
DOD: FSA at Kelly AFB

RANDOLPH AFB / SEGUIN, TX
FEMA – ISB, MERS Assets, 2 MCOVs (79 staff)
DLA - Expeditionary Distribution to manage/ship trailers (Seguin ISB)

BEEVILLE
FEMA –6 MCOV

CORPUS CHRISTI AREA
FEMA – 2 MCOV, R-II IMAT, 27 staff
EPA – IMT
USCG – 1 RW/ 1 FW SAR aircraft, RNAT, Port Assessment
NOAA - SSC

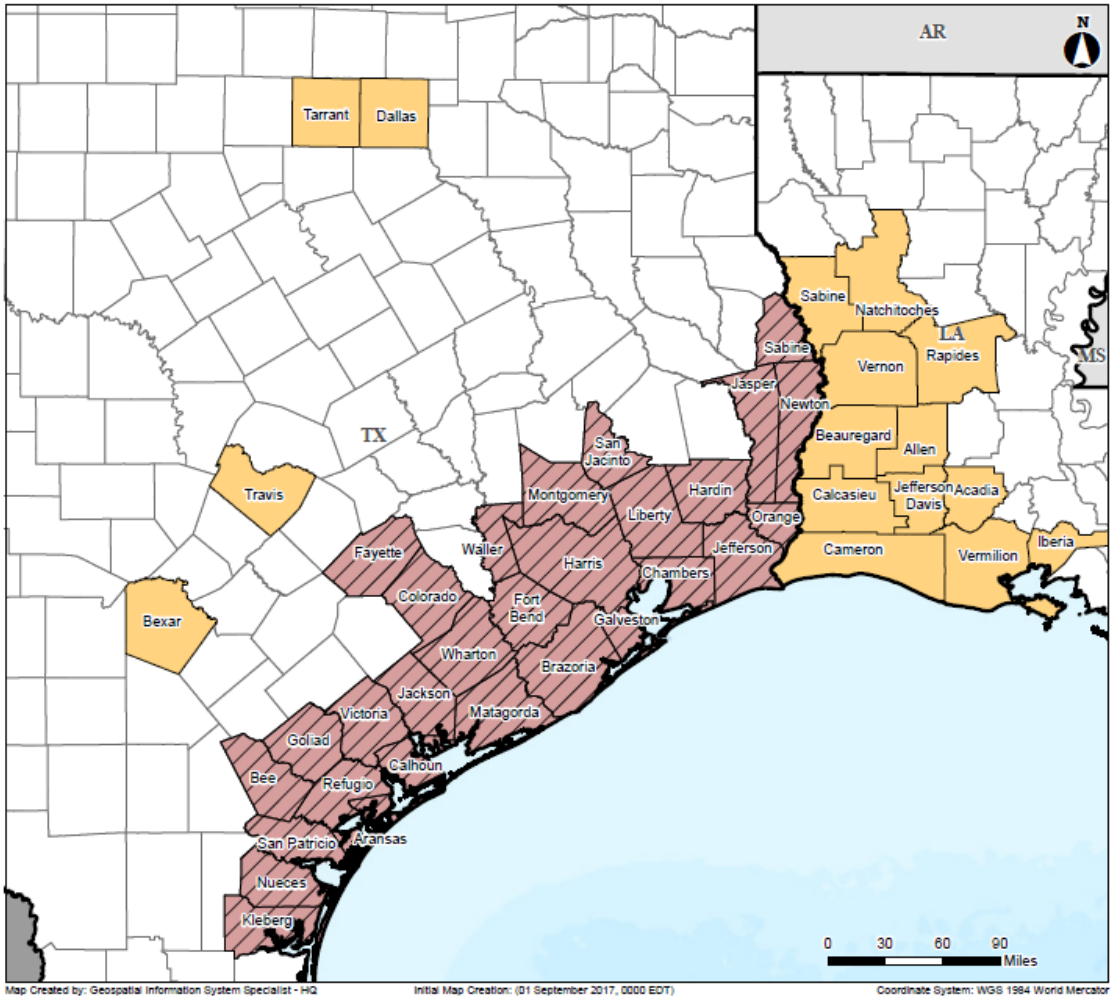


Joint Field Offices
Texas JFO
Regional Response Coordination Center
FEMA Region 6 RRCC
Distribution Centers
Fort Worth (FEMA DC)
State Incident Support Bases
Louisiana ISB (Camp Beauregard/Esler)
Randolph AFB (Main)
Randolph AFB (Auxiliary)
Federal Staging Areas
Texas A&M Riverside
Fort Sam Houston
Louisiana FSA (Sherwood Forest)
Fort Hood
ESF 8 FSA (LA Public Health EOC)
Beeville Chase Field
Beaumont Ford Park
State Interim Operating Facilities
Louisiana IOF
Texas IOF
State Emergency Operations Centers
Louisiana EOC
Texas EOC
US&R Locations
College Station IST
Airport Status as of 1700 8/30/17
Closed
Limited
Open
Parishes named in FEMA-3382-EM-LA
Counties named in FEMA-4332-DR-TX

Federal Declaration Map: (01 September 2017, 0000 EST)

FEMA

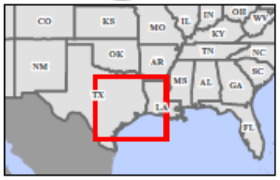
FEMA-4332-DR-TX & 3382-EM-LA



Map Created by: Geospatial Information System Specialist - HQ

Initial Map Creation: (01 September 2017, 0000 EDT)

Coordinate System: WGS 1984 World Mercator



Data Layer/Map Description:
This map displays the types of assistance that have been designated for selected areas in the State of Texas and Louisiana.

Declared_Counties

Designated Counties

IAPAAB — *Individual & Public Assistance (Cat. A & B)*

PAB — *Public Assistance program (Category B)*

NOTE:

Declared Counties in Texas, update taken from Amendment No, 2, August 30, 2017. There are a total of 29 counties declared for IAPA (B) and 4 counties declared for PA (B).

Declared Counties in Louisiana, update taken from Amendment No, 1, August 31, 2017. There are a total of 12 Counties declared for PA (B).

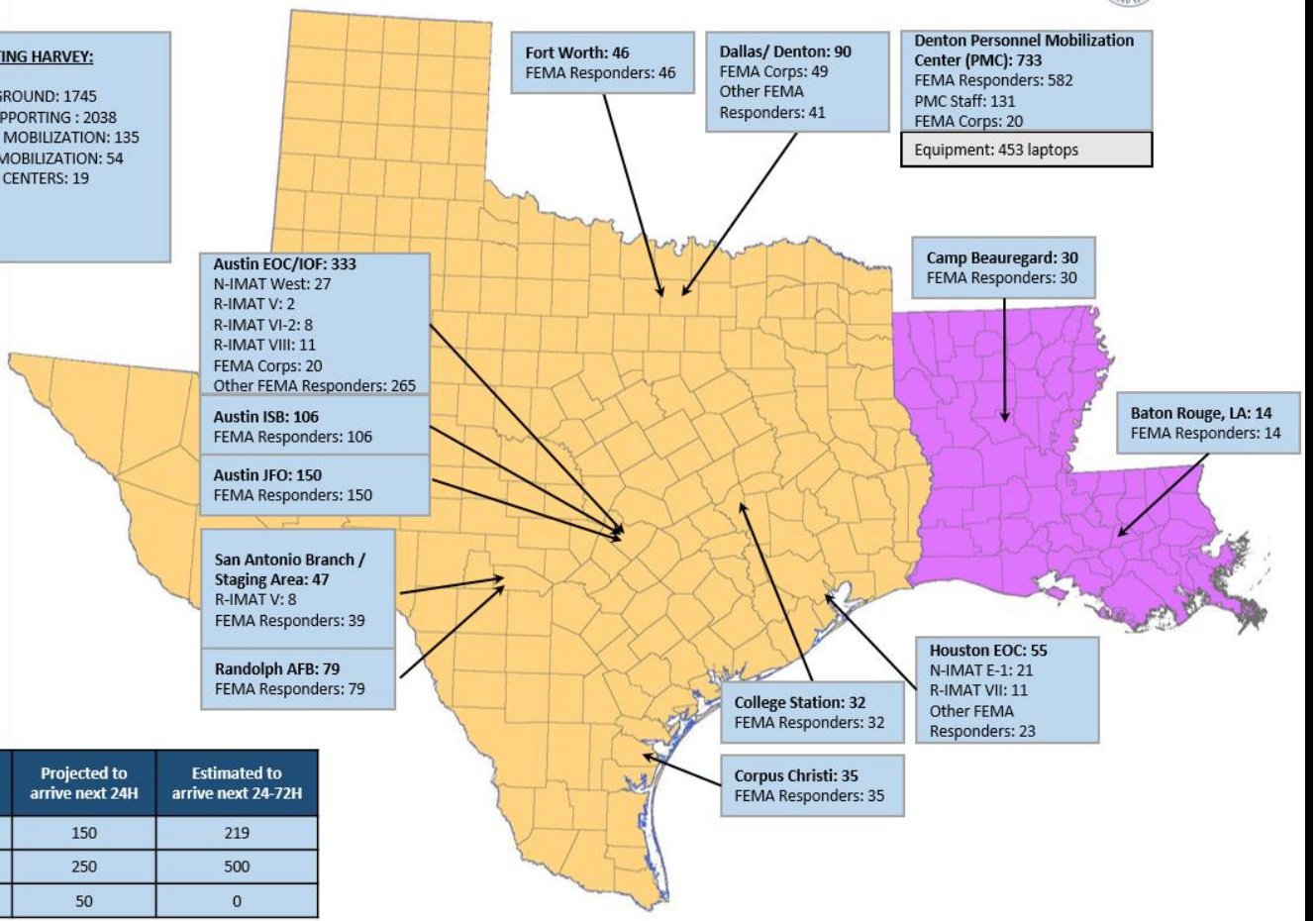
Data Sources:
FEMA, ESRI;

Hurricane Harvey – FEMA Responder Laydown (*As of 1 Sept 2017 1202*)

FEMA

TOTAL FEMA SUPPORTING HARVEY:

RESPONDERS ON THE GROUND: 1745
OTHER FEMA STAFF SUPPORTING : 2038
- CDP SUPPORTING SCF MOBILIZATION: 135
- EMI SUPPORTING AS MOBILIZATION: 54
- OTHER DISTRIBUTION CENTERS: 19
- RRCC STAFF: 175
- NRCC STAFF: 280
- NPSC STAFF: 1375



	Projected to arrive next 24H	Estimated to arrive next 24-72H
Denton PMC	150	219
Anniston, AL – SCF	250	500
Emmitsburg, MD – AS	50	0