Senior Leadership Briefing
Post-Tropical Cyclone Harvey and Hurricane Irma
Monday, September 4, 2017 (5:00 a.m. EDT)
Executive Summary
Updates in Blue

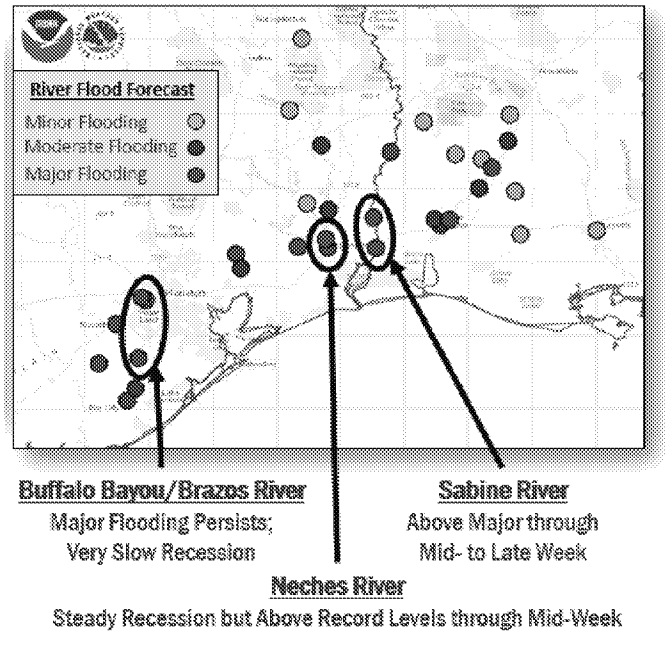
Overview:

FEMA is coordinating the interagency and multi-regional response to multiple events. FEMA is monitoring Post-Tropical Cyclone Harvey in the Northeast U.S. and Hurricane Irma in the Atlantic.

Current Situation:

Post Tropical Cyclone Harvey

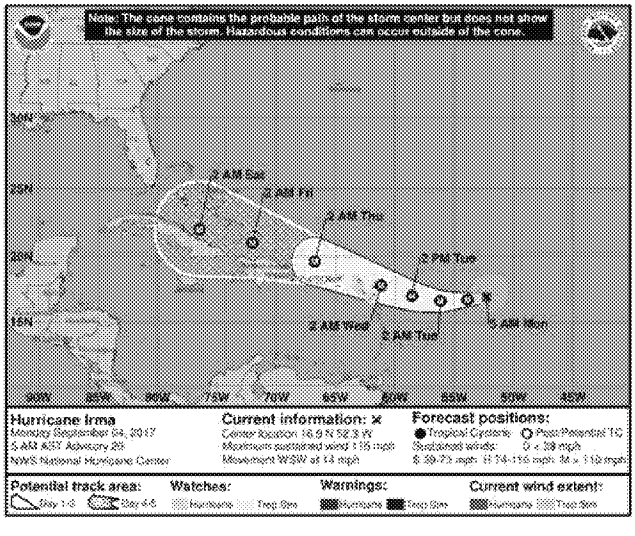
Coastal sections of TX and southwest LA will see heat index values climb into the mid-upper 90s today and again on Tuesday. This may result in heat-related illnesses for citizens without access to air conditioning/cooling areas and additional breaks for responders. Dry conditions over the region will prevail today, but a chance of showers and thunderstorms will be possible Tuesday and Wednesday, Widespread heavy rainfall is unlikely but cloud to ground lightning will be a threat. Dry and cooler conditions will develop into late week with max temperatures reaching only in the 80s. Rivers will continue a slow recession through the week for upper TX and southwest LA coasts, including Houston and Beaumont areas. (*NOAA Update, September 4, 2017, 4:00 a.m. EDT*)



Hurricane Irma

At 500 AM EDT (0900 UTC), the center of Hurricane Irma was located near latitude 16.9 North, longitude 52.3 West. Irma is moving toward the west-southwest near 14 mph (22 km/h). A west-southwestward to westward motion is expected through tonight. On the forecast track, the center of Irma is expected to approach the northern Leeward Islands late Tuesday. Maximum sustained winds are near 115 mph (185 km/h) with higher gusts. Irma is a category 3 hurricane and strengthening is forecast during the next 48 hours.

A Hurricane Watch continues to be in effect for Antigua, Barbuda, Anguilla, Montserrat, St. Kitts, Nevis, Saba, St. Eustatius, and Sint Maarten and Saint Martin and Saint Barthelemy. Interests in the remainder of the Leeward Islands, the British and U.S. Virgin Islands, and Puerto Rico should monitor the progress of Irma. Additional Hurricane and Tropical Storm Watches will likely be required for portions of this area later today. (*NOAA Update, September 4, 2017, 4:00 a.m. EDT*)



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Impact Summary:

- **Shelters:** 227 (-50) shelters open with a population of 34,096 (-4,777); 226 (-44) shelters with a population of 32,399 (-4,396) in TX and one (-6) shelter with a population of 1,697 (-381) in LA *(ESF-6 Update, September 3, 2017, 1:39 p.m. EDT)*
- **Fatalities:** Media reporting at least 45 fatalities; state has not confirmed fatalities number *(Open media, September 3, 2017, 7:00 a.m. EDT)*
- **Schools:** 190 schools reporting damage; 20 with extensive damage, 75 with major damage; anticipating up to 15,000 students displaced *(Region VI RRCC ICU, September 2, 2017, 5:54 p.m. EDT)*
- **Critical Infrastructure:**
  - Airports: Jack Brooks Regional (BPT) closed except for emergency and humanitarian aid; will remain closed until September 5; Texas Gulf Coast Regional (LBX) - Closed except for relief aircraft; restricted flights until September 8 due to flooding. Houston Executive (TME) - Restricted operations; two hour prior permission required due to military operations *(ESF-1, Update, September 3, 2017, 4:23 p.m. EDT)*
  - Ports:
    - Upper Houston Shipping Channel above Mitchells Point/Baytown Highlines closed to ship traffic but open to tug and barge tow traffic *(USCG, Update, September 3, 2017, 10:45 a.m. EDT)*
    - Port of Victoria open with restrictions *(USCG, Update, September 4, 2017, 2:23 a.m. EDT)*
  - Power Outages: 67,500 customer outages in TX (<1% of total state customers) *(NICC Situation Report, September 3, 2017, 11:56 p.m. EDT)*
  - Communications: 103,443 (-2,197) landline consumers out of service *(ESF-2 Update, September 3, 2017, 5:58 p.m. EDT)*
  - Oil and Natural Gas:
    - Seven of ten previously closed refineries are in process of restarting, four are operating at reduced rates *(NICC Situation Report, September 3, 2017, 11:56 p.m. EDT)*
    - 30 (-15) offshore oil and gas platforms remain evacuated; personnel have returned to all 5 of the non-dynamically positioned rigs previously evacuated and all dynamic position rigs are on station *(NICC Situation Report, September 3, 2017, 11:56 p.m. EDT)*
  - Water:
    - Limited or no water capacity in 18 of 35 declared counties *(TX SWEAT Report, September 3, 2017, 8:01 p.m. EDT)*
    - 50 of 4,512 drinking water systems are inoperable; approximately 181 TX water supply systems are under boil water requirements *(ESF-3 Update, September 3, 2017, 5:00 p.m. EDT)*
    - 35 of 2,469 waste water systems are shut down *(ESF-3 Report from the Office of Water Management, September 3, 2017, 5:00 p.m. EDT)*

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Major Flooding: Recession Timing

Basin	Gauge Location	Forecast to Recede Below Major Flooding
San Bernard River	Near Boling, TX	Tuesday (9/5)
Brazos River	Richmond, TX Near Rosharon, TX	Monday (9/4) Possible by Late Work Week
Buffalo Bayou	West Belt Drive (Houston, TX) Piney Point Village (Houston, TX)	Until Further Notice Possible by Mid-Week
Trinity River	Trinity, TX	Tuesday (9/5)
Neches River	Saltwater Barrier, TX Baumont, TX	Beyond Friday (9/8) Late Work Week
Sabine River	Near Bon Wier, TX Deweyville, TX Orange, TX	Late Monday (9/4) Possible by Mid-Week Possible by Upcoming Weekend
Calcasieu River	Oberlin, LA Near Old Town Bay, LA	Possible by Mid-Week Possible by Late Work Week

(NOAA Update, September 4, 2017, 2:00 a.m. EDT)

Declaration Activity:

- **Texas**
  - Major Disaster Declaration FEMA-4332-DR-TX effective August 25, 2017:
    - Amendment No. 4, effective September 2, authorizes 90% federal cost share for debris removal, including direct Federal assistance, and a 100% federal cost share for emergency protective measures, including direct federal assistance, for 30 days from the start of the incident period, and then a 90% federal cost share thereafter *(Amendment No. 4 to Disaster Declaration, September 2, 2017)*
    - The total number of counties under disaster declaration is 36 *(Amendment No. 3 to Disaster Declaration, September 1, 2017)*
    - Federal Coordinating Officer (FCO) is Kevin L. Hannes *(Amendment No. 1 to Disaster Declaration, August 27, 2017)*
- **Louisiana**
  - Emergency Declaration FEMA-3382-EM-LA effective August 27, 2017:
    - The total number of parishes under disaster declaration is 12 *(Region VI Situational Awareness Section, September 1, 2017, 12:01 p.m. EDT)*
    - FCO is William J. Doran II

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Federal Force Laydown: (See Federal Force Laydown Map, page 11)

Harvey

Department / Agency	Personnel Deployed	Department / Agency	Personnel Deployed
FEMA – Deployed	2,409	Dept of Agriculture – USFS	290
FEMA – Other Support	2,143	Dept of Commerce – NOAA	82
FEMA – Urban Search & Rescue	1,136	Dept of Health and Human Services	1,371
DHS – CBP	742	Dept of Energy	7
DHS – TSA	719	Dept of Housing and Urban Development	1
DHS – USCG	1,035	Dept of the Interior – NPS, USGS	222
DHS – NPPD	24	Dept of Justice – ATF, FBI, DEA*	1,928
Dept of Defense – USACE	181	Department of State	6
Dept of Defense – NGB	16,302	Environmental Protection Agency	89
Dept of Defense – CAP	320	Small Business Administration	102
Dept of Defense – Title 10	2,994	General Services Administration	45
		Total	**32,148**

*Represents ESF-13 personnel and may have overlap with other Law Enforcement Agencies in this table.

(RSS Update, September 4, 2017, 1:56 p.m. EDT)

Responder Support Camps:

Location	Total Capacity	Start Date (Estimate)
Ford Park (Beaumont)	Up to 1500	9/8/2017
Cabaniss Field (Corpus Christi)	1000	9/7/2017
USS Lexington (Corpus Christi)	350	9/2/2017
Humble Box Store (Houston	Up to 1000	9/5/2017
Walmart Box Store (Houston)	Up to 2000	9/5/2017
USTS Kennedy	600	9/12/2017
USTS Empire State	650	9/16/2017
USTS General Rudder	50	9/6/2017

(RSS Update, September 4, 2017, 1:56 p.m. EDT)

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)*
- Currently 34 states and 1 territory are supporting operations through Emergency Management Assistance Compact (EMAC) *(EMAC SITREP # 15, September 4, 2017, 1:00 a.m. EDT)*
- **Recovery**
  - Memo released authorizing the use of Critical Needs Assistance (CNA) for DR-4332, Texas, for eligible applicants in Polk, Tyler, and Walker counties
  - Total Individual Housing Program (IHP) registrations: 555,046 (+13,902) *(Open Disaster Report, September 3, 2017, 11:06 p.m. EDT)*
  - Total IHP dollars approved: $139,589,777 (+$7,461,530)
    - Housing Assistance: $48,887,974 (+$4,829,270)
    - Other Needs Assistance: $90,701,802 (+$2,632,259)
  - 115,223 housing inspections issued; 26,558 (26%) completed *(Open Disaster Report, September 3, 2017, 11:06 p.m. EDT)*
  - 225,915 applicants eligible for Transitional Sheltering Assistance; 48,448 (+16,732) applicants sheltered in hotels/motels *(Transitional Sheltering Assistance Summary, September 3, 2017, 3:05 p.m. EDT)*
  - Surge staffing continues for FEMA Strategic Workforce Augmentation Team (SWAT) for taking calls from three NPSCs, FEMA pop-ups, Headquarters, all FEMA Regions, and from home; 2,758 staff, including SWAT, projected to be online with capacity for 42,006 calls *(Recovery Contact Center Surge Staffing Timeline, September 3, 2017, 11:30 a.m. EDT)*

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- **Federal Insurance and Mitigation Administration**
  - As of September 3, over $6.2M in advance payments has been issued to insured survivors
  - Over 71,000 (+4,000) National Flood Insurance Program (NFIP) claims submitted (66,829 in TX and 288 in LA) *(FIMA Update, September 3, 2017, 1:26 p.m. EDT)*

FEMA Region VI:

- Regional Response Coordination Center (RRCC) activated to Level I (24/7)
- Joint Field Office (JFO) in Austin, TX open
- **Texas**
  - State EOC at Full Activation
  - Houston, TX under curfew from 10:00 p.m. to 5:00 a.m. until further notice *(ESF-13 Update, September 1, 2017, 11:41 a.m. EDT)*
- **Louisiana**
  - State EOC at Level III Partial Activation *(FEMA Region II Update, September 3, 2017, 4:00 p.m. EDT)*

Interagency Coordination/Response:

- ***ESF-1: Transportation***
  - United States Coast Guard (USCG), in partnership with other agencies and private industry, is working on surveying channels, repairing aids to navigation, and removing obstructions *(ESF-1 Update, September 4, 2017, 1:00 a.m. EDT)*
- ***ESF-2 Communications***
  - 102 of the 4,200 total cell towers continue to have outages throughout 13 counties *(ESF-2 Update, September 4, 2017, 12:58 a.m. EDT)*
- ***ESF-3: Public Works and Engineering***
  - Controlled releases continue at the Addicks and Barker reservoirs
    - Addicks current elevation - 106.7 feet (-0.46) (flooding occurs 103 feet)
    - Barker current elevation - 98.9 feet (-0.04) (flooding occurs 95 feet) *(ESF-3 Update, September 3, 2017, 7:20 p.m. EDT)*
  - Beaumont, TX surface water treatment plant is operating at 10 million gallons per day (50% capacity) as of September 3; boil water advisory remains in place; USACE pumps are being held in reserve *(ESF-3 Update, September 4, 2017, 1:08 a.m. EDT)*
  - Water is not potable and may only be used to flush or bathe; Beaumont on boil water notice for another 3-4 weeks *(IAB, September 3, 2017 2:18 a.m. EDT)*
- ***ESF-4: Firefighting***
  - Seven Incident Management Teams (IMTs) assigned to Hurricane Harvey; four IMTs and four crews are assigned to manage Resource Staging Areas (RSAs) in Katy, Beaumont, Beeville, and Lufkin, TX; three IMTs working to support emergency operational planning at the community and county level *(ESF-4 Update, September 4, 2017, 1:46 a.m.. EDT)*
- ***ESF-6: Mass Care***
  - Unemployment Assistance: FEMA authorized Disaster Unemployment Assistance for eligible disaster survivors; program is implemented by the Department of Labor in coordination with the Texas Workforce Commission
  - Legal Services: Disaster Legal Services program deploying 100 volunteer attorneys to provide pro-bono legal assistance at the George R. Brown and NRG Center shelters by September 5
  - Voluntary Agencies: FEMA is setting up a donations management warehouse for non-governmental organizations, helping them meet identified needs:
    - Texas National Voluntary Organizations Active in Disaster (VOAD) reports a need for comfort/hygiene kits, cleaning products/clean-up kits, and baby/infant products
    - Central Texas VOAD will be supporting mega shelter in Austin; Society of St. Vincent DePaul to supply a washer dryer unit for the mega shelter
    - Texas Gulf Coast VOAD identified a need for an organization outside of the Red Cross to provide cots

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- Texas has updated its state messaging on volunteers and donations *(ESF-6 Update, September 4, 2017 1:45 a.m. EDT)*

- ***ESF-7: Logistics Management and Resource Support***
  - Mature supply chain delivering 3 million liters of water and 2 million meals daily through two Incident Support Bases (ISBs) (Air Field Seguin and Joint Base Randolph) to 34 Points of Distribution (PODs) supporting survivors; HQ Logistics worked with Region VI to update supply chain delivery numbers based on current consumption. Starting September 6, right-sizing to 1.5M liters of water and one million meals per day *(RSS update, September 3, 2017, 4:00 p.m. EDT)*
  - 12 of 330 General Services Administration (GSA) owned and leased federal buildings in affected areas in TX and LA closed *(ESF-7 Update, September 2, 2017, 3:20 p.m. EDT)*

Commodities Staged in TX

Product	Number Ordered	Arrived - ISB/FSA	En route to State	Released to State
Generators	201	198 (+9)	0 (-9)	0
Meals	26,927,120	9,061,208 (+756,218)	2,885,686 (-149,930)	5,151,531 (-212,373)
Sheeting	8,000	8,064	0	0
Tarps	24,188	22,426	1,560	0
Water (Liters)	42,464,606	13,267,310 (+781,677)	7,214,663 (+2,001,818)	4,517,894 (+16,500)
Blankets	128,002	128,937	0	13,995
Cots	84,861	55,349 (+2,382)	3,864 (-2,382)	13,472
Fuel	600,000	123,480 (+2,000)	4,000 (-2,000)	0
Infants/Toddler Kits	434	324	40 (-8)	20 (-88)
Durable Medical Equipment (reusable)	41	11	3 (+3)	1 (-2)
Consumable Medical Supplies (one-time use)	35	3	2 (+2)	1 (-1)

Commodities Staged in LA

Product	Number Ordered	Arrived - ISB/FSA	En route to State	Released to State
Generators	29	29	0	0
Meals	1,419,000	1,475,076	0	416,124
Tarps	22,000	19,088	0	0
Water (Liters)	2,000,000	2,029,706	0	414,069
Blankets	4,500	5,202	0	0
Cots	2,100	2,160	0	0
Infants/Toddler Kits	10	20 (+20)	0 (-10)	0 (-20)
Durable Medical Equipment (reusable)	1	1 (+1)	0	0 (-1)
Consumable Medical Supplies (one-time use)	1	1 (+1)	0	0 (-1)

(ESF-7 Update, September 4, 2017, 5:00 a.m. EDT)

- ***ESF-8: Public Health and Medical Services***
  - 12 hospitals (7% of total) remain closed: 5 (5%) in Houston, 3 (13%) in Beaumont/Port Arthur, 2 (18%) in Victoria, 2 (11%) in Corpus Christi; 4 hospitals (2%) sheltering in place
  - Of the 102 dialysis centers that closed on August 28, 2017, 81 facilities (79% of total) are open while 21 (21%) remain closed
  - 51 nursing homes remain closed *(ESF-8 Update, September 3, 2017, 11:13 p.m. EDT)*
- ***ESF-9: Search and Rescue (SAR)***
  - Total individuals rescued by Federal responders estimated at over 36,202 individuals and 2,707 pets
    - FEMA Urban Search and Rescue (US&R): Rescued/assisted roughly 6,453 individuals and 237 pets *(ESF-9 Update, September 2, 2017, 11:13 p.m. EDT)*
    - USCG: Rescued or assisted 11,022 survivors and 1,384 pets *(USCG Update,, September 3, 2017, 2:00 p.m. EDT)*

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- DoD/Title 10 and 32: 2,054 rescued *(DoD update, September 3, 2017, 1:54 p.m. EDT)*
- National Guard Bureau (NGB): Rescued 15,313 survivors and 1,057 pets *(NGB update, September 4, 2017, 12:52 a.m. EDT)*
- U.S. Customs and Border Protection (CBP): 1,360 people rescued and 29 pets *(CBP update, September 2, 2017, 2:02 p.m. EDT)*

- ***ESF-10: Oil and Hazardous Materials Response***
  - Efforts related to explosion at the Arkema Chemical Plant in Harris County, TX:
    - Controlled burn initiated September 3; Arkema reported the remaining six containers storing organic peroxide products largely completed burning
    - EPA's Airborne Spectral Photometric Environmental Collection Technology (ASPECT) aircraft continued to performed overflights to monitor chemical levels; unified command continues to monitor air quality and the potential for additional fires in the area *(ESF-10 Update, September 4, 2017, 12:28 a.m. EDT)*
    - 1.5 mile area of evacuation lifted *(Arkema Inc. News Release, September 4, 2017, 2:00 a.m. EDT)*
  - EPA conducted initial assessments of all 41 Superfund sites in impacted area: 28 have no damage, 13 flooded or potentially have other damage:
    - Two have been inspected on the ground and determined they do not require emergency cleanup; however, additional sampling in the area will be conducted
    - 10 have not been accessible by response personnel to investigate possible damage; personnel will assess sites when flood waters recede
    - One site will be inspected on September 4 by boat and EPA dive teams will survey the armored cap underwater when conditions allow *(ESF-10 update, September 4, 2017, 12:28 a.m. EDT)*
  - National Response Center received 259 (+94) oil/hazmat incident reports related to hurricane Harvey. A Unified Command consisting of USCG, EPA, USACE, Civil Support Team (CST), Texas General Land Office, and Texas Commission on Environmental Quality (TCEQ), are coordinating environmental assessments in impacted areas as conditions permit. There are 29 teams, consisting of USCG, EPA, TCEQ, TGLO, CST and contractor personnel, operating in Corpus Christi and Houston to conduct hazard evaluations, oil discharge assessments, and orphan container recovery *(ESF-10 update, September 4, 2017, 12:28 a.m. EDT)*
- ***ESF-11: Agriculture and Natural Resources***
  - Completed 13 of 32 county assessments of stranded, stray, and deceased livestock
  - Completed transport and delivery coordination of 600 pet cages in FEMA's inventory from Louisiana to Texas as of September 4 *(ESF-11 Update, September 4, 2017, 1:04 a.m. EDT)*
- ***ESF-12: Energy***
  - 54 (+5) oil vessels carrying 45.2 million barrels of crude oil positioned near Texas ports awaiting port re-openings *(ESF-12 Update, September 3, 2017, 4:33 p.m. EDT)*
  - Colonial Pipeline anticipates Houston service restoration partially September 4 and fully September 5 *(ESF-12 Update, September 3, 2017, 9:22 a.m. EDT)*
  - Exxon/Mobil in Baytown, TX, commenced controlled shutdown with expected restart on September 14; Valero Refining in Houston, TX, completed controlled shutdown *(USCG, Update, September 3, 2017, 10:52 a.m. EDT)*
- ***ESF-13: Public Safety and Security***
  - Increased to over 700 (+300) Federal Law Enforcement Officers (FLEOs) devoted to the District Disaster Chair (DDC), Houston Police Department, and Texas Department of Public Safety to assist with general law enforcement and public safety work
  - U.S. Marshals Service (USMS) has deputized 280 (+77) Federal agents to support federal law enforcement activities; 93 additional state deputations by local constables to assist Houston Police Department with general law enforcement needs *(ESF-13 Update, September 3, 2017, 6:00 p.m. EDT)*
- ***ESF-15: External Affairs***
  - U.S. Department of Education holding 101 webinar on homeless shelter programs and the process of applying for Public Assistance for local school districts and State Education Agencies (SEA) *(ESF-15 update, September 3, 2017, 10:20 p.m. EDT)*
  - Intergovernmental Affairs

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- Responding to inquiries related to debris removal from homes; informing survivors that removing debris will not disqualify them from receiving federal disaster assistance
- Working to provide a Spanish language operational briefing on September 6 to faith based and community partners associations *(ESF-15 update, September 3, 2017, at 11:02 p.m. ET)*

- Congressional Affairs
  - DR-4332-TX JFO coordinating daily Congressional Briefing conference call for the TX Congressional delegation at 3:00 p.m. EDT *(ESF-15 update, September 3, 2017, 8:34 p.m. ET)*

- ***U.S. Coast Guard (USCG)***
  - Commandant of the Coast Guard visiting Houston/Lake Charles area September 4*(USCG Update, September 3, 2017, 11:39 a.m. EDT)*
- ***U.S. Department of the Interior (DOI)***
  - Department of Interior (DOI) / Office of the Special Trustee for American Indians (OST) working to ensure that benefit checks are successfully received by the 65 Individual Indian Monies (IIM) beneficiaries where flooding may have disrupted mail service and/or displaced beneficiaries *(ESF-15 update, September 3, 2017, at 11:02 p.m. EDT)*
  - United States Geological Survey (USGS) coordinating Interagency Agreement to develop inundation mapping once high water mark and peak streamflow information is collected and processed; expected completion of final agreement week of September 4, once scope of work is known *(DOI Update, September 2, 2017, 11:47 p.m. EDT)*
- ***Department of State (DOS)***
  - Canada donated 27,100 pounds of FEMA-requested hygiene, bedding, and infant-related commodities at Lackland AFB near San Antonio on September 3; FEMA delivered the commodities to the Salvation Army in Houston to distribute to shelters *(DOS Update, September 3, 2017, 11:45 p.m. EDT)*
- ***U.S. Department of Defense (DoD)***
  - US Northern Command (USNORTHCOM)
    - NORTHCOM is closely integrating with Texas' planning efforts to develop a search and rescue drawdown plan while also standing ready to support the Harvey response
    - Total forces employed in the Harvey Joint Operational Area (JOA) is currently 3,018 (+18) (Title 10) *(DoD Update, September 4, 2017, 12:20 a.m. EDT)*
  - Defense Logistics Agency (DLA):
    - Continuing to support shelf-stable meal and bottled water deliveries to TX
  - Civil Air Patrol (CAP):
    - Aerial sorties flown on September 3:
      - Photography – 2 completed, 11 released or in progress, 6 in planning
      - Relocation – 11 completed, 2 released or in progress, 6 in planning
      - Airborne Repeater – 1 completed, 1 in progress
      - Other – 2 completed, 1 released or in progress, 2 in planning *(DoD Update, September 4, 2017, 12:20 a.m. EDT)*
    - CAP also has scheduled 1 aerial photo sortie and 1 support sortie; CAP receiving and planning photo taskings *(DoD email update, September 3, 2017, 2:30 p.m. EDT)*

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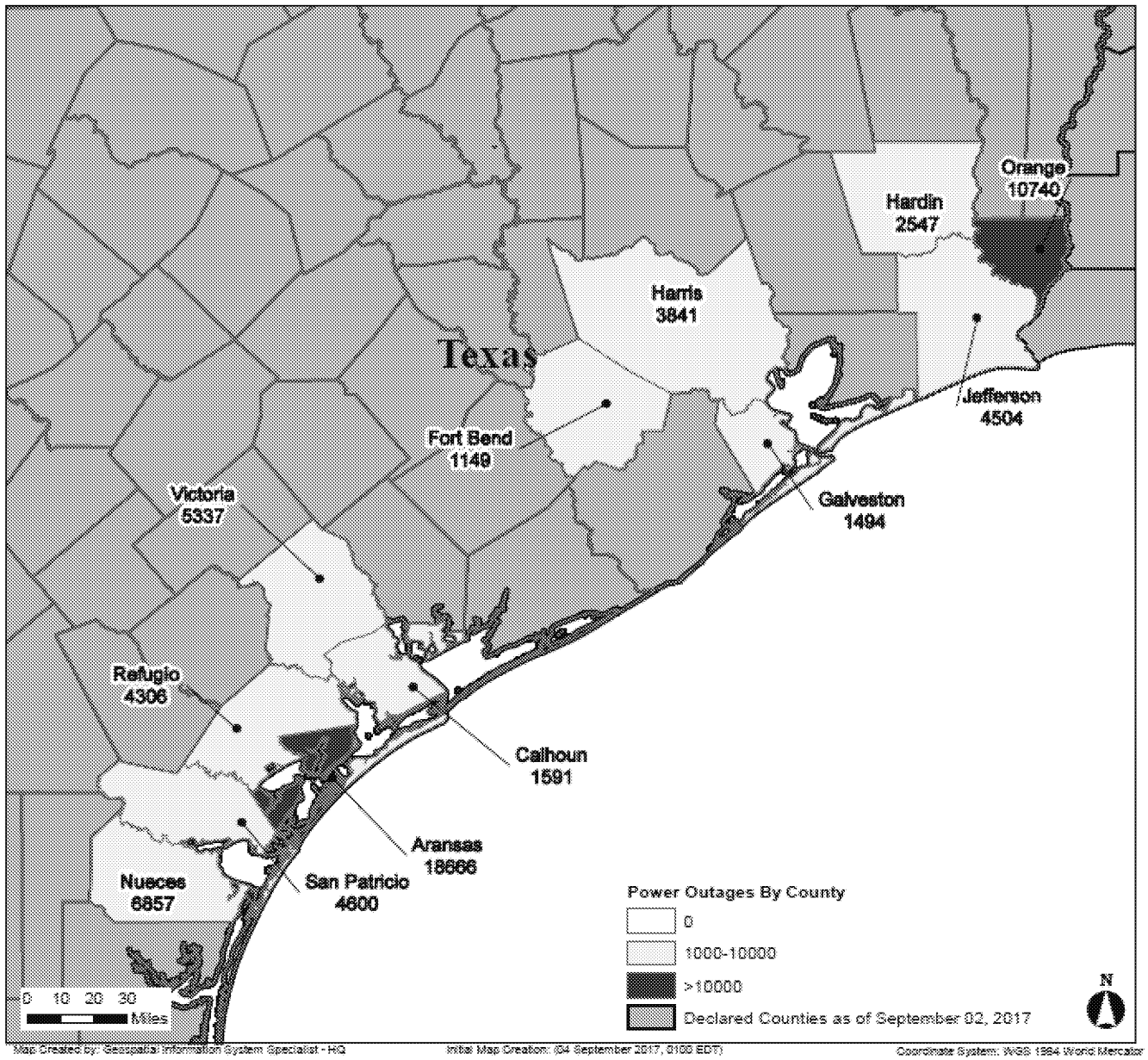
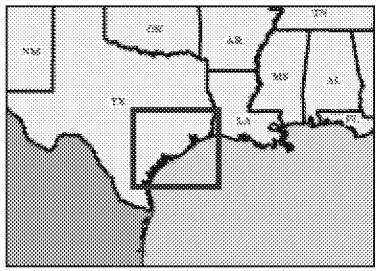
Power Outage Overview: (04 September 2017, 0100 EDT)

FEMA-4332-DR-TX





Data Layer/Map Desciption:

This map displays current power outages for customers in Texas and Louisiana by county and parish.

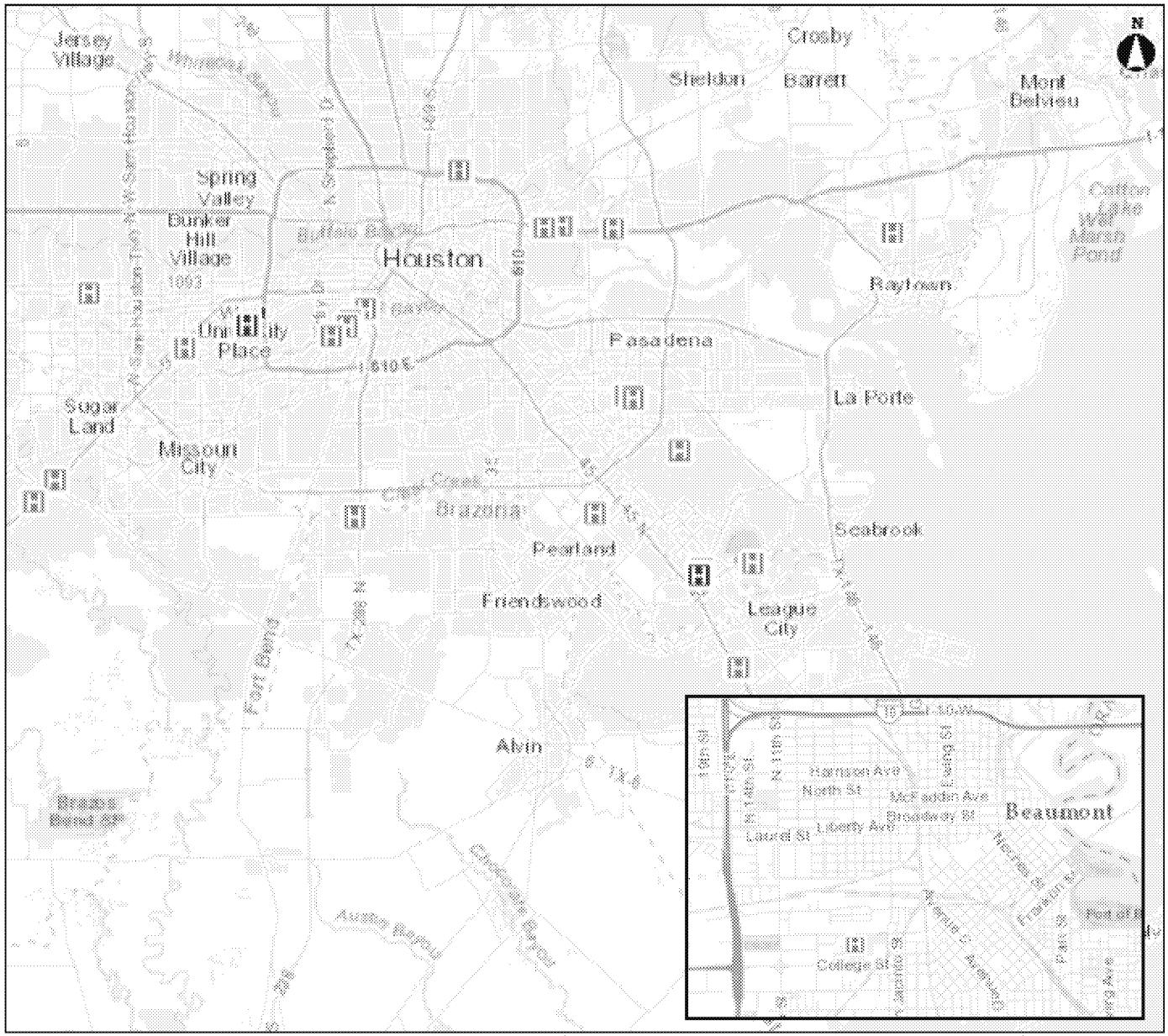
Total Texas Outages:66,839

Texas Counties >1000 Outages	
County	Outages
Aransas	18,666
Orange	10,740
Nueces	6,857
Victoria	5,337
San Patricio	4,600
Jefferson	4,504
Refugio	4,306
Harris	3,841
Hardin	2,547
Calhoun	1,591
Galveston	1,494
Dallas	1,207
Fort Bend	1,149

Data Sources:
FEMA, ESRI, DOE, TX Public Utility

HHS Hospital Feed: (04 September 2017, 0000 EST)

FEMA-4332-DR-TX



Data Layer / Map Description:
Overview of the area affected by the event.

This service shows the status of Healthcare Infrastructure due to impacts of Hurricane Harvey. This is for situational awareness ONLY, not for decision making.

The closed Beaumont hospitals are **Baptist Hospitals of Southeast Texas** and **Saint Elizabeth Hospital**.

- Partial Use
- Re-Opened
- Evacuated
- Closed
- Shelter In Place
- On Generator
- Destroyed
- Unknown

0 4 8 12 Miles

Data Sources:
FEMA, ESRI

Map Created by: XXXX | Initial Map Creation: (04 September 2017, 0000 EDT) | Coordinate System: WGS 1984 World Mercator

Federal Force Laydown Map

(As of September 4, 2017 5:00 a.m. EDT)

OTHER SUPPORT / SERVICES
(Not shown on map)
FEMA: 2409 Responders on the ground. Nat'l EMS Contract Support: 200 ground ambulances, 25 RW, 29 FW aircraft. Surge Capacity Force (243 Denton PMC, 334 Anniston)
ESF-13: 1357 In theater, 275 in transit, 273 Additional Personnel
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, 1,63 (Title 10) personnel, 1638 DoD mission partners.
USACE: 247
USCG: 1035 (including local), 87 National Strike Force, 7 Offshore Cutters (5 underway)
DOT MARAD: 2 ships headed to Texas by 9/13/17
NPPD: CS&C with FAA on UAVs
DNDO: Mobile Radiation Portal Monitors,
GSA: 2 Teams – leasing space and facilities support
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, 8 FW aircraft, 51 boats, 739 personnel
National Guard: 90 aircraft, 17,928 personnel
USGS: 4 High Water Mark Surveys, 11
DOI: 90 boats, 34 UAS on standby

DENTON (Region VI HQ)
FEMA: Personnel 603 Mobilization Center (149 staff, 385 responders), RRCC (FEMA and ESF personnel), NPSC, FEMA Corps 20, MERS Detachment (49 MERS staff)
EPA: 1 Personnel
DOA: 2 APHIS personnel
DOT: 4 Personnel

DALLAS / FORT WORTH
FEMA: Distribution Center, 12 MCOVs (+1 inbound), (staff, FEMA Corps) 93
TSA: 35 NDOs arrived at Houston Hobby (HOU on 9/2/17), 5 K9 teams
HHS: 7 DMAT, 1 Mobilization Team, 4 JPAT
EPA: 41 EPA Personnel, 8 contractors
GSA: 10 staff

COLLEGE STATION (US&R AND ISB)
FEMA: FSARCG, US&R IST, US&R HEPP, MERS Assets, 34 staff
USDA: 4 ESF-4 IMTs
DOI: 6 pilots, 8 boats, and 18 personnel

BEAUMONT/PORT ARTHUR
FEMA: 10 Responders
CBP: 7 helicopters; 3 fixed wing aircraft
USCG: 1 shallow boat team (3 boats), Coast Guard Marine Safety Unit Port Arthur
HHS: 1 DMAT

CAMP BEAUREGARD
FEMA: 25 Responders

BATON ROUGE (LA STATE EOC): 37
FEMA: 1 MERS Assets (12 FEMA staff, R-VI IMAT)
HHS: IRCT-F, 1 DMAT, 4 RDF, 2 FMS teams/caches

AUSTIN (TX State EOC, IOF)
FEMA: 863 (Responders, National IMAT West, 3 Regional IMATs, FEMA Corps), MERS Assets, 3 MCOV
HHS: Full IRCT
CAP: 26 aircraft, 170 personnel
EPA: 12 Personnel and 2 contractor
DOT: 4 personnel
DOA: 4 APHIS personnel, 1 FNS personnel
GSA: 35 staff

NEW ORLEANS
USCG: 3 helicopters, 6 cutters (1 underway/5 moored)

KATY
FEMA: 14 Responders, US&R base of operations with Blue IST, federal search & rescue coordination group, 6 Type 1 TFs, 8 Type 3 TFs, 13 water rescue teams, 7 HEPP
ESF-13: Law Enforcement Responder Camp (100 personnel)

VICTORIA
FEMA: MERS Assets

BEEVILLE
FEMA: 6 MCOV

SAN ANTONIO (Branch, Staging Area)
FEMA: 57 (R-V IMAT, FEMA staff), 2 US&R w/ HEPP (5) and MRP (13)
DOD: FSA at Kelly AFB
HHS: EMTF (1 AMBUS, 1 Type II Staging Site, 2 FOGs, 5 Air Ambulances); 1 TCCT, 1 Ambulance ST
CAP: 150 personnel (Incident Command Post)
ESF-13: Field Support Team 22 personnel

RANDOLPH AFB / SEGUIN, TX
FEMA: ISB, MERS Assets, 2 MCOVs 95 FEMA staff)
DLA: Expeditionary Distribution to manage/ship trailers (Seguin ISB)

CORPUS CHRISTI AREA
FEMA: 2 MCOV, 174 staff
EPA: 16 EPA personnel, 12 contractors
USCG: 1 helicopter, 2 planes, 2 cutters (moored)
NOAA: SSC

HOUSTON/GALVESTON
FEMA: MERS Assets, 10 US&R w/ HEPP, 367 (staff, R-VII IMAT, N-IMAT East 1, and FEMA Corps), 4 US&R TFs (Galveston)
ESF-13: Law Enforcement Responder Camp 150 personnel
TSA: 25 NDOs, 5 canine teams, 2 TSST teams, 6 VIPR Teams (42)
HHS: 5 DMAT, 2 FMS, 1 RDF, 3 MHT
USCG: 5 helicopters and 1 shallow water boat team (3 boats), 5 Cutters (2 underway/3 moored)
NOAA: SSC
EPA: 19 EPA personnel, 11 contractors

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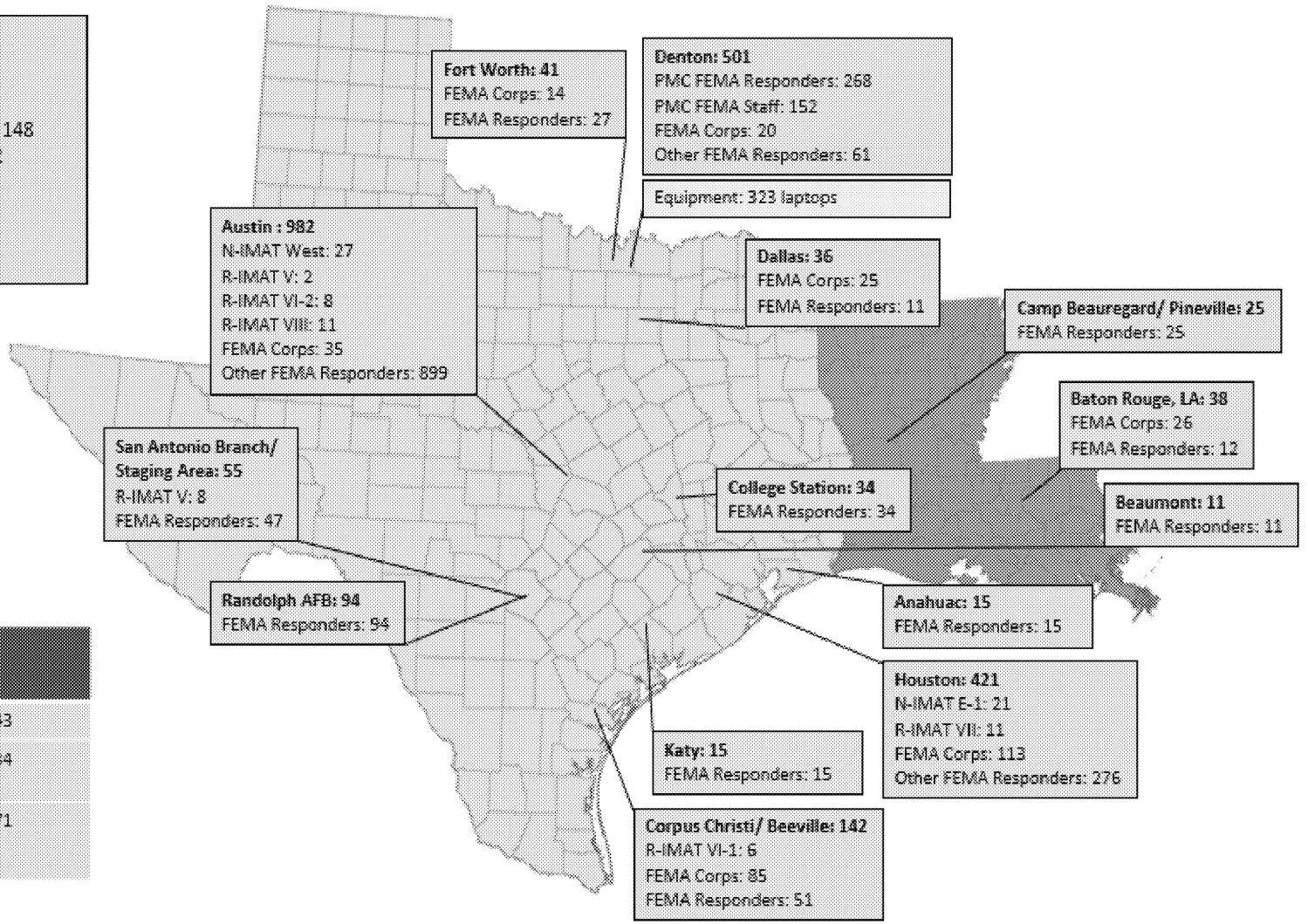
Hurricane Harvey – FEMA Responder Laydown (*As of Sept. 4, 2017 12:25 a.m. EDT)*

Total FEMA Supporting Harvey:

Responders on the Ground: 2409
Other FEMA Staff Supporting : 2143
- CDP supporting SCF mobilization: 148
- EMI supporting AS mobilization: 2
- Other Distribution Centers: 23
- RRCC Staff: 122
- NRCC Staff: 382
- NPSC Staff: 1466



Surge Capacity Force	
Denton/Dallas	243
Anniston, AL – SCF (Wave 2)	334
Anniston, AL – SCF (Wave 3)	371

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Senior Leadership Briefing
Hurricane Irma
Monday, September 4, 2017 (5:00 a.m. EDT)
Updates in Blue

Impact Summary:

- FEMA formed Hurricane Irma Crisis Action Planning (CAP) Team on September 1 to plan for Irma's potential OCONUS and CONUS impact
- CAP Team includes representatives from Regions II, III, IV as well as ESFs, Logistics, interagency partners, and DoD components *(Hurricane Irma Concept of Support, September 3, 2017 10:00 a.m. EDT)*
- **Critical Infrastructure:**
  - Patient Movement: Federal Health Coordinating Official spoke with the Commissioner of Health for the USVI and there are no plans for pre-storm patient movement *(ESF-8 update, September 3, 2017 11:28 p.m. EDT)*
  - Ports: All federal ports in USVI and PR are open; all vessels over 500 tons must depart port by September 5, 2017 or request permission by September 4 to remain in port *(USCG, Update, September 4, 2017, 1:44 a.m. EDT)*
  - GIS team determining critical infrastructure within the inundation zones, evacuation routes, and identifying shelters *(NRCC Irma CAP Team Update, September 3, 2017, 10:00 a.m. EDT)*

Declaration Activity:

- Region II surge in place; no declaration activity at this time
- FCO William L. Vogel deployed to St. Thomas, USVI *(Region II Surge Field Operating Report, September 3, 2017, 2:00 p.m. EDT)*

Federal Force Laydown: (See Federal Force Laydown Map, page 11)

Irma

Department / Agency	Personnel Deployed	Department / Agency	Personnel Deployed
FEMA – Deployed	0	Dept of Agriculture – USFS	1
FEMA – Other Support	0	Dept of Commerce – NOAA	0
FEMA – Urban Search & Rescue	34	Dept of Health and Human Services	17
DHS – CBP	0	Dept of Energy	5
DHS – TSA	0	Dept of Housing and Urban Development	0
DHS – USCG	0	Dept of the Interior – NPS, USGS	0
DHS – NPPD	0	Dept of Justice – ATF, FBI, DEA	0
Dept of Defense – USACE	16	Department of State	0
Dept of Defense – NGB	0	Environmental Protection Agency	1
Dept of Defense – CAP	0	Small Business Administration	0
Dept of Defense – Title 10	0	General Services Administration	0
		Total	**74**

(RSS Update, September 4, 2017, 1:56 p.m. EDT)

FEMA Headquarters:

- USAR Task Force and incident support team (IST) alerted
- Type 4 planning and response team (PRT) ordered from USACE; concept of support for PR/USVI or CONUS strike developed and in place
- **Federal Insurance and Mitigation Administration**
  - Flood insurance in the projected path of Hurricane Irma:
    - PR has 4,713 Contracts in Force (CIF), 6,079 Policies in Force (PIF);
    - USVI has 1,026 CIF, 1,418 PIF *(FIMA Update, September 3, 2017, 12:34 a.m. EDT)*

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FEMA Region II:

- RRCC at Level II Full (24/7), September 3 at 8:00 a.m. EDT *(FEMA Region II planning call, September 4, 2017, 2:00 a.m. EDT)*
- IMAT-A and IMAT-B deploying to USVI EOC; IMAT-C to PR *(Region II Daily Situational Awareness Report, September 2, 2017, 3:00 p.m.)*
- Staff from the FEMA Caribbean Area Division in PR to provide support to commonwealth and local officials
- 15 PDA teams on standby; 6 more pre-identified *(FEMA Region II planning call, September 4, 2017, 2:00 a.m. EDT)*
- Region X IMAT deployed to San Juan, PR
- **U.S. Virgin Islands**: EOC will go to a partial activation September 4 *(Region II Update, September 4, 2017, 4:30 a.m. EDT)*

Interagency Coordination/Response:

- ***ESF-1: Transportation***
  - All PR and USVI ports are open *(ESF-1 Update, September 4, 2017, 1:44 a.m. EDT)*
- ***ESF-3: Public Works and Engineering***
  - United States Army Corps of Engineers (USACE) Emergency Power Planning and Response Team deployed to USVI and PR on September 3 *(ESF-3 Update, September 3, 2017, 9:53 p.m.) EDT)*
- ***ESF-5: Information and Planning***
  - Amphibious Readiness Group (ARG) is off shore, includes two ships and approximately 2,000 U.S. Marines capable of humanitarian assistance; ARG can be in place 12 hours after the Mission Assignment approval *(NOAA Update September 4, 2017, 2:02 a.m. EDT)*
  - A hurricane plane is on standby in Barbados to take pictures of Irma; a second hurricane plane is scheduled to arrive in Barbados on September 4 *(NOAA Update, September 4, 2017, 2:02 a.m. EDT)*
- ***ESF-7: Logistics Management and Resource Support***
  - Initiating actions to submit Mission Assignment requests to Defense Logistics Agency for the following:
    - Deployment of a Distribution Expeditionary Package in support of Incident Support Base commodity staging operations;
    - Gasoline and diesel fuel staging at Warner Robbins Air Force Base; and
    - Establish support services at Marine Corp Support Facility at Blunt Island for shipping commodities to USVI
  - Preparing to stage 2 million liters of water and 2 million meals per staged trailers at FEMA's Mobile Housing Unit staging area in Selma, AL *(ESF-7 Update, September 4, 2017, 2:37 a.m. EDT)*
  - Projected actions are to establish an Incident Support Base in continental United States and to have deployed personnel on site and ready to respond *(Irma CAP Team Concept of Support, September 3, 2017, 1:44 p.m. EDT)*
- ***ESF-8: Public Health and Medical Services***
  - 17 Federal responders activated to Hurricane Irma to include Federal Health Coordinating Officials and Liaison Officers
  - HHS Emergency Management Group activated to Level II (Partial Activation); forward deploying one Incident Response Coordination Team-Forward (IRCT-F) and one Disaster Medical Assistance Teams (DMAT) to San Juan, PR *(ESF-8 Update, September 4, 2017, 1:02 a.m. EDT)*
- ***ESF-9: Search and Rescue***
  - US Coast Guard (USCG) is making plans for Hurricane Irma's impact to the USVI and PR; initial plans include evacuation of dependents from St. Croix and St. Thomas U.S.V.I. and re-positioning of USCG assets for a rapid response after impact/landfall in accordance with the USCG regional Hurricane Plan *(ESF-9 Update, September 3, 2017, 11:06 a.m. EDT)*
  - USCG to stand up an Incident Management Team on September 4 *(USCG Update, September 4, 2017, 1:46 a.m. EDT)*
  - Urban Search and Rescue teams are being activated in response to Hurricane Irma *(ESF-9 update, September 3, 2017, 7:02 p.m. EDT)*
- ***ESF-10: Oil and Hazardous Materials Response***

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- EPA monitoring the potential impacts of Irma on the USVI and PR to prepare for response to impacted locations; staffing and communication plans being developed including coordination with the region for potential deployment of personnel *(ESF-10 Update, September 4, 2017, 12:40 a.m. EDT)*

- ***ESF-11 Agriculture and Natural Resources***
  - Food Nutrition Service (FNS) prepared to fulfill requests for 7 infant formula and toddler food items in Commonly Used Shelter Items List 96 hours after PDD in PR or USVI
  - FNS collecting current USDA Food inventories for potential deployment to local disaster feeding organizations
  - Began assessing potential needs for animal sheltering support/resources in the USVI *(ESF-11 update, September 3, 2017, 1:17 a.m.)*
- ***ESF-12: Energy***
  - Counting available fuel stocks in St. Thomas and St. Croix, USVI, and PR to inform need and mutual aid plan; estimated completion date September 4 *(ESF-12 Update, September 3, 2017, 9:32 p.m. EDT)*
- ***ESF-15: External Affairs (EA)***
  - Providing situational awareness and sharing information on FEMA actions with Governors offices and Tribes in potentially impacted areas *(ESF-15 update, September 3, 2017, 11:02 p.m. EDT)*
- ***U.S. Coast Guard (USCG)***
  - USCG right-sizing aircraft, boat, and personnel footprint in TX in preparation for expected response to Hurricane Irma; focus is on a systematic redeployment of assets and personnel to PR and USVI, followed by East Coast areas as Irma's path dictates
  - USCG repositioned 2 C-130 aircraft in PR in preparation for potential evacuation of members and dependents from USVI and Great Inagua, Bahamas on September 4 *(USCG Update, September 4, 2017, 2:05 a.m. EDT)*
- ***U.S. Department of Defense (DoD)***
  - US Northern Command (USNORTHCOM):
    - Secretary of Defense gave verbal approval of the mission assignment for Maritime Platforms to Support Disaster Operations for Hurricane Irma on September 3 *(DoD Email Update, September 3, 2017, 8:52 p.m. EDT)*
    - Deploying NORTHCOM planners to FEMA Headquarters to support Region II Hurricane Irma planning efforts
    - Working with TRANSCOM to provide Strategic Lift assets to transport FEMA Urban Search and Rescue, Task Force -Virginia to PR prior to Irma landfall *(DoD Update, September 4, 2017, 12:14 a.m. EDT)*
  - Defense Logistics Agency (DLA):
    - Received MA for DLA Distribution Expeditionary Package in support of Hurricane Irma relief efforts, deploying no later than September 7 *(DoD Update, September 4, 2017, 12:14 a.m. EDT)*
  - Civil Air Patrol (CAP):
    - The PR Wing Group CAP is prepared to respond to requests for assistance *(DoD email update, September 3, 2017, 2:30 p.m. EDT)*
- ***National Guard Bureau (NGB)***
  - Four person Joint Enabling Team reporting to USVI and PR to support State EOC, expected arrival by September 6 *(NGB Update, September 4, 2017, 12:50 a.m. EDT)*

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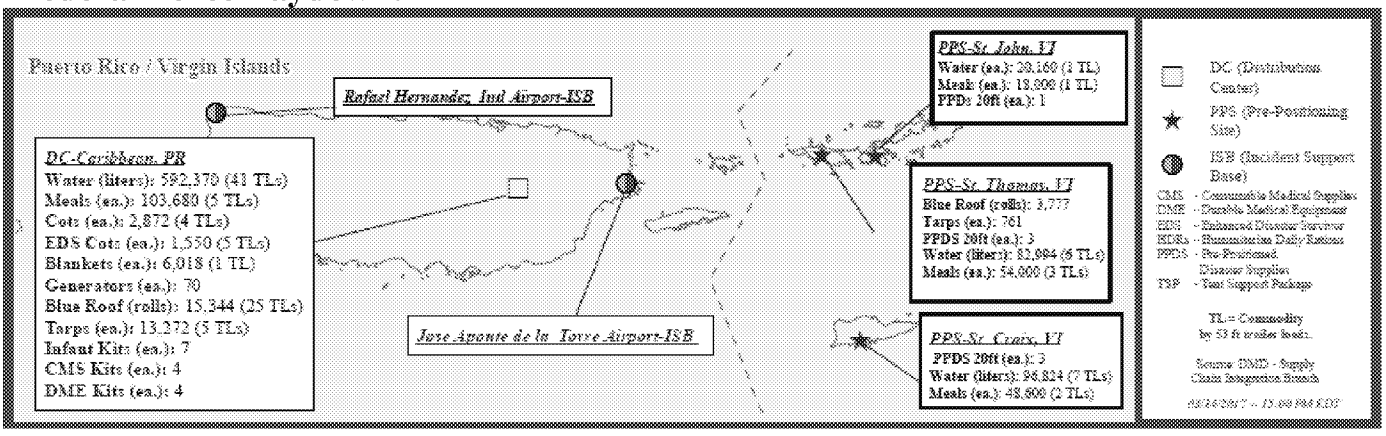
Federal Force Laydown:



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