

Preparedness Update

Helping to prepare the Texas emergency management community

August 2018

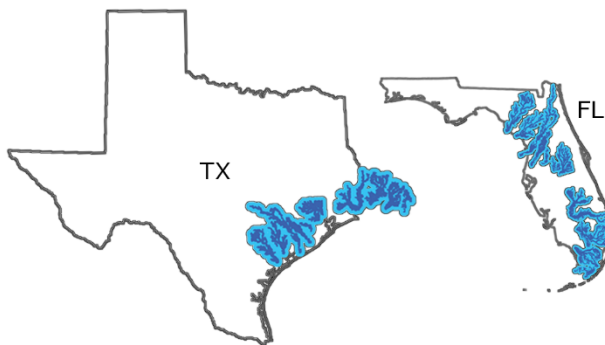
The *Preparedness Update* alerts the Texas emergency management community to planning, training and exercise opportunities while providing updates on Texas Division of Emergency Management (TDEM) preparedness initiatives and activities. For more information, or to receive the *Preparedness Update*, contact [Bill Wahlgren](#).

Hurricane Harvey by the Numbers

When describing Hurricane Harvey, one word comes up again and again: unprecedented. The 1,000-year event produced more rainfall, over a larger area, than any other tropical system in U.S. history. Harvey maintained hurricane strength for two days after it made landfall and lingered over the state for nearly a week. Rainfall of 19+ inches drenched an area nearly the

How Does Harvey Measure Up?

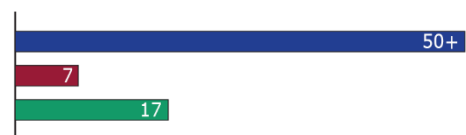
Flood Extent Comparison¹



Hurricane Category at Landfall⁴



Rainfall in inches⁵



HARVEY PRODUCED THE MOST RAINFALL OF ANY TROPICAL SYSTEM IN U.S. HISTORY.²

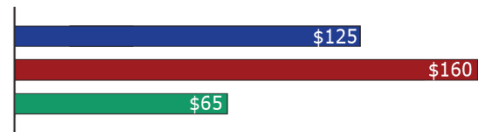
Rainfall Comparison³

An area the size of Maryland received at least 30 inches of rain.



At least 20 inches of rain fell on an area nearly the size of South Carolina.

Estimated Cost in billions⁶



U.S. Deaths⁷



¹FEMA ²National Hurricane Center (NHC) ³University of Wisconsin Space Science and Engineering Center

⁴⁻⁷National Oceanic and Atmospheric Administration (NOAA)

Graphic: PNM

size of South Carolina. An area the size of Rhode Island received 45+ inches of rain, with local concentrations of nearly 50 inches. August 26 and 27 were two of Houston’s wettest five days ever, totaling two feet of rain in just two days. Major flooding occurred in virtually every southeast Texas watershed, creating a flood-impacted area nearly the size of New England. And while hurricanes Sandy and Katrina were much larger in diameter, they produced a fraction of Harvey’s rainfall: 17 inches and seven inches, respectively. Of course, Harvey’s impact on Texas citizens and property was immense. An estimated 16,581,690 people were affected by the storm, which included 1,397,796 people who were evacuated, 35,424 rescued and 42,399 people who stayed in shelters. Harvey’s death toll stands at 106, less than Katrina’s 1,833 and Sandy’s 157 U.S. death tolls. On August 27, 2017, the National Weather Service tweeted, “This event is unprecedented & all impacts are unknown & beyond anything experienced.” All hurricanes are different and have varying outcomes, but one thing remains constant: be ready. For more information or to comment, contact [Chuck Phinney](#).

Exercise Program Spotlight

Submitting Hurricane Harvey After-Action Reports

In an ongoing effort to continuously improve Texas’ disaster preparedness, response, recovery and mitigation efforts, the Texas Division of Emergency Management seeks local jurisdiction and state agency after-action reports (AAR) from Hurricane Harvey. We will use these reports to develop a comprehensive, state-level Hurricane Harvey AAR. If we use your information in our report, your information will remain confidential and anonymous. Local jurisdictions and state agencies can upload Hurricane Harvey AARs to <https://tdemstorage.dps.texas.gov/file/sharing/CbVQvHgQQ>. At the prompt, enter password **170021**. If you have difficulty uploading your AAR, contact 512-424-5333 between 8:00 a.m. and 5:00 p.m.

Please continue to email all other AARs to tdem.exercises@dps.texas.gov. We appreciate your support of this statewide AAR. The information you provide is an invaluable source of knowledge for TDEM as Texas recovers and learns from this historic incident.

Featured exercise for August

Date	Sponsor	Name/Type	Description	Location
August 26 - 29	Army North	CBRN Enterprise Exercise Full-Scale	Hazardous materials response	San Antonio, Region 6

Local and Regional Plans Spotlight

If your jurisdiction wishes to withdraw from an interjurisdictional emergency management (EM) program, the Local and Regional Plans Unit (LRPU) can help you. As a best practice, first contact LRPU to set up a local visit so we can work with you to establish your own EM program. After that, you will need to draft a written notice of intent to withdraw from the interjurisdictional EM program. Complete attachments 1 - 3 of the [TDEM-10](#), have them signed by the mayor or county judge, and submit to LRPU and all signatories to the original agreement. You will also need to complete the TDEM-147 form, which formally notifies TDEM

of your jurisdiction's EM points-of-contact and send it to the LRPV planner assigned to your jurisdiction and the [State Operations Center](#). For more information, contact [Mario Chapa](#).

Local and Regional Plans Review

In June, the unit reviewed **139** plan documents.

Hazards Unit Spotlight

Technological Hazards Unit Planners are working with the Texas Department of Public Safety (DPS), Department of Energy (DOE), and PANTEX to plan the Nuclear Weapons Accident/Incident Exercise 2019 (NUWAIX 19). Every five years the DOE plans a national exercise involving an accident/incident at a DOE facility or while nuclear materials are in DOE custody. DOE will lead the 2019 exercise with Pantex as the host site in Amarillo. The last DOE-led exercise was in 2014 in Grand Junction, Colorado. For more information, contact [Dan Borgeson](#).

State of Texas Emergency Management Plan and Annex Updates

The State of Texas Emergency Management Plan (State Plan), which includes the Basic Plan, all emergency support function (ESF) annexes and hazard annexes, has been posted to the [Preparing Texas](#) website.

Below is a list of each document within the State Plan and its current status. As plans are updated, the State and Federal Plans Unit will replace the old version. For more information, contact [Josh Bryant](#).

State of Texas Emergency Management Plan and Annexes	Revised	Revising?
Basic Plan	2012	Yes
Transportation Annex (ESF 1)	2016	
Communications Annex (ESF 2)	2015	
Public Works and Engineering Annex (ESF 3)	2012	Yes
Firefighting Annex (ESF 4)	2014	
Emergency Management Annex (ESF 5)	2012	Yes
Mass Care Annex (ESF 6)	2014	
Logistics Mgmt. and Resource Support Annex (ESF 7)	2016	
Public Health and Medical Annex (ESF 8)	2015	
Search and Rescue Annex (ESF 9)	2016	
Oil and Hazardous Materials Response Annex (ESF 10)	2013	Yes
Agriculture and Natural Resources Annex (ESF 11)	2012	Yes
Energy Annex (ESF 12)	2017	
Public Safety and Security Annex (ESF 13)	2013	Yes
Recovery Annex (ESF 14)	2013	

Public Information Annex (ESF 15)	2013	Yes
Hurricane Annex	2017	Yes
Drought Annex	2014	
Wildland Fire Annex	2014	
Radiological Incident Annex	2013	
Terrorism Annex	2013	

Preparedness Quiz

Determine whether each statement is *True* or *False* regarding the Post-Katrina Emergency Management Reform Act of 2006 (PKEMRA).

1. Transfers to FEMA various preparedness functions formerly contained within the Stafford Act.
2. Employs the National Incident Management System (NIMS) and the National Response Framework (NRF) as the framework for emergency response and domestic incident management.
3. Directs the development of a National Disaster Recovery Strategy and State Disaster Housing Strategy.
4. Adds protection for household pets and service animals.

1.F 2.T 3.F 4.T

Training Calendar

Note: the dates of the classes listed below are subject to change. Check our website, www.preparingtexas.org, for current dates, locations and new course offerings. Click [here](#) for a map of DPS regions. Click the course code for course descriptions.

Region 1

Code	Course Name	Location	Dates
AWR-122-1	Law Enforcement Prevention and Deterrence of Terrorist Acts (Train the Trainer)	Fort Worth	10/30 - 10/31
AWR-136	Essentials of Community Cyber Security	Garland	09/26
E/L/G-428	Community Emergency Response Team Train the Trainer	Arlington	10/09 - 10/11
G-200	Texas Public Officials Workshop	Granbury	09/06
G-202	Debris Management	Weatherford	08/06 - 08/09
G-235A	Advanced Emergency Planning	Dallas	08/08 - 08/09
G-290/ G289/G291	Basic Public Information Officer Course(G290)/Public Information Officer	Dallas	09/12 - 09/14

	Awareness Course(G289)/JIS/JIC Planning for Tribal, State, and Local PIOs(G291)		
G-300	Intermediate Incident Command System for Expanding Incidents	Flower Mound	08/20 - 08/22
G-300	Intermediate Incident Command System for Expanding Incidents	Southlake	10/01 - 10/03
G-317	Community Emergency Response Team (CERT) Course	Eules	07/26 - 09/13
G-317	Community Emergency Response Team (CERT) Course	Fort Worth	07/31 - 08/23
G-317	Community Emergency Response Team (CERT) Course	Fort Worth	09/01 - 09/22
G-318	Local Mitigation Planning Workshop	Dallas	10/10 - 10/11
G-400	Advanced Incident Command System, Command and General Staff	Flower Mound	08/22 - 08/23
G-400	Advanced Incident Command System, Command and General Staff	Southlake	10/03 - 10/04
G-775	EOC Management and Operations	Grapevine	09/20 - 09/21
H-204	HazMat First Responder Awareness/Operations	Fort Worth	08/04 - 08/05
H-204	HazMat First Responder Awareness/Operations	Santo	08/11 - 08/12
H-302	HazMat Refresher Training	Lewisville	10/23
H-302	HazMat Refresher Training	Lewisville	10/24
H-302	HazMat Refresher Training	Lewisville	10/25
H-501	NFPA 472 HazMat Technician - Pro-Board Certification	Tyler	08/13 - 08/17
H-501	NFPA 472 HazMat Technician - Pro-Board Certification	Santo	08/20 - 08/24
MGT-384	Community Preparedness for Cyber Incidents	Garland	09/26 - 09/27
PER-213	Wide Area Search	Fort Worth	10/19 - 10/21
PER-275	Law Enforcement Active Shooter Emergency Response (LASER)	Texarkana	08/06 - 08/08
T-600.a	Disaster Accounting 101 (Module 1)	Winnsboro	09/26
T-600.e	Disaster Accounting 101 (Module 5)	Athens	08/06

Region 2

Code	Course Name	Location	Dates
AWR-147	Rail Car Incident Response	Jasper	09/08
AWR-147	Rail Car Incident Response	Houston	09/10

E/L-969	NIMS ICS All-Hazards Type III Communications Unit Leader (COML)	Houston	10/02 – 10/04
ENV - 501	Hazardous Materials Instructor	Houston	09/11 – 09/14
G-290/ G289/G291	Basic Public Information Officer Course(G290)/Public Information Officer Awareness Course(G289)/JIS/JIC Planning for Tribal, State, and Local PIOs(G291)	Spring	08/14 – 08/16
G-300	Intermediate Incident Command System for Expanding Incidents	Livingston	08/14 – 08/15
G-300	Intermediate Incident Command System for Expanding Incidents	Livingston	08/15 – 08/16
G-400	Advanced Incident Command System, Command and General Staff	Livingston	08/16 – 08/17
G-400	Advanced Incident Command System, Command and General Staff	Livingston	08/17 – 08/18
H-100	HazMat Awareness	Orange	08/28
H-501	NFPA 472 HazMat Technician - Pro-Board Certification	League City	10/01 – 10/05
H-504	NFPA 1006 2008 Edition Trench Rescue Levels I and II Pro-Board Certification	Willis	09/04 – 09/07
L-548	Continuity of Operations Planning (COOP) Program Manager Train-the-Trainer Course	Dickinson	08/27 - 08/18
L-550	Continuity of Operations Planning (COOP) Train-the-Trainer	Dickinson	08/29 – 08/31
MGT-315	Critical Asset Risk Management	Conroe	08/21 – 08/22
MGT-315	Critical Asset Risk Management	Grand Prairie	10/08 – 10/09
MGT-342	Strategic Overview of Disaster Management for Water and Wastewater	Houston	09/12
MGT-383	Emergency Operations Plans for Rural Communities	La Porte	08/15
MGT-414	Advanced Critical Infrastructure Protection	Conroe	08/23
MGT-414	Advanced Critical Infrastructure Protection	Grand Prairie	10/10
MGT-457	On-Scene Crisis Leadership and Decision Making Course	Orange	08/24
MGT-458	Building Whole Community Engagement Course	Orange	08/23
PER-211	Medical Management of Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) Events	Bryan	08/06 - 08/08

Region 3

Code	Course Name	Location	Dates
AWR-213	Critical Infrastructure Key Resources Awareness Course	Laredo	08/01
G-200	Texas Public Officials Workshop	Del Rio	10/17
G-300	Intermediate Incident Command System for Expanding Incidents	Laredo	07/31 – 08/02
G-317 (Spanish)	Curso de Equipo Comunitario de Respuesta a Emergencias (CERT)	Laredo	08/04 – 08/18
G-400	Advanced Incident Command System, Command and General Staff	Corpus Christi	08/01 – 08/02
G-400	Advanced Incident Command System, Command and General Staff	Laredo	08/02 - 08/03
G-628	Infrastructure Damage Assessment	San Benito	08/03
H-301	HazMat Emergency Response Technician	Laredo	08/06 – 08/10
H-401	HazMat Incident Command System	Mission	10/03 – 10/04
H-405	Air Monitoring for Hazardous Materials	Laredo	08/16 - 08/17
L-146	INDIRECT DELIVERY - Homeland Security Exercise and Evaluation Program (HSEEP) Basic Course	Harlingen	08/23 – 08/24
L-550	Continuity of Operations Planning (COOP) Train-the-Trainer	Zapata	08/01 – 08/03
MGT-310	Jurisdictional Threat and Hazard Identification and Risk Assessment	Robstown	10/10 - 10/11
MGT-319	Medical Countermeasures: Points of Dispensing (POD), Planning and Response	McAllen	09/06 - 09/07
MGT-346	Emergency Operation Center (EOC) Operations for All-Hazards Events	Roma	10/30 - 11/01
MGT-414	Advanced Critical Infrastructure Protection	Laredo	08/02
PER-211	Medical Management of Chemical, Biological, Radiological, Nuclear, and Explosive (CBRNE) Events	Brownsville	08/20 - 08/21
PER-320	Personal Protective Measures for Biological Events	Corpus Christi	09/14
PER-334	Search and Rescue in Community Disasters	Laredo	09/28 - 09/29
PER-356	Tactical Emergency Casualty Care (TECC) for First Care Providers	Pharr	08/06
PER-357	Tactical Emergency Casualty Care (TECC) for Law Enforcement	Pharr	08/08

PER-358	Tactical Emergency Casualty Care (TECC) for Fire/EMS	Pharr	08/07
PER-359	Tactical Emergency Casualty Care (TECC) for First Receivers	Pharr	08/06
PER-360	Tactical Emergency Casualty Care First Responder Active Shooter/Killing Incidents	Pharr	08/09
PER-361	Tactical Emergency Casualty Care First Responder Integration Active Shooter/Killing Incidents Rescue Task Force	Pharr	08/09
PER-371	Cybersecurity Incident Response for IT Personnel	McAllen	08/22 - 08/24
TX-001-RMS	Preliminary Damage Assessment	San Benito	08/03

Region 4

Code	Course Name	Location	Dates
G-141	Instructional Presentation and Evaluation Skills	El Paso	08/07 – 08/09
G-205	Recovery From Disaster: The Local Government Role	El Paso	09/11 – 09/12
G-449	Incident Command System (ICS) Curricula (Train-the-Trainer)	El Paso	10/08 – 10/12
H-501	NFPA 472 HazMat Technician - Pro-Board Certification	Midland	08/20 – 08/24
H-512	NFPA 472 HazMat First Responder Operations, Pro-Board Certification	El Paso	08/11 - 08/12
MGT-317	Disaster Management for Public Services	Odessa	09/27 – 09/28
MGT-346	Emergency Operation Center (EOC) Operations for All-Hazards Events	El Paso	10/16 – 10/18
MGT-348	Medical Preparedness and Response to Bombing Incidents	El Paso	09/18 – 09/19
MGT-439	Pediatric Disaster Response and Emergency Preparedness	Odessa	09/04 – 09/05
T-517	CERT Master Instructor Course	El Paso	10/31 – 11/02

Region 5

Code	Course Name	Location	Dates
E/L-969	NIMS ICS All-Hazards Type III Communications Unit Leader (COML)	Amarillo	09/05 – 09/07
G-202	Debris Management	Lubbock	10/02 – 10/05
G-205	Recovery From Disaster: The Local Government Role	Wichita Falls	09/25 – 09/26
G-235A	Advanced Emergency Planning	Wichita Falls	10/09 – 10/10
G-290/ G289/G291	Basic Public Information Officer Course(G290)/Public Information Officer Awareness Course(G289)/JIS/JIC Planning for Tribal, State, and Local PIOs(G291)	Wichita Falls	08/14 – 08/16
G-300	Intermediate Incident Command System for Expanding Incidents	Lubbock	07/31 – 08/01
G-300	Intermediate Incident Command System for Expanding Incidents	Amarillo	08/14 – 08/16
G-400	Advanced Incident Command System, Command and General Staff	Amarillo	08/16 – 08/17
G-400	Advanced Incident Command System, Command and General Staff	Lubbock	08/20 – 08/21
G-557	Rapid Needs Assessment	Wichita Falls	10/24
H-503	NFPA 1006 2013 Edition Confined Space Rescue Levels I and II Training (Pro-Board Certificates)	Lefors	09/11 – 09/14
MGT-319	Medical Countermeasures: Points of Dispensing (POD), Planning and Response	Lake Brownwood	09/19 – 09/20
MGT-345	Disaster Management for Electric Power Systems	Wichita Falls	08/07 – 08/08
PER-320	Personal Protective Measures for Biological Events	Brownwood	08/21
PER-320	Personal Protective Measures for Biological Events	Lake Brownwood	08/23

Region 6

Code	Course Name	Location	Dates
AWR-147	Rail Car Incident Response	Cibolo	09/06
AWR-213	Critical Infrastructure Key Resources Awareness Course	Austin	10/10

AWR-302	Pipeline Security in Rural Communities	Lockhart	08/18
E/L-102	Science of Disaster	Austin	09/10 – 09/12
E/L-103	Planning: Emergency Operations	Austin	09/13 – 09/14
G-200	Texas Public Officials Workshop	Georgetown	08/03
G-200	Texas Public Officials Workshop	Kerrville	08/30
G-200	Texas Public Officials Workshop	Austin	10/19
G-288	Donations Management Course	Schertz	08/13 – 08/14
G-288	Donations Management Course	Victoria	09/26 – 09/27
G-288	Donations Management Course	Austin	10/08 – 10/09
G-290	Basic Public Information Officer	Canyon Lake	10/23 – 10/24
G-290/ G289/G291	Basic Public Information Officer Course(G290)/Public Information Officer Awareness Course(G289)/JIS/JIC Planning for Tribal, State, and Local PIOs(G291)	New Braunfels	10/23 – 10/25
G-300	Intermediate Incident Command System for Expanding Incidents	Buda	07/30 – 08/01
G-300	Intermediate Incident Command System for Expanding Incidents	Round Rock	08/28 – 08/29
G-300	Intermediate Incident Command System for Expanding Incidents	Cuero	09/18 – 09/27
G-317	Community Emergency Response Team (CERT) Course	Del Valle	08/13 – 09/01
G-364	Multi-Hazard Emergency Planning for Schools	Georgetown	08/01 – 08/02
G-400	Advanced Incident Command System, Command and General Staff	Buda	08/02 – 08/03
G-400	Advanced Incident Command System, Command and General Staff	San Antonio	08/15 – 08/16
G-400	Advanced Incident Command System, Command and General Staff	Austin	08/27 – 08/28
G-400	Advanced Incident Command System, Command and General Staff	Round Rock	08/30 – 08/31
G-400	Advanced Incident Command System, Command and General Staff	Cuero	10/23 – 10/30
G-489	Management of Spontaneous Volunteers in Disasters	Victoria	08/01

G-489	Management of Spontaneous Volunteers in Disasters	Austin	10/10
H-100	HazMat Awareness	Austin	09/11
H-200	HazMat First Responder Operations	Austin	09/12 – 09/13
H-302	HazMat Refresher Training	Temple	09/25
H-302	HazMat Refresher Training	Temple	09/26
H-502	NFPA 472 Incident Command, Pro-Board Certification	Austin	10/03 – 10/04
MGT-310	Jurisdictional Threat and Hazard Identification and Risk Assessment	Austin	10/11 – 10/12
MGT-343	Disaster Management for Water and Wastewater Utilities	New Braunfels	08/28 – 08/29
MGT-345	Disaster Management for Electric Power Systems	Canyon Lake	09/19 – 09/20
MGT-348	Medical Preparedness and Response to Bombing Incidents	Belton	08/06 – 08/07
MGT-404	Sports / Special Events Incident Management	San Antonio	09/05 – 09-06
MGT-458	Building Whole Community Engagement Course	Victoria	08/20

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Texas Division of Emergency Management, Preparedness Section, 1033 La Posada Dr., Austin, Texas 78752. The information herein is not intended to be prescriptive, nor does it carry the weight of law, rule or policy. To unsubscribe, send an email to Bill.Wahlgren with "unsubscribe" in subject line. To find the Preparedness Update online, go to [www.https://preparingtexas.org](https://preparingtexas.org) and click "Preparedness Update" in the navigation bar.