

Flood Mitigation Task Force:

Flood Safety Outreach Update

Scott Prinsen & Matt Porcher | 6.7.2017

Drainage Infrastructure and Flood Mitigation Committee



“ Texas is a land of perennial drought,
broken by the occasional
devastating flood.”

State Meteorologist, National Weather Service, 1927

Flood Safety Outreach

- Real-time road closure information
- ATXFloods.com

ATXFloods Current flood information and emergency road closures in Austin and partner communities in Central Texas. Sunny in Central Texas. | 08-27-2015 7:36:25 AM

Home Communities Twitter Contact Links Open Data Alerts Am I in a Floodplain?

Low Water Crossing Status

- open
- closed

ATXFloods Closures

Save yourself! Turn Around, Don't Drown! If there's water over the road, go back and find another route.

It is illegal to drive around barricades at a flooded low water crossing.

15 crossings currently closed (of 1179)
Click a crossing below to zoom in to it.

- Park Ln @ Lake Creek Park
Round Rock, TX
- CR 177
Williamson County
- MONTELL RD [CR 339] E OF

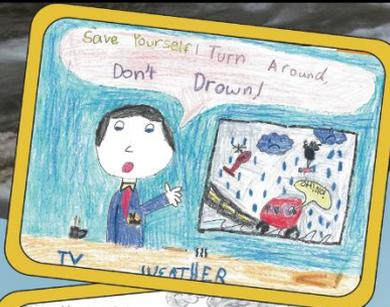
Map data ©2015 Google Terms of Use Report a map error

Flood Safety Poster Contest

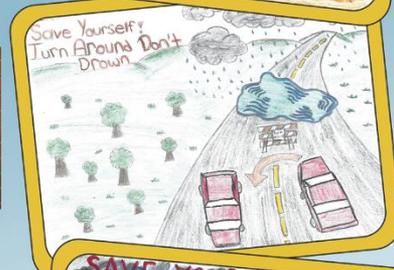
Flood Poster Contest Winners



Charlotte Mahmoud
Grades: 1-2



Vanessa Martinez
Grades: 3-5



Sydney Loera
Grades: 6-8



Flooding Facts

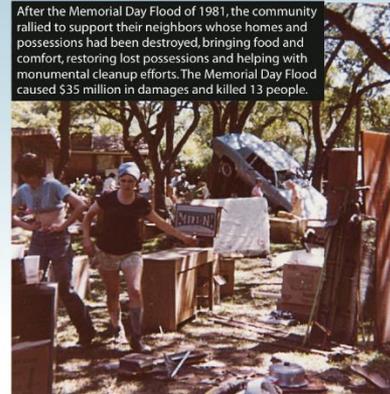
- ★ Texas has the most flood-related deaths in the nation.
- ★ About 75 percent of flood-related deaths happen in vehicles.
- ★ Pedestrians are at risk, too, and some of our most popular trails are subject to flash flooding.
- ★ It doesn't take much moving water to pick up a vehicle and wash it downstream.
- ★ You can't see what's under floodwaters, making even shallow water potentially deadly. The road or bridge may be washed away.
- ★ At night, visibility is greatly decreased, and danger is greatly increased.

Get Ready!

Flash floods strike with little warning. Here are some steps to prepare for any disaster, with a flash flood twist:

- 1) Make a plan. Pick a meeting place, create an evacuation plan and choose an emergency contact in case your family is separated.
- 2) Get a kit. Store a three-day supply of food, water and other necessities.
- 3) Stay informed. Consider buying a NOAA weather radio. During a flood, visit www.atxfloods.com to check for flooded roads.
- 4) Know your neighbors. In an emergency, they can respond faster than anyone else. Also, consider how you could help neighbors who have special needs.

After the Memorial Day Flood of 1981, the community rallied to support their neighbors whose homes and possessions had been destroyed, bringing food and comfort, restoring lost possessions and helping with monumental cleanup efforts. The Memorial Day Flood caused \$35 million in damages and killed 13 people.



**Turn
Around-
Don't
Drown™**

An effort to recover damaged paperwork after the 1981 Memorial Day Flood.



Preparing for a Flood

Free!

- Assess your risk. See the back page for more information.
- Become familiar with your area. Avoid low water crossings, bridges or areas with "Watch for Water" signs during heavy rains.
- If there's time, turn off your electricity at the breaker box if you evacuate.

Cheap

Store documents and photos in a water-tight container up high. You can replace the carpet and drywall, but not your family photos.

Worth the price

Flood insurance is a must for those at high risk of flooding. Just an inch of water can cause \$1,000s of damage. The average Austin policy costs \$660 a year.

Got a pocketful of change?

Contact the City of Austin's Floodplain Office to discuss other measures that you can take, such as raising your AC unit or electrical outlets.

512-974-2843 or floodpro@austintexas.gov

Floodplain Change Notifications



FLOODPLAIN CHANGES

◀ Is Your Home at Risk? ▶



The City of Austin has completed new floodplain studies that indicate revised flood risks for several Austin watersheds, affecting thousands of properties. You are receiving this notice because we believe your property may be affected. Please keep an eye out for a more detailed letter in the next week.

The City restudies creeks to ensure accurate floodplain maps, which help both the City and the public prepare for flooding. The City has already begun using the new studies to regulate development. However, new FEMA maps will not be used for flood insurance purposes until late 2015.

Creeks Studied

- Boggy
- Bull and West Bull
- Carson
- Cottonmouth
- Dry Creek East
- Fort Branch
- Shoal
- Tannehill

PUBLIC MEETINGS

Central Austin

Friday, September 20, 1:00 p.m.
One Texas Center, Room 325
505 Barton Springs Road
Austin, Texas 78704

East Austin

Monday, September 23, 6:30 p.m.
Carver Branch Library
1161 Angelina Street
Austin, Texas 78702

Northwest Austin

Tuesday, September 24, 6:30 p.m.
Northwest Recreation Center
2913 Northland Drive
Austin, Texas 78757

512-974-2843

Para información en español,
llame al 512-974-2843

www.austintexas.gov/floodplainchanges

Flood Safety Outreach

The screenshot shows the KXAN news website. At the top, there is a weather forecast for 84° F with 'Few Clouds'. Below the navigation bar, a large banner advertisement for 'Turn Around Don't Drown' is displayed. The banner includes the text 'SAVE YOURSELF! TURN AROUND, DON'T DROWN! Austin's Roads Flood in a Flash' and a 'LEARN MORE' button. To the left of the banner is the 'City of Austin WATERSHED PROTECTION' logo. Below the banner, there are several news articles, including one about 'VonTrey Clark booked into Bastrop County Jail' and another about 'Ted Cruz rallies for Republican nomination in Fort Worth'. A smaller version of the 'Turn Around Don't Drown' banner is also visible in the bottom right corner of the page.

The screenshot shows the Statesman news website. At the top, there is a weather forecast for 77° F. Below the navigation bar, a large banner advertisement for 'Turn Around Don't Drown' is displayed. The banner includes the text 'Austin Roads Flood in a Flash' and the website 'austinfloods.org'. To the right of the banner is the 'City of Austin WATERSHED PROTECTION' logo. Below the banner, there are several news articles, including one about 'Latest Texas school finance case reaches state Supreme Court' and another about 'Southwest flight diverted after passengers become disorderly'. A smaller version of the 'Turn Around Don't Drown' banner is also visible in the bottom right corner of the page.

Media Outreach
*TV, Radio, Print,
Digital and Social*

Flood Awareness Radio and TV Campaign

English



[2016 Flood Safety
Awareness TV Campaign](#)

Spanish



[2016 Flood Safety
Awareness TV Campaign](#)

Emergency Ads

English



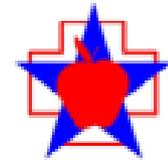
Spanish





AISD Kickoff Meeting | January 2017

Central Texas School Safety Consortium



Austin ISD + Del Valle ISD + Eanes ISD + Elgin ISD + Florence ISD + Georgetown ISD + Hutto ISD +
Jarrell ISD + Lago Vista ISD + Lake Travis ISD + Leander ISD + Liberty Hill ISD + Manor ISD +
Pflugerville ISD + Round Rock ISD + Taylor ISD + Thrall ISD + Texas School for the Deaf +
Texas School for the Blind & Visually Impaired
A partnership in preparedness



Central Texas School Safety Consortium Meeting | January 2017

Flash Flood Flyer



A flash flood is when heavy rain causes a creek to rise and flood quickly. Flash floods can happen in less than **30** minutes of rainfall starting!

- Central Texas gets such heavy rainstorms and floods so often, it is called "Flash Flood Alley."
- The majority of flood-related deaths are caused by people attempting to drive through moving water.
- A low-water crossing is a low spot in the road that crosses a creek and often floods during heavy rain.
- Texas has the most flash flood deaths annually in the United States.

WHAT'S THE DIFFERENCE BETWEEN A FLASH FLOOD WATCH & FLASH FLOOD WARNING?

Flash Flood Watch: *Get ready!* Heavy rains are on the way that could lead to flash flooding. Stay informed by paying attention to the news and be prepared in case the weather gets worse.

Flash Flood Warning: *Watch out!* It's about to flood or is flooding. Stay informed about the weather on your TV, radio, or smart phone. Be aware and follow directions of emergency responders. **Never drive or walk across a flooded roadway.**

FLOODPLAINS AND FLOOD INSURANCE

- Do you live in or near a floodplain? Find out at www.austintexas.gov/FloodPro
- Flood insurance protects you from the financial devastation caused by floods.
- Even a few inches of water can cause thousands of dollars in repair and restoration costs.
- Most homeowners insurance policies **do not** cover floods. You need to buy separate insurance just for flooding, for your home and its contents.
- Visit www.FloodSmart.gov or contact your insurance agent to find out more.

WHAT YOU SHOULD DO...

BEFORE a Flood

- ✓ Make a flood emergency plan for your family. Visit www.ready.gov/floods
- ✓ Sign up for emergency alerts: www.WarnCentralTexas.org
- ✓ Stay informed! You can monitor the weather on TV, radio, or even your smart phone. You can even get a special "weather radio" that tells you when severe weather may be coming to your neighborhood.

DURING a Flood

- ✓ Don't drive through flooded low water crossings. Save Yourself! Turn Around - Don't Drown!
- ✓ Stay away from creeks and drainage ditches. They flood in a flash and can be very dangerous!
- ✓ Check www.ATXfloods.com for a map of flooded roads in Central Texas.

AFTER a Flood

- ✓ Return home only when authorities indicate it is safe.
- ✓ Visit www.ready.gov/floods for more information.

Questions?
Call Austin 3-1-1
Outside of Austin?
Call 512-974-2000



Una inundación repentina es cuando la lluvia intensa causa que un arroyo suba de nivel y cause inundación rápidamente. ¡Las inundaciones repentinas pueden ocurrir dentro de los primeros 30 minutos después de haber empezado la precipitación!

- El centro de Texas recibe tormentas intensas y constantes, por eso se le conoce como el "Callejón de las inundaciones repentinas."
- La mayoría de las muertes durante las inundaciones son causadas cuando la gente maneja o cruza sobre fuertes corrientes de agua.
- Un cruce bajo es un espacio bajo sobre el camino que atraviesa un arroyo y se inunda durante lluvias intensas.
- Texas es el estado con más muertes por inundaciones repentinas por año en los Estados Unidos.

¿CUÁL ES LA DIFERENCIA ENTRE UNA VIGILANCIA Y UN AVISO DE INUNDACIÓN REPENTINA?

Vigilancia de inundación repentina: ¡Prepárese! Lluvias intensas que pudieran causar inundaciones repentinas vienen en camino. Manténgase informado, escuche las noticias, y prepárese en caso de que el clima empeore.

Aviso de inundación repentina: ¡Cuidado! Hay, o esta a punto de suceder una inundación. Infórmese sobre el clima en su TV, radio o teléfono inteligente. Sea cauteloso y siga las instrucciones del personal de emergencia. **Nunca conduzca ni camine sobre un camino inundado.**

ZONAS DE INUNDACIÓN Y SEGUROS CONTRA INUNDACIÓN:

- ¿Sabe si vive dentro, o cerca de una zona de inundación? Obtenga información en www.austintexas.gov/FloodPro
- El seguro contra inundaciones lo protege de desastres financieros causados por las inundaciones.
- Solo unas pulgadas de lluvia pueden causar miles de dólares en costos de reparación y restauración.
- La mayoría de las pólizas de seguro no cubren daños por inundación. Necesita comprar una póliza de seguro contra inundaciones para su hogar y pertenencias por separado.
- Visite www.FloodSmart.gov o comuníquese con su agente de seguros para obtener más información.

LO QUE DEBE HACER...

ANTES de una inundación

- ✓ Haga un plan familiar de emergencia para inundaciones. Visite www.ready.gov/floods
- ✓ Regístrese para recibir alertas de emergencia: www.WarnCentralTexas.org
- ✓ ¡Manténgase informado! Puede monitorear el clima en la TV, radio, o su teléfono inteligente. Incluso puede obtener un "radio meteorológico" especial que le diga cuando el clima severo puede llegar a su vecindario.

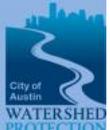
DURANTE una inundación

- ✓ No maneje a través de cruces bajos inundados. ¡Sálvate! ¡Es mejor regresarse que ahogarse!
- ✓ Aléjese de arroyos y drenajes. ¡Se inundan con rapidez y pueden ser peligrosos!
- ✓ Visite www.ATXfloods.com para obtener mapas de carreteras inundadas en el centro de Texas.

DESPUÉS de una inundación

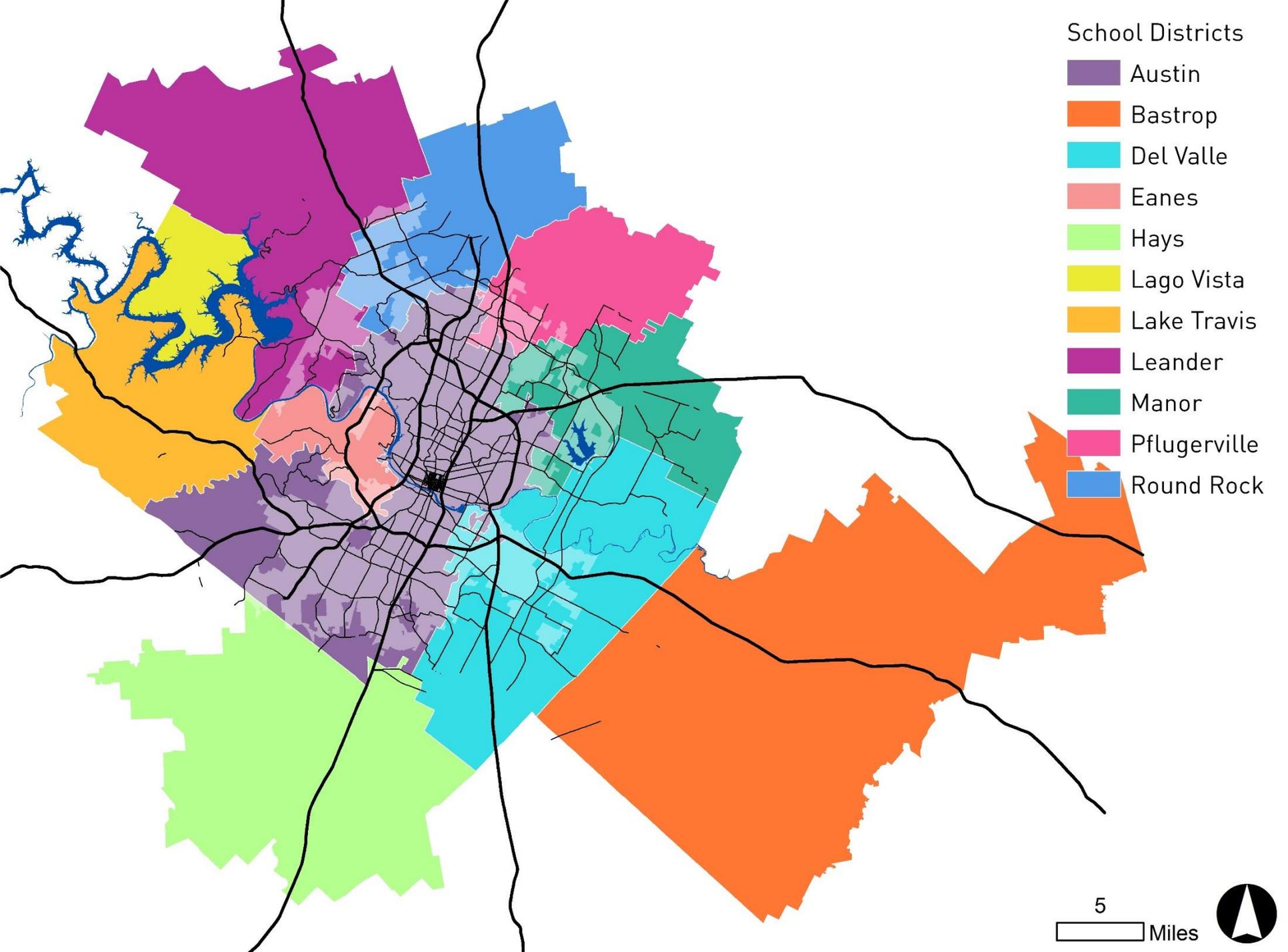
- ✓ Vuelva a casa sólo cuando las autoridades digan que es seguro.
- ✓ Visite www.ready.gov/floods para más información.

¿Dudas?, En Austin, comuníquese al 3-1-1, fuera de Austin al 512-974-2000.



School Districts

- Austin
- Bastrop
- Del Valle
- Eanes
- Hays
- Lago Vista
- Lake Travis
- Leander
- Manor
- Pflugerville
- Round Rock



*Turn Around –
Don't Drown
-
English and
Spanish*





Turn Around – Don't Drown - Vietnamese



Weatherfest 2017



TEEN CERT #NatlPrep
COMMUNITY EMERGENCY RESPONSE TEAM

Teen Community Emergency Response Team



Science Night at Fulmore Middle School



Turn Around – Don't Drown Poster Contest



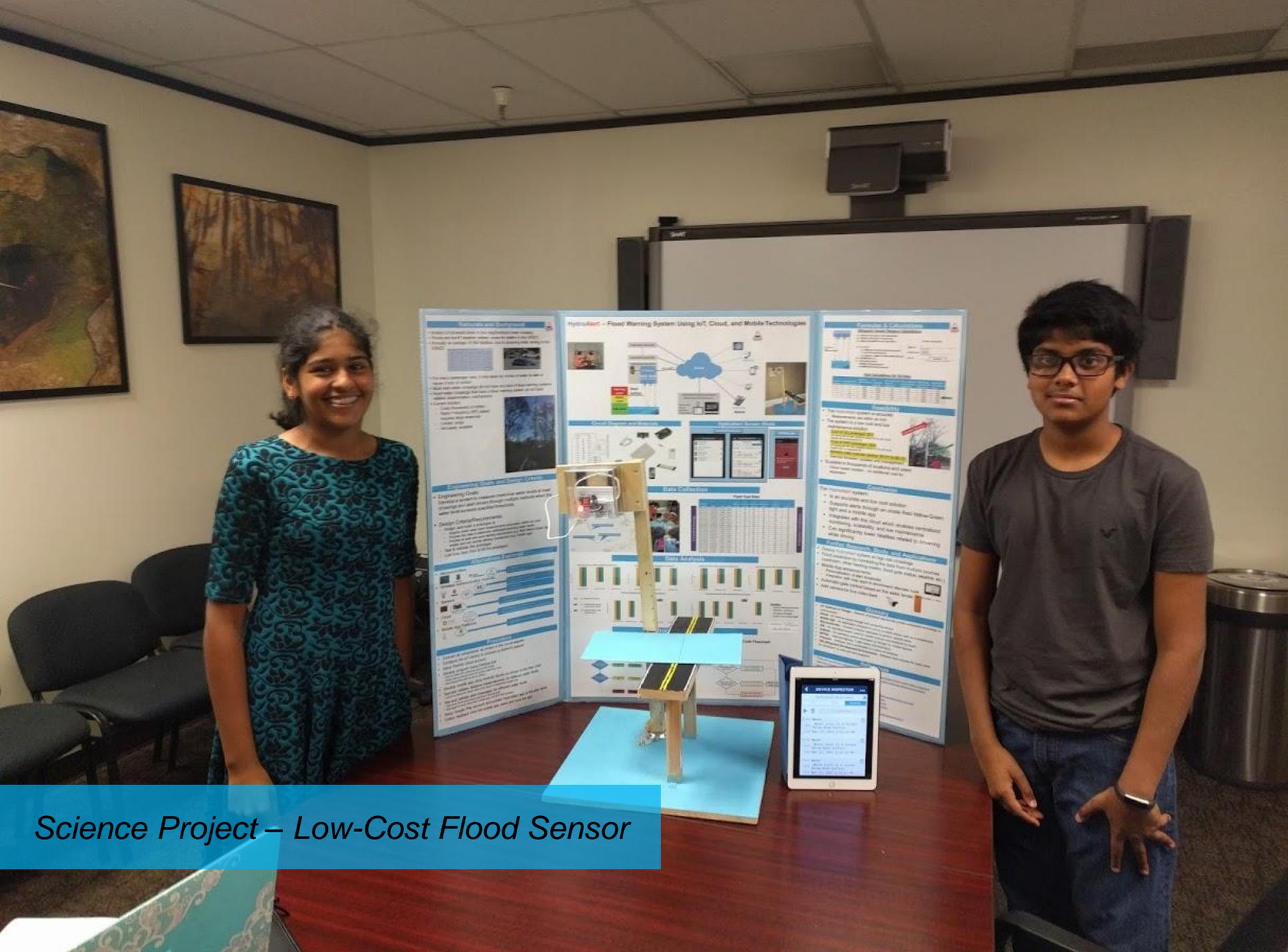
Flood Safety Awareness Event

*Deaf and Hard-of-Hearing
Severe Weather Town Hall*



*Deaf and Hard-of-Hearing
Severe Weather Town Hall*





Science Project – Low-Cost Flood Sensor



Field Testing of Flood Sensor



Field Testing of Flood Sensor



Emergency Management Institute

Advanced Professional Series

Applying Professional Emergency Operations and Management Skills

Prevention • Protection • Mitigation • Response • Recovery



FEMA

The Advanced Professional Series

The Advanced Professional Series was established to motivate and challenge students to continue emergency management training.

These classroom courses build practical disaster management and coordination skills.

Contact your State Training Officer for a schedule of offerings.

Students who complete the 5 required courses and any 5 of 15 elective courses are eligible to receive the EMI Advanced Professional Series Certificate of Completion.

<http://training.fema.gov/emiweb/APS>



How to Receive Your Certificate of Completion

When you have completed the series, requests for the Certificate of Completion must be sent first to the State emergency management agency for verification.

Include date and place, as well as name of the course manager, for each course completed.

The State agency will then send the request to the Emergency Management Institute (EMI) for a Certificate of Completion. This is signed by the EMI Superintendent and sent to the State Director for signature and awarded to the Student.

For more info
Ph: [redacted]
Email: [redacted]

Emergency Management Institute
16825 South Seton Avenue
Emmitsburg, MD 21727

Required Courses

Complete any 5 of the following:

- G775 EOC Management and Operations, or IS775 EOC Management and Operations
- G191 Incident Command System/Emergency Operations Center Interface, or E947 IEMC EOC/IMT Interface or E/L449 ICS Train the Trainer*
- G557 Rapid Assessment Workshop
- G270.4 Recovery from Disaster, the Local Government Role, or E210 Recovery from Disaster, the Local Government Role*
- G393 Mitigation for Emergency Managers or G318 Local Mitigation Planning

Elective Courses

Complete any 5 of the following:

- G288 Local Volunteer and Donations Management
- G364 Multi-Hazard Emergency Planning for Schools, or L363 Multi-Hazard Planning for Higher Education*
- IS703 NIMS Resource Management (Independent Study)
- G202 Debris Management, or E202 Debris Management Planning for State, Local and Tribal Officials*
- G386 Mass Fatalities
- G361 Flood Fight Operations
- G110 Emergency Management Operations Course for Local Governments, or one of the following IEMC courses E900, E905, E910, E915, E920, E930, E945, E947*
- G108 Community Mass Care and Emergency Assistance
- G358 Evacuation and Re-entry Planning
- G290 Basic Public Information Officer, or E388 Advanced Public Information Officer*
- G271 Hazardous Weather and Flood Preparedness, or IS271 Anticipating Hazardous Weather and Community Risk (Independent Study)
- G272 Warning Coordination
- E/L/G 146 Homeland Security Exercise and Evaluation Program (HSEEP)
- G366 Planning for the Needs of Children in Disaster
- G235 Emergency Planning

* All substitute E or L courses are subject to the Approval of the State Training Officer.

Brainstorming Activity:
Planning Team Members

Decide on the planning team to create or revise the EOP to specifically address the needs of your school.

Discuss your selections.

Brainstorming Activity:
Planning Team Members

Who should be included on the planning team to create or revise the EOP to specifically address the needs of children?

Be ready to explain your selections.

School Safety Planning Course Attendees

Group Activity: Organization and Assignment of Responsibilities

What are the responsibilities of each group or individual?

How might those roles differ in your community?



School Safety Planning Course Attendees



Thank You