



TFMA Flood Model


TFMA Fall Summit
 August 28, 2019
 Stephanie Griffin, P.E., CFM



Agenda



- TFMA flood model intro
- Public outreach ideas
- Model check in/out
- Model setup
- Model demonstration

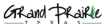



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WARD's Stormwater Floodplain Simulation Model


- Simulates multiple scenarios related to floodplain management
 - Parking lot
 - Retention pond
 - Wetlands
 - Homes in floodplains
 - Levees
 - Power of water

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TFMA Flood Models

- TFMA owns 7 models
 - Lubbock
 - El Paso
 - Fort Worth
 - Cedar Park
 - San Antonio
 - Katy
 - Harlingen



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Public Outreach Ideas

- Schools
 - Science night
 - Career Day
 - Summer programs
 - Scouts
- Bus drivers
 - School district
 - City-owned
- Community events
 - Festivals
 - Library events
 - Health fairs



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Supplemental Outreach Materials

- **Free** FEMA brochures
- Local floodplain brochures
- **Free** TFMA materials
 - Stickers
 - Tattoos
 - Bumper stickers
 - TexAnna coloring books
 - TFMA calendars
- OEM **freebies**
 - KnowWhatToDo pencils
 - Stickers
 - Crayons
 - Emergency kits
- Lifesaver candies
- iPad with FEMA site

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Model Check In/Out Process

- Contact local TFMA flood model representative
- Sign lease agreement
- Coordinate pick up/return of model
- At pick up, confirm that model is in good condition and has all of its pieces
- When finished, **DRY OUT** the model
- Return model to TFMA rep who will confirm model condition and all pieces returned
- Sign Page 2 of lease and provide feedback on model use

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TFMA Flood Model Reps

- Lubbock
 - Steven Nelson steven.k.nelson@gmail.com
- El Paso
 - Sandra Hernandez smhernandez@team-psc.com
- Fort Worth
 - Larissa Knapp-Scott knappscott@ija.com
- Cedar Park
 - TFMA Executive Office mscasebier@tfma.org
- San Antonio
 - Joe Fernandez josef@sara-tx.org
- Katy
 - Elizabeth Levitz elizabeth.levitz@acom.com
- Harlingen
 - Martha Viada mviada@mharlingen.us

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Model Lease

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Questions for Students

- What is the water cycle?
- What is a watershed?
- What is a flood?
- What causes flooding?
- What should you do in a flood?
- Do you have an emergency kit at home? If so, what does it include?
- Where is the water going? Which way is it flowing?
- What is the difference between a flood and a flash flood?

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Questions for Adults

- Same questions used with students PLUS
- What floodplain do you live in?
- Do you have an emergency kit ready?
- Does your street flood?
- Is your house susceptible to flooding?
- Do you have flood insurance?
- Do you know the consequences of not having flood insurance?

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Model Setup and Demo



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Resources

- You Tube demo:
<https://www.youtube.com/watch?v=rtLQFd-2Hhw>
- <https://www.weather.gov/wrn/spring2017-flood-sm#sp15>
- <https://tfma.site-ym.com/?page=Outreach>
- https://www.weather.gov/tsa/hydro_tadd
- <https://www.nssl.noaa.gov/education/svrwx101/floods/>
- <http://www.gptx.org/city-government/city-departments/planning-development/floodplain/>



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