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

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

9/16/19
TFMA Flood Models

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

Public Outreach Ideas

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

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
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

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  lknappscott@ju.com
• Cedar Park — TFMA Executive Office  necropsion@tfma.org
• San Antonio — Joe Fernandez  josef@sara-tx.org
• Katy — Elizabeth Levitz  elizabeth.levitz@geocom.com
• Harlingen — Martha Viada  mviada@myharlingen.us

Model Lease

To Be Completed by TFMA

1. Vacuum was run in good condition with all related components.

   Signature ___________________________  Date ____________

2. Vacuum was returned in good condition with all related components.

   Signature ___________________________  Date ____________

Date: 9/16/19
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?

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?

Model Setup and Demo
TFMA Flood Model

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

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/