FloodPro

September 20, 2012

Presented By:
Kevin Shunk, P.E., CFM
City of Austin
USP052701-5/27/81-AUSTIN, TEX: Richard Poss, a resident of Jefferson Street, one of the hardest hit areas in the 5/25 flash flooding here, looks over what remains of his house that was situated on Shoal Creek. Poss is where the door to a large glassed-in den was located before the flood. Poss said he felt lucky to have been out of town during the flood as neighbors four doors away were swept away and drowned. UPI Bob Thomas
Where We are Today

- Active community
- 10,000 structures and roads in floodplain
- Floodplain info requests – 6 per day
- Staff time
- Response time
Historic Floodplain Info

- Profiles
- FIRM
- GIS and Web Viewer
- FTP for models
- Elevations certificates
- Database query for rainfall info
- Hotline for misc
WELCOME TO FLOODPRO

Here you will find a variety of useful information about flooding in Austin. Whether you are a homeowner trying to find out if your home is in the floodplain or an engineer designing stormwater controls for a new development, you've come to the right place. Using FloodPro, you will find:

- **Floodplain Information** (that may affect your property)
- **Floodplain Models** (to assist with development)
- **Rain and Stream Gauge Data** (for current rain events)

To begin using FloodPro, Click on the links to the left.

For more flood protection information, please visit our website, email us at FloodPro@austintexas.gov, or call (512)974-2843
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Flood Warning

- Real-time rain and stream level gauges

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Building Steps

• How do we do what we do?
• What do we want FloodPro to do?
• Build it
• Test it
• Use it
How Does it Work?

- Web Tool
- Data Processing Tool
- Parcel Flood Status Feature Class
- Preparing Data
- Maintaining Data
Web Tool

- **Silverlight**
  - Multi-browser friendly
  - Future: JavaScript, HTML5, other
- **Use existing code**
- **Less is better**
Data Processing Tool

- Python v2.6
- FME v.2011
- Calculates FP elevation
- Creates data table
- Need computing power
Parcel Flood Status Feature Class

- **FloodPro brain**
- **Pre-process data**
- **Data Merge**

County appraisal district ID  
Model data  
Water surface elevations  
Elevation certificates
Data

- **Preparation**
  - Consistent file names
  - Consistent directory structure

- **Maintenance**
  - Parcel data
  - Models
  - Update frequency
FloodPro

http://austintexas.gov/department/watershed-protection

Floodplain Hotline
512-974-2843

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