



**REQUEST FOR PROPOSAL ADDENDUM
PURCHASING OFFICE
CITY OF AUSTIN, TEXAS**

REQUEST FOR PROPOSAL: SMW0126 ADDENDUM NO. 2 DATE OF ADDENDUM: February 26, 2015

This addendum is to incorporate the following questions and answers:

Q1: Please clarify the nature of the letters and correspondence requested in Tab 4, part iv.a of the Proposal Preparation Instructions.

A1: This has been removed from the Proposal Preparation Instructions.

Q2: What is the expected start date of this project?

A2: The estimated award date would be 120 days out from the date of submission. We do have a new City Council, so it could be as far out as 150 days. Generally, we require up to 30 days to complete a contract after we receive approval from City Council to move forward. At that point, the awarded Contractor would work with the Watershed Protection Department to set up a plan for the start date.

Q3: Most of the data sources would require coordination with the City and potentially other entities. Will the City provide a single point of contact (Project Manager) to manage the coordination and the schedule?

A3: Yes, the City will provide a single point of contact to manage coordination with other entities.

Q4: The integration efforts for any data stream depend on the available interface/data format of that data stream. Should we provide a cost for each of the existing data fees, or provide an estimated average cost per data feed (existing or future)?

A4: If a Proposer can identify a specific price for existing available data streams, it should be included in the proposal. We understand that many of the data fees are not currently readily available and will require coordination, and for that reason it may be difficult for Contractors to provide a specific price for incorporating an essentially unknown data stream. Please also include an estimated cost for data feeds that may be incorporated in the future. This cost could be assessed by data stream and/or as an hourly cost to develop an interface to interpret the data stream, or even in another manner at the discretion of the proposer.

Q5: Do you know the anticipated start date for the FEWS – COP work? Does the City expect work on all three RFPs to start at the same time, or will they start/flow in a cascaded fashion?

A5: At the moment it is difficult to say, we would anticipate starting work in 6-9 months. The COP would likely need to be the last piece finalized as the other two RFP solutions (Floodplain Mapping and Modeling and Cameras) need to be integrated.

Q6: For all use cases involving polygons, will polygons be derived and presented from a source system OR will they be derived by the vendor from raw data that will be presented to the vendor?

A6: It is anticipated that polygons would be presented to the COP for display from a source that generates them (for example, the Floodplain Mapping and Modeling software or a preexisting library of polygons).

Q7: This scope of work states, “Investigate providing a link to the City’s current SCADA system for control of active flood warning devices such as flashing lights and gate arms” – does this mean some type of remote control from the GUI/COP?

A7: If the COP has SCADA capabilities (e.g. can be used to remotely send radio signals to operate flashing lights or gate arms), please note this in your proposal, as well as a proposed hourly cost for working with the City to implement such capabilities.

Q8: Section 4.4 of the scope states, “3-D or ArcScene Maps for high level briefings” – can you provide any more detail on what this means?

A8: The COP will normally display an extensive array of data to help FEWS operators make quick decisions. However, it is also desired that FEWS be able to utilize the COP to assist with providing more user-friendly visualization of situations, both in real-time and as an after-action tool, for laypersons. In other words, there may be a configurable “view” within the COP, or through a related but separate software application, that provides a more “user-friendly” view that could be used to brief first responders, emergency management personnel, etc. Information displayed may include predicted/actual floodplain extents, depths, number/location of people or structures affected, number of bridges flooded, etc.

For example, FEWS personnel have built this website:

<http://www.atxfloodstest.com/sliderTest/>

It provides simple functionality for viewing the floodplain of Onion Creek as it relates to the height of the USGS Stream Gauge located at Highway 183.

Q9: Can you elaborate on the functionality required for the volunteer flood reports to be incorporated into the system?

A9: Assume that there will be a datastream available that will pass flood reports (including a lat/lon coordinate, text descriptions, and potentially photos or video). Each report should be mapped, with the ability to click on the point to view the associated metadata.

Q10: Can you provide where the data is available for “anticipated structure flooding (roadways and buildings) with anticipated depth of flooding” as per Section 4.0 of the Scope of Work?

A10: Assume that this information will come from the Floodplain Mapping and Modeling tool, likely in the form of a depth raster (wherein each pixel represents a depth of flooding), a depth polygon (a vectorised version of the raster), and a polygon showing overall flooding extents with date/time of flooding.

Q11: Section 4.4 of the Scope of Work asks for “Pre-determined maps for post-storm analysis for damage estimates” – is the data input for the creation of “pre-determined maps” coming from the Flood Forecasting Mapping and Modeling solution detailed in RFP5600_SMW127?

A11: This information will come from the Floodplain Mapping and Modeling tool. It is possible that this After-Action Report functionality would be a better fit in the Floodplain Mapping

and Modeling tool; as discussed, the City may make multiple awards such that we use the COP provided by one vendor and after action reporting from the Floodplain Mapping and Modeling software.

Q12: Which watersheds are you looking to map?

A12: Any watersheds that touch the City of Austin. That can be those that drain into Austin or have any portion within the City limits.

Q13: What are the procedures for a change in price if the cost of providing the service changes in a previously unforeseen way?

A13: All prices are firm and fixed for the first 12 months. After that, you can submit in writing that you need a price adjustment and support your price increase request with BLS data. If you need to do this, it may take City personnel 45 days to review the request for price adjustment (so send in the request early).

If the change is over the City Council threshold, it will need to go before the Council, which could take several months.

In cases of extreme scope changes, our hands would be tied. For that reason we try to get everything in the contract, and it is important that the Contractor put anything in the proposal that we may have forgotten in the RFP. Though we try to get the contract as final as possible when signed, if an unforeseen change should come up where we need to add add a deliverable or change a deliverable, we can negotiate that within reason.

Q14: It sounds like the intended audience for this software package is the FEWS engineers/operators/hydrologists with a technical background. Is the COP tool just for FEWS or something more generally available to the emergency management community within the city?

A14: The intended audience is the FEWS group. If it would be useful for other groups to review the COP we would certainly allow that.

Q15: What brand of SCADA system is the City using currently?

A15: We currently use a software package called EVENTS <http://www.rope.com/> . It pulls data from our rain and stream gauges and uses alerting capabilities we have configured to control our flashing lights. We would like to move away from the SCADA system for the alerting portions and use it just to control gate arms and lights. We would like to see the alerting and rules-based alerts moved into the Common Operating Picture.

Q16: Do you want the Common Operating Picture to be optimized such that it could be extended for use in a more generalizable emergency management or first responder context?

A16: That is not a requirement; however a more flexible system would be viewed favorably.

Q17: Should the solution or software be web-based or could it be more independent and only push warnings through the web?

A17: The proposer may decide whether the interface is through the web or through a software product that is installed on a PC. However, there would be additional flexibility if it were accessed via the web. There is no requirement that the interface has to be web-based; however there are a lot of the other requirements to providing open source data. We are open to evaluate either option.

Q18: Should the solution be web-hosted or hosted on City of Austin servers?

A18: The City does not have a preference to host on City servers. If a proposer feels it would be optimal to host it internally on City servers as opposed to hosting it web based, then he/she should make that part of the proposal and explain why.

The due date for questions has been extended to Monday, March 2, 2015 at 5:00 PM Central.

The Bid Due Prior To: and Public Bid Opening: dates have been extended to Thursday, March 26, 2015 at 3:00 PM.

The sign-in sheet from the Pre-Proposal meeting is attached to this document.

All other terms and conditions remain the same.

BY THE SIGNATURES affixed below, this Addendum is hereby incorporated and made a part of the above-referenced Solicitation.

APPROVED BY:

Paige McDonald, Senior Buyer
Purchasing Office, 512-974-2076

ACKNOWLEDGED BY:

_____	_____	_____
SUPPLIER	AUTHORIZED SIGNATURE	DATE

RETURN ONE (1) COPY OF THIS ADDENDUM TO THE PURCHASING OFFICE, CITY OF AUSTIN, PRIOR TO BID OPENING OR WITH YOUR SEALED BID. FAILURE TO DO SO MAY CONSTITUTE GROUNDS FOR REJECTION OF YOUR OFFER.

PURCHASING OFFICE MEETING SIGN-IN SHEET

RFP & Description: RFP SMW0125, Camera Purchase and Installation Services for Flood
 Early Warning System - ¹³¹⁶ Geographic Users Interface for FEWS
 Buyer: Paige McDonald,
 Senior Buyer

Meeting Date: 2/18/15

Place/Room: CTECC /EOC

Please Print Legibly			
Name	Company/Agency/Dept.	Phone	Email
Georgia Billela	COA - Purchasing	512-974-2939	georgia.billela@AustinTexas.gov
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Tomás RODRIGUEZ	COA WPD	512-974-1491	Tomás.Rodriguez@austintexas.gov

PURCHASING OFFICE MEETING SIGN-IN SHEET

RFP & Description: RFP SMW0126, Graphical User Interface for Flood Early Warning System

Meeting Date:
2/18/15

Buyer: Paige McDonald,
Senior Buyer

Place/Room: CTECC
/EOC

Please Print Legibly

Name	Company/Agency/Dept.	Phone	Email
Tim Martin	Kenside	970 884 7573	tim.martin@kenside.com
Gregg Potter	Anything weather	459-2429 765-848- 407-234	gregg@anythingweather.com
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Paige McDonald	COA PURCHASING	512 974-2076	PAIGE.MCDONALD@AUSTINTEXAS.GOV
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Austin Austyn	Aqua Strategy	(512) 326 2604	baustin@aquastrategy.com
Blake Kellum	One Rain, Inc	936-661- 2180	blake.kellum@oneraingain.com

PURCHASING OFFICE MEETING SIGN-IN SHEET – VIRTUAL ATTENDEES

RFP & Description: RFP SMW0126 Graphical User	Meeting Date: 2/18/15
Buyer: Paige McDonald	Place/Room:

Please Print Legibly

Name	Company/Agency/Dept.	Phone	Email
Phillip M Kastelic	DHI Group		pmk@dhigroup.com
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Marti Bruening	Riverside Technology, Inc	970-498-1860	marti.bruening@riverside.com
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Brian	Vieux Inc	405-325-1818	brian@vieuxinc.com
Adam	Vieux Inc	405-325-1818	adam@vieuxinc.com
Rosemarie O'Conner	OneRain	800-758-7246	rosemarie.oconnell@onerain.com

Graphical User Interface for Flood Early Warning System (Common Operating Picture)

Statement of Objectives

Tomas Rodriguez, P.E., CFM | Matt Porcher, CFM
Susan Janek, P.E., CFM | Kevin Shunk, P.E., CFM

02.18.2015



Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Graphical User Interface Data Sources
- Questions

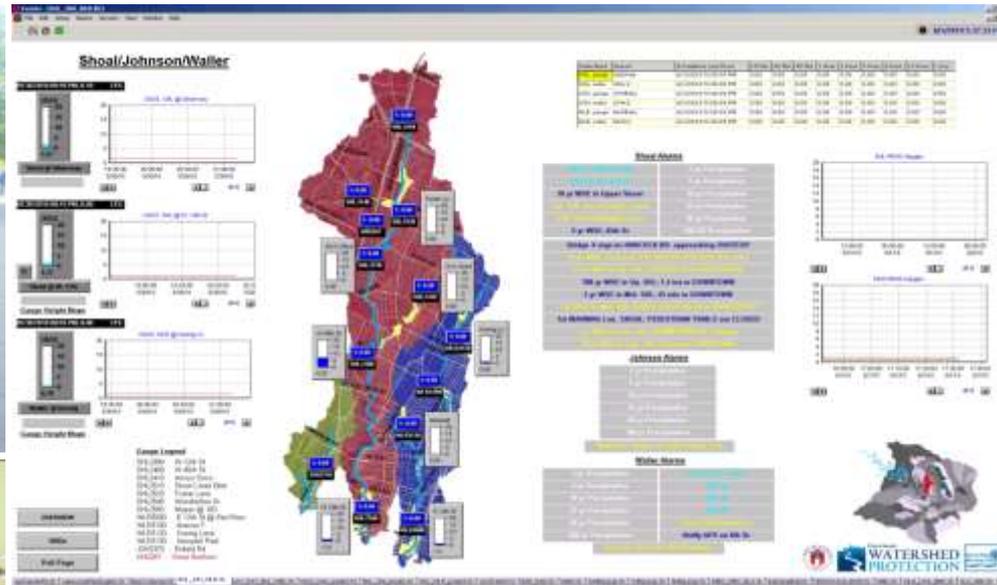
Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Graphical User Interface Data Sources
- Questions

The City of Austin Flood Early Warning System



The City of Austin Flood Early Warning System



Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Graphical User Interface Data Sources
- Questions

3 RFPs

- In response to the Corrective Action Plan (CAP) for the Halloween Flood
- 3 interrelated RFPs
 - Common Operating Picture
 - Flood Forecasting, Mapping, and Modeling
 - Flood Cameras
- The City reserves the right to make multiple awards

Objective

Contractor shall put together a graphical user interface that serves as a COP for flooding information. The System must be able to receive information from multiple sources, write rules on the information for a decision support system, and package information for use by other City departments or to the general public in an open source format.

In other words...

Can we **integrate** a variety of
data sources into a
Common Operating Picture
to improve our ability to
warn of impending **flooding**?

Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Graphical User Interface Data Sources
- Questions

Flood Reports from 3-1-1 & 9-1-1

The screenshot shows the Austin 3-1-1 website interface. At the top, there is a navigation bar with the Austin 3-1-1 logo and links for 'View Requests', 'Submit Request', and 'Austin, TX'. Below this, a search bar is visible with the text 'View Requests - 21,812 found'. The main content area displays a list of requests, each with a title, status, and a brief description. The requests listed are:

- Dead Animal Collection at 2507 LOYOLA LN**: Status: CLOSED. Closed - about 2 hours ago #15-0003297
- Pothole Repair at E 52ND ST & LANCASTER CT**: Status: OPENED. New - about 2 hours ago #15-0003044. Description: 1 block east of IH 35 traveling East onto 52nd right at intersection of Lancaster there are 2 potholes; citizen states the pothole is a size of football
- Loud Music at 6008 N LAMAR BLVD CENTRAL PARK 319**: Status: CLOSED. Closed - about 2 hours ago #15-0003047. Description: happens at anytime of the day
- Graffiti Removal - Public Property at 6505 AIRPORT BLVD**: Status: OPENED. New - about 2 hours ago #15-0003043
- Graffiti Removal - Public Property at 1840 BURTON DR**: Status: OPENED. New - about 2 hours ago #15-0003040
- Park Grounds Maintenance at 2201 BARTON SPRINGS RD**: Status: CLOSED. Closed - about 2 hours ago #15-0003007. Description: mainside parking lot of barton springs pool in comments section, "tree limb fell on citizens vehicle, was removed by her and another citizen, caused dents and scratches to vehicle"
- Park Grounds Maintenance at DEL CURTO RD & CINNAMON PATH**: (Status and description partially visible)

On the right side of the page, there is a green sidebar with the following content:

- Your All Day, Any Day, Info Center™**: Austin 311 provides uncomplicated access to City services and information and is aligned with the City of Austin's goal to become the best managed City in the country.
- Start Reporting**: Includes buttons for 'Download for Android' and 'Available on the App Store'.
- [Terms of Service](#)
- Status**: Open (574), Closed (21,208)
- Services**: Loud Music (4,597)

Austin Fire Department Computer-Aided Dispatch (CAD)

austintexas.gov
the official website of the City of Austin

Fire Incidents in Travis County

Active Fire Incident Page

This page provides information on active Fire, Rescue, & Hazmat Fire incidents in Austin and Travis County. Data is updated every 3 minutes.

DATE	TIME	DESCRIPTION	ADDRESS	CROSS STREET	AG
Feb 13, 2015	10:42 AM	SPILL - Liquid n 5 Gallons	Harris Branch Play / E Howard Ln		AFD
Feb 13, 2015	11:03 AM	HC - Hazardous Condition	8620 N Cypress Pt	CYPRESS POINT CV/No CrossStreet Found	ESD
Feb 13, 2015	11:07 AM	Traffic Injury Pri 4F	E Anderson Ln Sverd Eb / E Us 290 Hwy Sverd Wb		AFD
Feb 13, 2015	11:19 AM	Traffic Injury Pri 4F	2200 W Ben White Blvd Wb	PACK SADDLE PASS/S CAPITAL OF TEXAS HWY NB	AFD

Emergency Conditions Information (Home Page)

```

<rss version="2.0">
  <channel>
    <title>Active Fire Incident Page</title>
    <link>http://www.ci.austin.tx.us/fact/default.cfm</link>
    <description>
      This page provides information on active Austin/Travis County Fire incidents. Data is updated every 3 minutes.
    </description>
    <lastBuildDate>Fri, 13 Feb 2015 11:23:10 AM GMT</lastBuildDate>
    <copyright>2015 City of Austin. All rights reserved.</copyright>
    <language>en-us</language>
    <item>
      <title/>
      <link>http://www.ci.austin.tx.us/fact/default.cfm</link>
      <description>
        AFD - E Anderson Ln Sverd Eb / E Us 290 Hwy Sverd Wb - Traffic Injury Pri 4F - Fri, 13 Feb 2015 11:07 AM
      </description>
      <pubDate>Fri, 13 Feb 2015 11:07 AM</pubDate>
    </item>
    <item>
      <title>PACK SADDLE PASS/S CAPITAL OF TEXAS HWY NB</title>
      <link>http://www.ci.austin.tx.us/fact/default.cfm</link>
      <description>
        AFD - 2200 W Ben White Blvd Wb - Traffic Injury Pri 4F - Fri, 13 Feb 2015 11:19 AM
      </description>
      <pubDate>Fri, 13 Feb 2015 11:19 AM</pubDate>
    </item>
    <item>
      <title/>
      <link>http://www.ci.austin.tx.us/fact/default.cfm</link>
      <description>
        AFD - Harris Branch Play / E Howard Ln - SPILL - Liquid n 5 Gallons - Fri, 13 Feb 2015 10:42 AM
      </description>
      <pubDate>Fri, 13 Feb 2015 10:42 AM</pubDate>
    </item>
    <item>
      <title>CYPRESS POINT CV/No CrossStreet Found</title>
      <link>http://www.ci.austin.tx.us/fact/default.cfm</link>
      <description>
        ESD09 - 8620 N Cypress Pt - HC - Hazardous Condition - Fri, 13 Feb 2015 11:03 AM
      </description>
      <pubDate>Fri, 13 Feb 2015 11:03 AM</pubDate>
    </item>
  </channel>
</rss>
  
```

Flood Reports from Social Media

The image shows a screenshot of a Twitter search page for the hashtag #atxfloods. The browser address bar shows the URL: <https://twitter.com/search?q=%23atxfloods&src=typd>. The page displays several tweets related to flooding in Central Texas.

Who to follow:

- SNOOPYNEXTDOOR
- GAHCC @GAHCC

Trends:

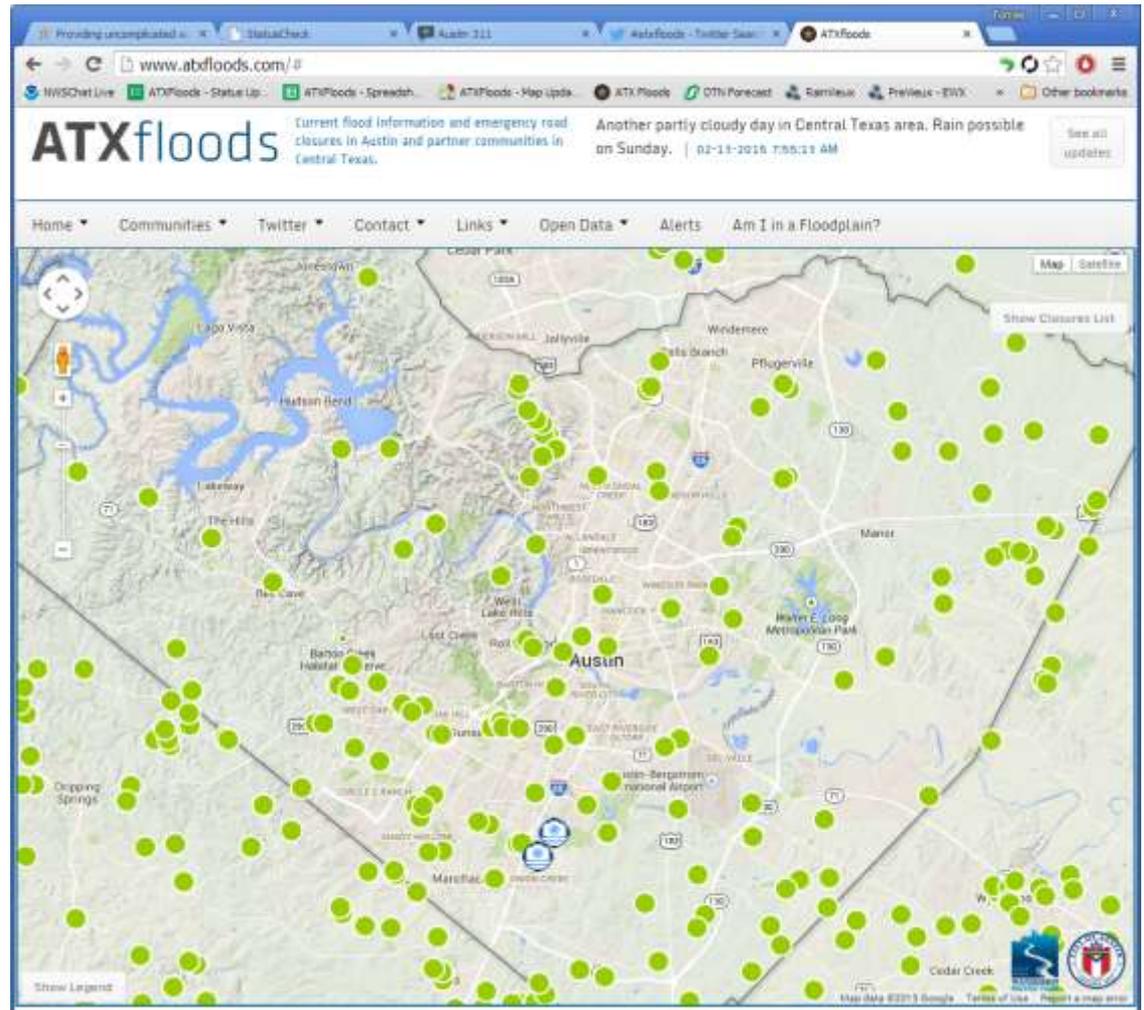
- David Carr
- #ValentinesDay
- #WorldRadioDay
- #NYFW
- Sun Needs
- New Drake
- Yoozy
- #CyberSummit
- Too Late

Tweets:

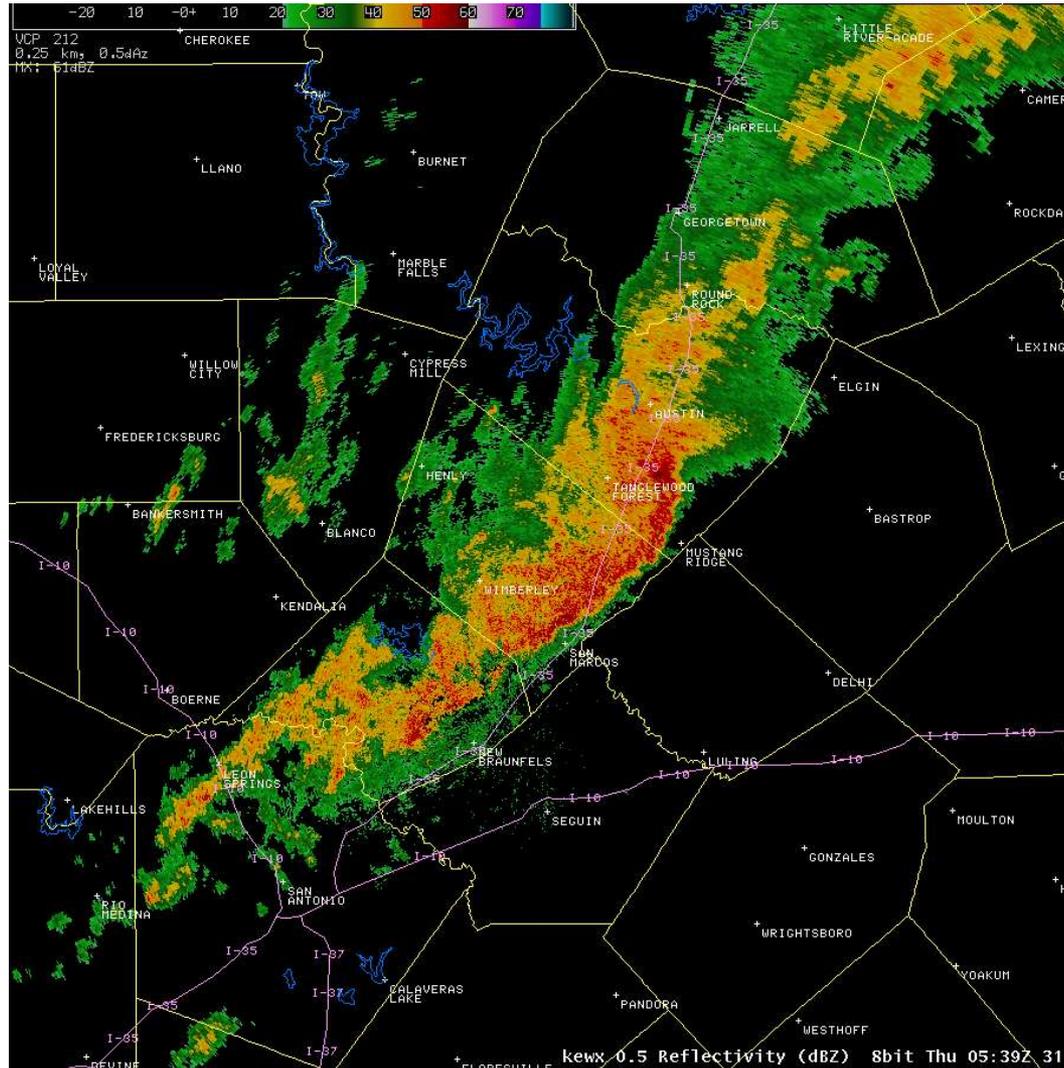
- Chris Shadrock** (@ChrisShadrock) · Jan 31: #ATXFloods website reporting 4 road closures in Wilco and Hays Co. Drive slow folks, roads are slick. #atxwx
- Ashley Roberts** (@RobertsAsh) · Jan 23: 68 low water crossings closed in Central Texas. Make sure to check ATXFloods.com before you head out! #ATXFloods #ATXtraffic #keyewx
- Austin Police Dept** (@Austin_Police) · Jan 22: #ATXFloods APD/TCSO will be closing low water crossings #3 and #4 near Spicewood Sprgs Rd due to rising water. Avoid area. WC4
- Williamson County** (@wilcogov) · Jan 22: Check atxfloods.com and facebook.com/preparingwilco for updates on closed low water crossings. #atxfloods
- ATCEMS** (@ATCEMS) · Jan 22: TRAFFIC ALERT: #TAOD Several road closures in the CenTex area. Know before you go, see closures here: ow.ly/HLRbF #ATXFloods
- City of Cedar Park** (@CedarParkTX) · Jan 22: The low water crossings at Samac Cypress Lane and Peach Tree are now closed. #atxfloods.com. Please avoid these areas. #drivesafe
- keyetv** (@keystv) · Jan 22: RT @roundrockpolice: #RRRTraffic Additional low water crossing closed at Harrell Pkwy @ Chandler Branch #ATXFloods
- Miguel Mike Gaytán** (@MikeGaytanTa) · Jan 22

© 2015 Twitter About Help Terms Privacy Cookies Adverts Brand Blog Status Apps Jobs Advertise Business Media Developers

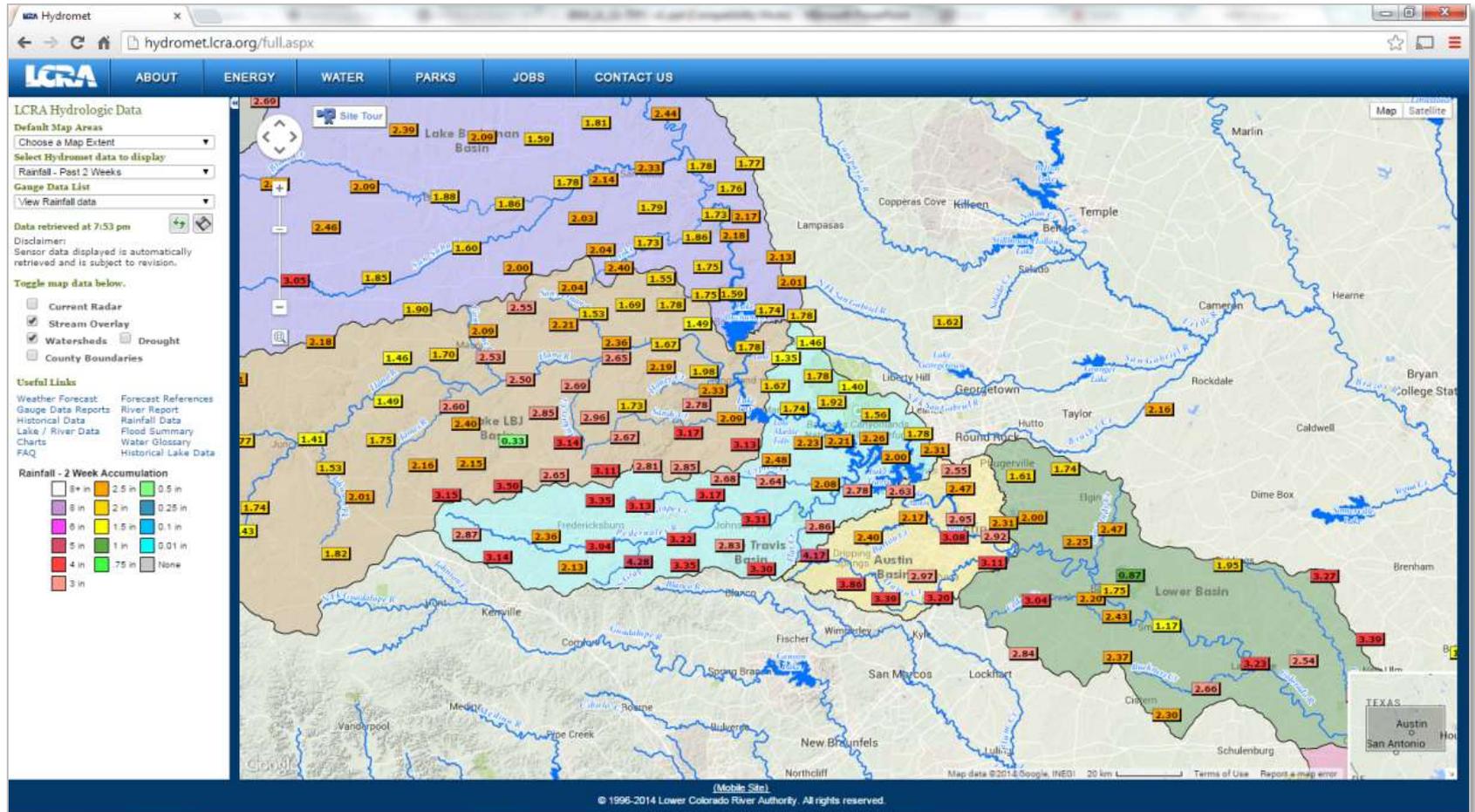
GPS Locations of Barricade Crews



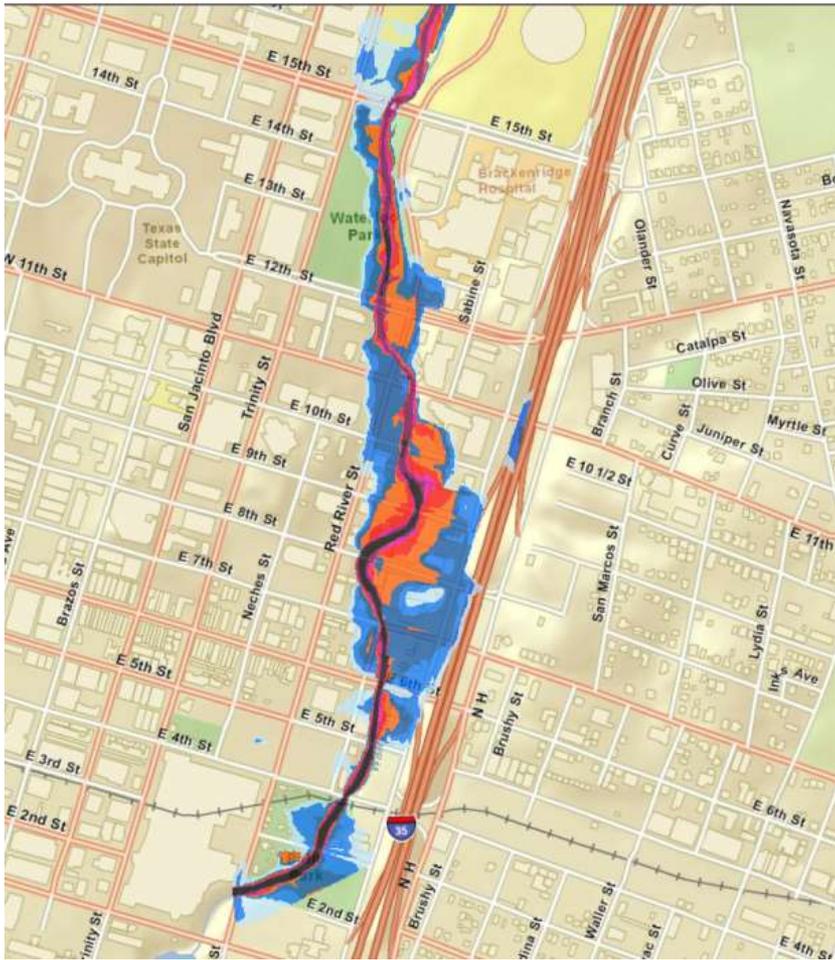
National Weather Service Radar



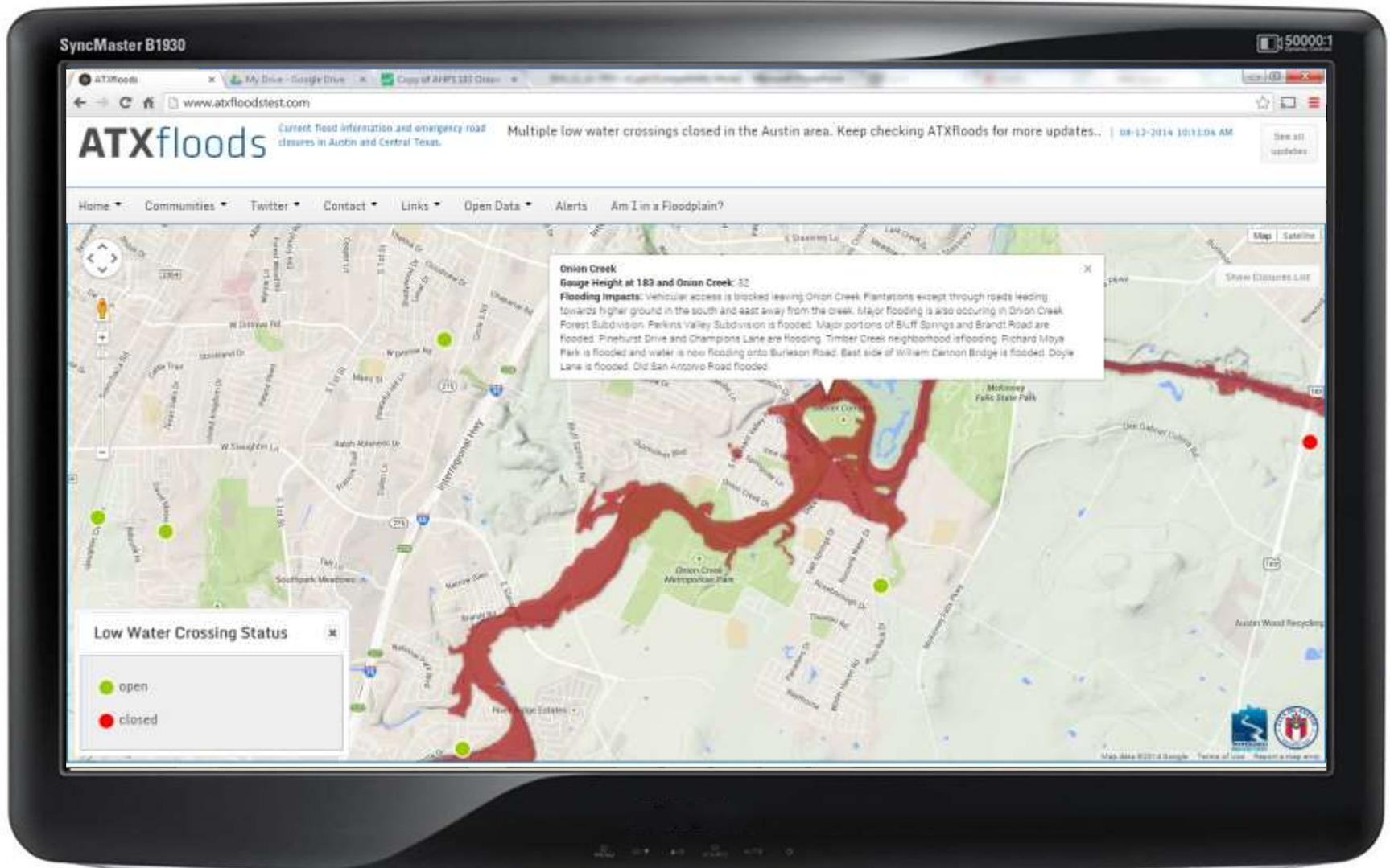
Publicly Available Rain Gauge Data



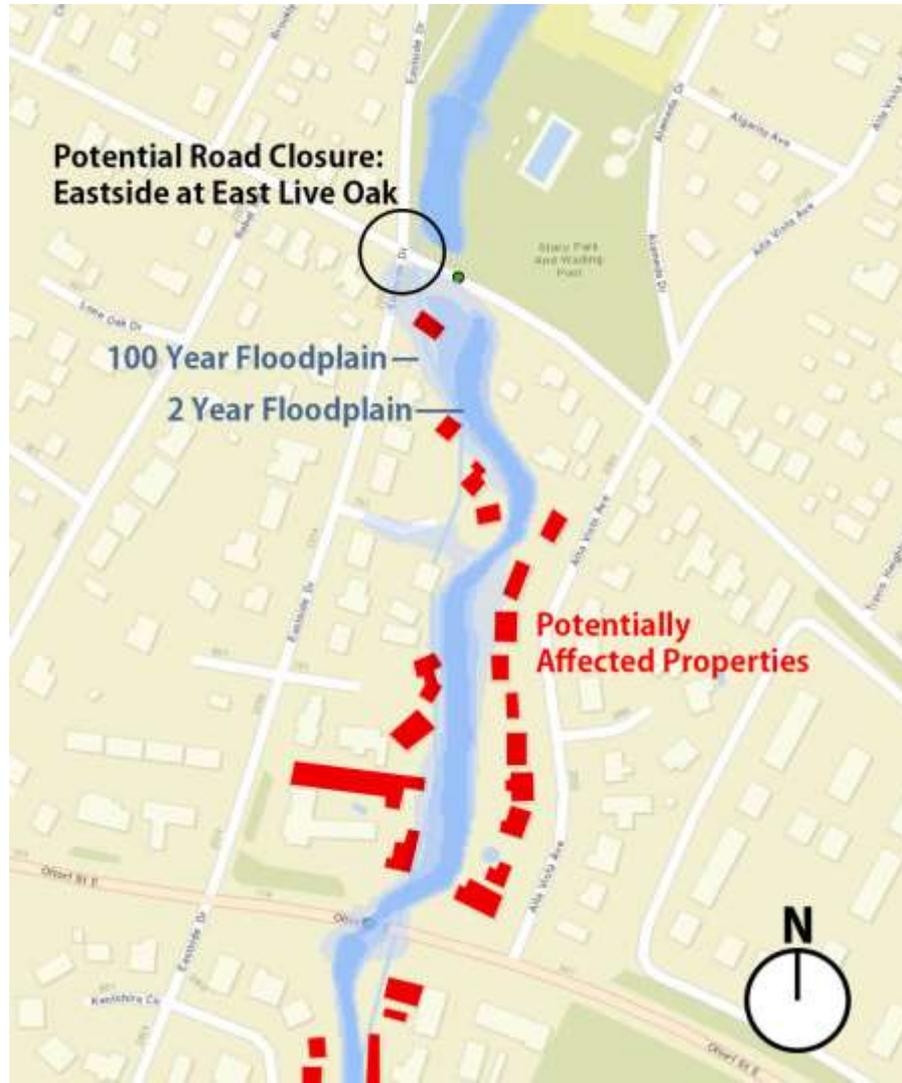
Forecasted level of flooding (extent and depth)



Current level of flooding (extent and depth)



Anticipated Road and Structure Flooding



Current flooded roads from ATXfloods.com

SyncMaster B1930

50000:1

ATXfloods Current flood information and emergency road closures in Austin and partner communities in Central Texas. Sunny in the Central Texas area | 11-10-2014 8:10:48 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.

No roads currently closed.
Click a crossing below to zoom in to it.

Note: Map and list of closures based on best information currently available and may not reflect actual road conditions.

Map data ©2014 Google Terms of Use Report a map error

Flood Cameras

SyncMaster B1930

50000:1

ATXfloods
www.atxfloodstest.com/cameraDemo.php

Current flood information and emergency road closures in Austin and partner communities in Central Texas. Multiple low water crossings closed in the Austin area. Keep checking ATXfloods for more updates.. 08-12-2014 10:31:04 AM

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

Bluff Springs Road at Onion Creek

Nov 11 at 5:58 PM

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.

19 crossings currently closed (of 580)
Click a crossing below to zoom in to it.

- Low Water Crossing grant crossing fixed in grid update
- Nameless Rd @ Nameless Hollow [Creek] Travis County, TX
- Colton Rd @ Coltonmouth Creek

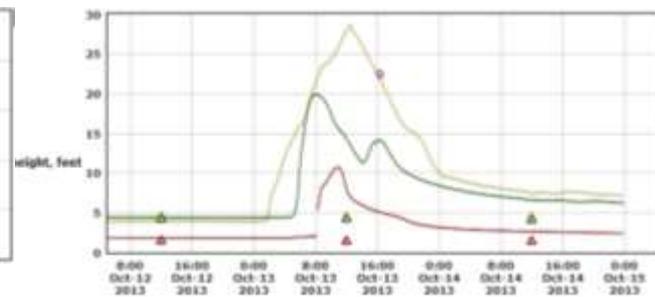
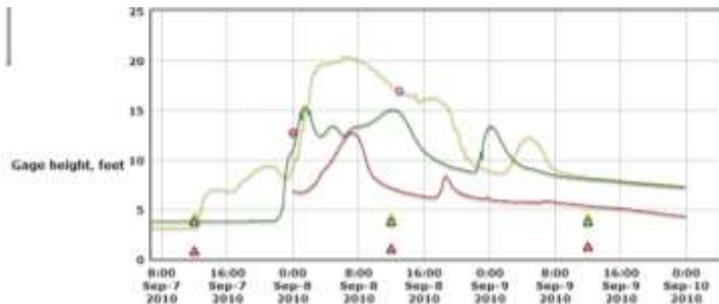
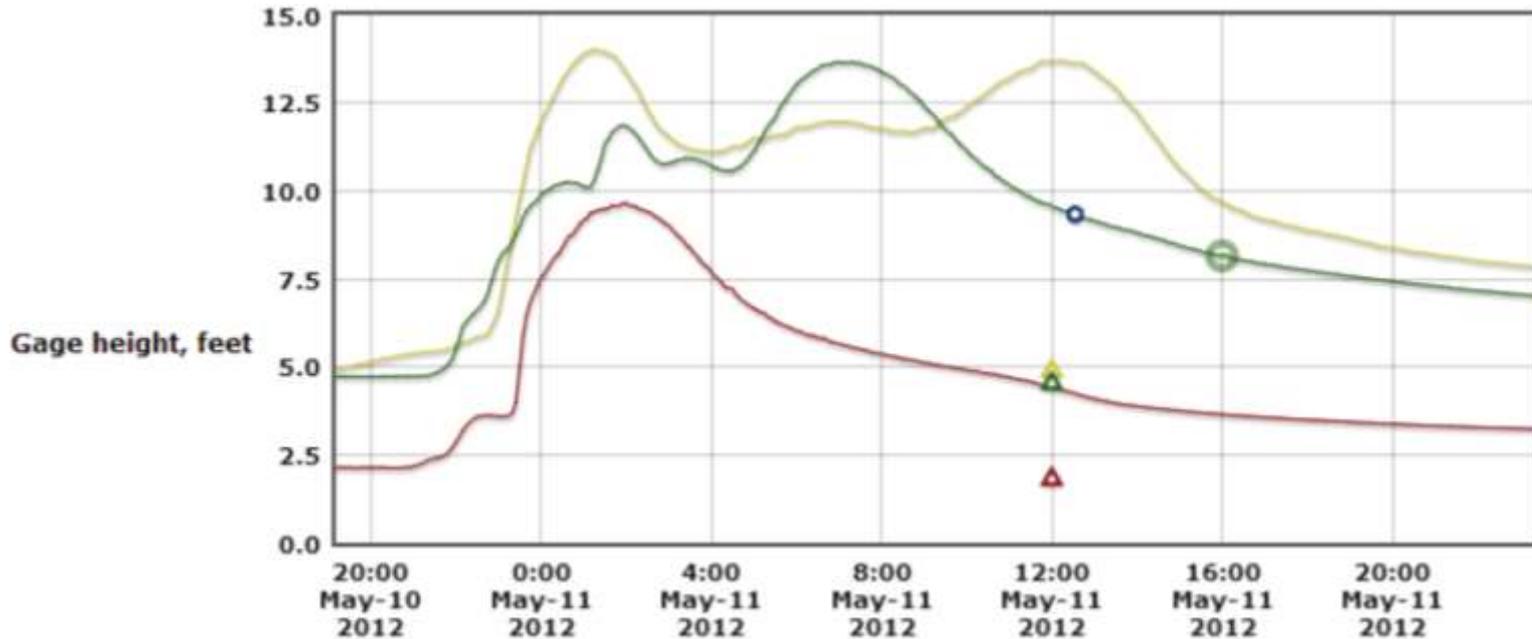
Low Water Crossing Status

- open
- closed

Map data ©2014 Google Terms of Use Report a map error

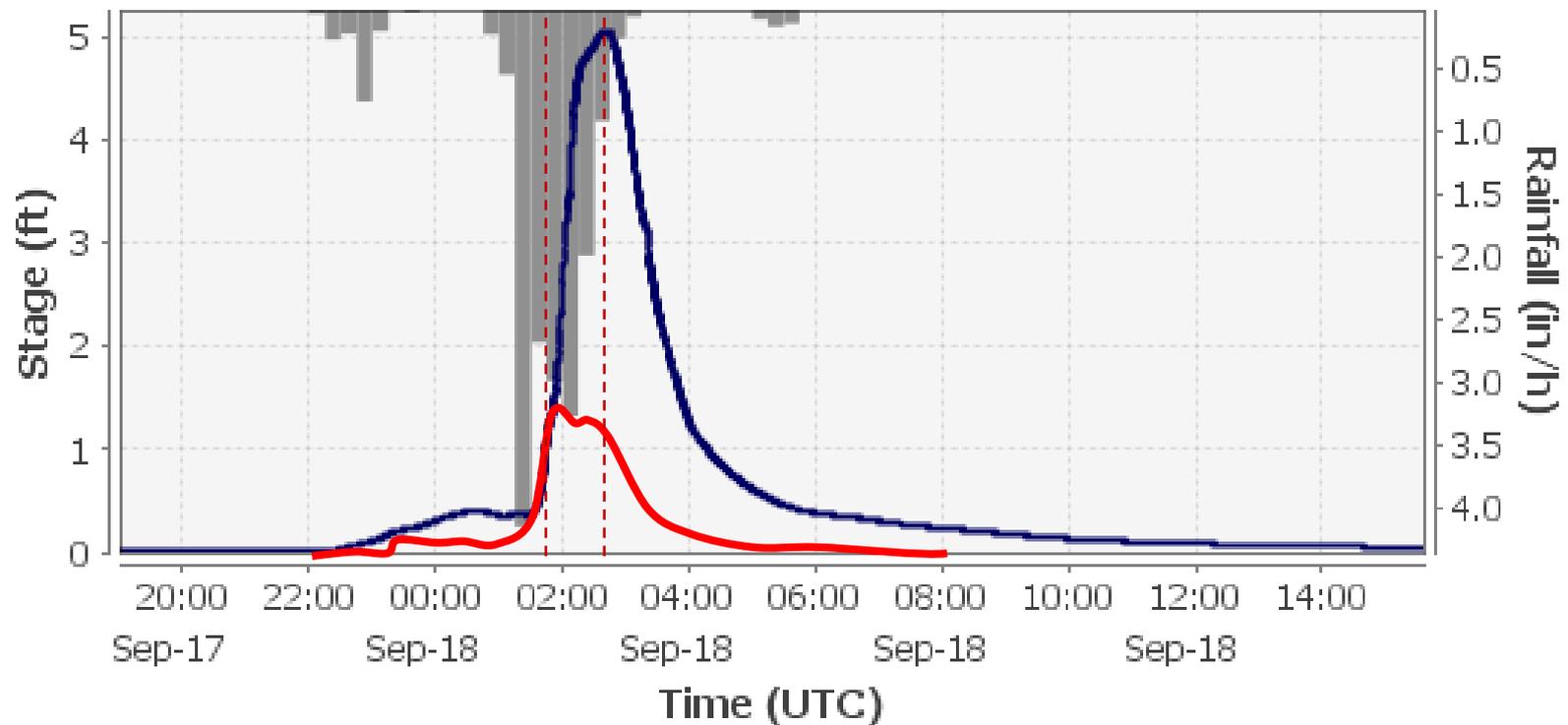
Volunteer Flood Reports

USGS Gauges / Discharge Hydrographs



Rules-Based Warnings tied to Stream Gauge heights

~50 minute travel time for peak at a point upstream to arrive downstream



— Stage ■ Upstream Rainfall

Hydrograph Type Stage Discharge

“Next Threshold Value” Warnings for Rain Amounts

How will rain continuing to fall impact...

Low Water Crossings?

Stream stage measurements?

After-Action Reporting: flood depths vs TCAD values

www.abdfloods.com/GeoRSS/

10/13/2013 Storm Photos

GeoTagged Photos of the 10/13/2013 Storm

Enter Address

name: Parkwood_6103.JPG
 geometry: $[5T 855333.30 238667]$

Layers

- Photos
- WMS FEMA 25-yr
- WMS FEMA 100-yr
- Predicted Map: 1:00 a.m.
- Predicted Map: 9:00 a.m.
- Creeks

Map data ©2013 Google, ©Terrasoft Ltd., ©OpenStreetMap contributors, Imagery ©Mapbox

propecess.traviscad.org/identity/Property.aspx?prop_id=364141

Travis CAD

Property Search Results > 364141 RODRIGUEZ TOMAS M & KIM T for Year 2014

Click on a **FE#** bar to expand or collapse the information

Property

Account

Property ID:	364141	Legal Description:	LOT 18 BLK B WOODS OF LEGEND DRMS SEC T
Geographic ID:	848381131	Appl Code:	
Type:	Real		
Property Use Code:			
Property Use Description:			

Location

Address:	709 BENDIGO OAK RD	Mapline:	6127
Neighborhood:	00708	Map ID:	041737
Neighborhood ID:	00708		

Owner

Name:	RODRIGUEZ TOMAS M & KIM T	Owner ID:	147747
Mailing Address:	709 BENDIGO OAK RD	% Ownership:	100.00000000%
	AUSTIN, TX 78743-1887	Escalator:	HS

Values

(+) Improved Homestead Value	=	3181.882
(+) Improved Non-Homestead Value	=	53
(+) Land Homestead Value	=	990.928
(+) Land Non-Homestead Value	=	33 Ag / Timber Use Value
(+) Agricultural Market Valuation	=	55 35
(+) Timber Market Valuation	=	25 35
(-) Market Value	=	2340.484
(-) Ag or Timber Use Value Rebuttal	=	35
(+) Appraised Value	=	5361.454
(-) 95 Cap	=	544.353
(+) Assessed Value	=	5221.111

Taxing Jurisdiction

Shown: RODRIGUEZ TOMAS M & KIM T
 % Ownership: 100.00000000%
 Total Value: 5361.454

Entity	Description	Tax Rate	Appraised Value	Taxable Value	Estimated Tax
01	AUSTIN RID	1.222000	5361.454	5318.111	\$5,599.80
02	CITY OF AUSTIN	0.409100	5361.454	5325.111	\$1,981.96
03	TRAVIS COUNTY	0.465300	5361.454	5345.355	\$1,194.85
04	TRAVIS CENTRAL APP DIST	0.000000	5361.454	5325.111	\$0.00

Conclusions

- Currently, FEWS personnel have to monitor all of the aforementioned data feeds
- Requires significant experience and “corporate knowledge”
- Looking for proposals for ways to reduce the burden on individual FEWS operators and improve decision-making capacity

Questions?

