

Get Ready to Participate:

- Send TEXT message
 - TO: 22333
 - MESSAGE: gciaz
- You will receive a reply:
 - You've joined Theresa Gunn's session (GCIAZ)



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Public Meeting March 2, 2016

Tonight's Agenda

- Interactive Exercise: The Reata Wash Floodplain
- Overview of the Reata Wash Flood Control Study
- Discussion:
 - Importance of reducing flood risks
- Next Steps
- Questions via "Poll Everywhere" & question cards
- Open House

Tips for a Good Meeting

- Silence phones but keep available to participate
- Everyone encouraged to participate
 - Public discussion, not a debate
- Allow time for others (no long speeches)
- Be respectful of others' opinions
 - Do not interrupt other participants
- Listen with an open mind

Reata Wash Flood Control Study

Purpose

- Protect residents and property
- Protect community facilities & infrastructure
- Maintain emergency access

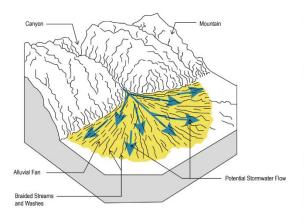
How

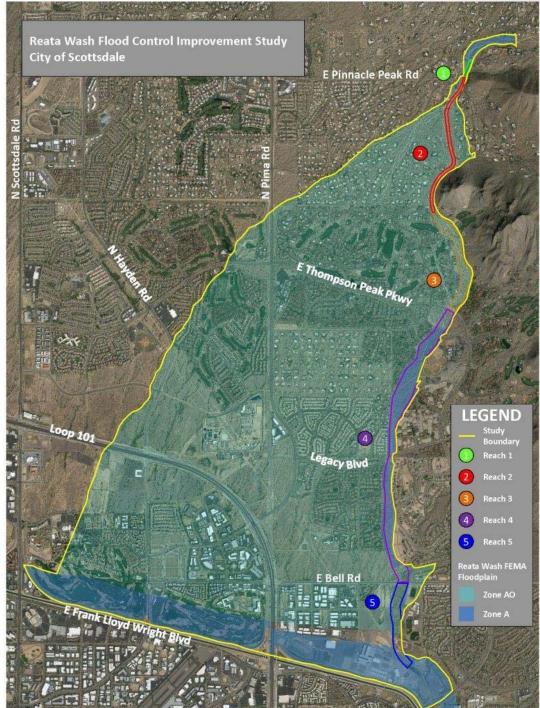
- Identify existing flood control structures
 - Determine Federal Emergency Management Agency (FEMA) compliance
- Identify potential flood control measures and their cost
- Engage public/seek input

Results

- Recommend alternative solutions to Council
 - Reduce risk of flooding
 - Remove or reduce current FEMA floodplain
- No funding currently identified for improvements
 - Council would need to allocate \$ to move forward

Reata Wash Floodplain





Q: What is a 100-year flood?



What is a 100-year flood?

- A. 1% chance to occur in any year
- B. Can have more than one in a single year
- C. Determined by NOAA using historical data
- D. 4-5" of rain in 24 hours
- E. All of the above

A: All of the Above

- 1% chance to occur in any year
- Can have more than one in a single year
- Determined by National Oceanic and Atmospheric Administration (NOAA) using historical rainfall data
- 4-5" of rain in 24 hours over this watershed

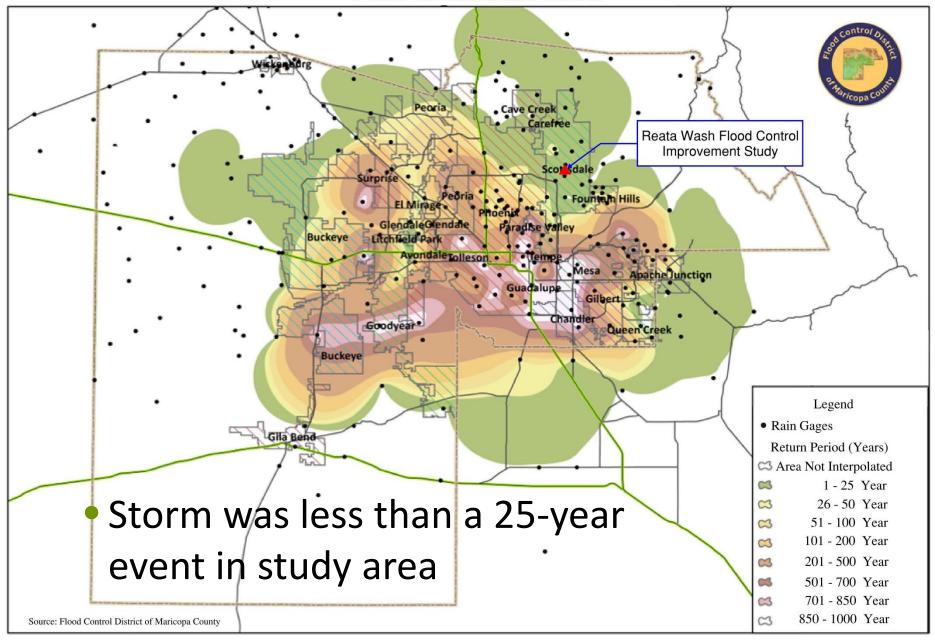
Why We Care About the 100-Year Flood

- Used to determine the FEMA floodplain hazard areas
- Federal and local standard for structural flood protection measures



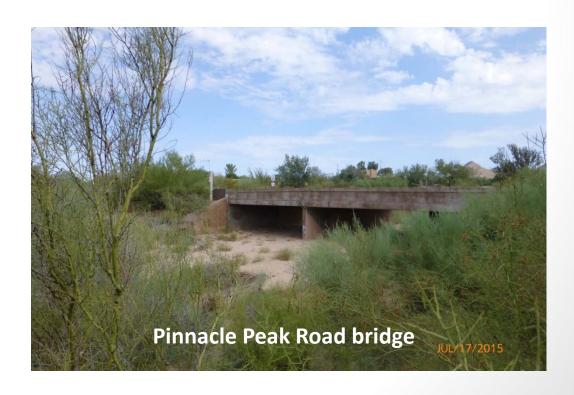
Storm of September 8, 2014

6 Hour Rainfall Return Periods



How much water is expected to flow at the top of Reata Wash during a 100-year flood?

Measured in cubic feet per second (CFS)

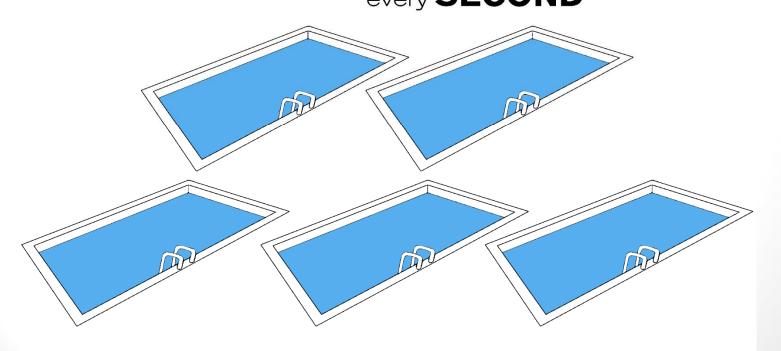


How much water is expected to flow at the top of Reata Wash during a 100-year flood?

- A. 800 csf
- B. 1,200 csf
- **C.** 6,800 csf
- D. 13,000 csf
- E. 18,000 csf
- F. 23,500 csf

A: 13,000 cfs

5 SWIMMING POOLS every SECOND



Approximately how many buildings do you think are in the floodplain?

 Includes homes, businesses, schools, fire stations, post offices, hospitals, etc.



Approximately how many buildings do you think are in the floodplain?

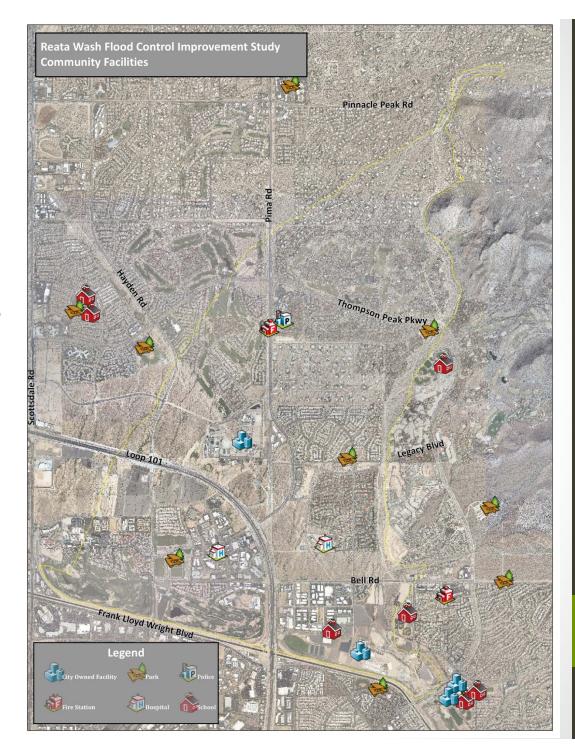
- A. 750
- B. 2,800
- C. 4,600
- D. 8,300
- E. 10,000

A:

4,600 Structures

Some of these include:

- 3,200 homes
- 229 multi-family
- 7 schools
- 2 fire stations
- 2 hospitals
- 1 police station
- 4 city owned facilities
- 8 parks



The Power of Floodwater





Videos taken by Scottsdale property owner and provided to City

Estimated Cost of Flood Damage

DAMAGE C O S T



^{*} Damage estimates based on national average flood damage. (source: floodsmart.gov), From 2010 to 2014, the average flood claim amounted to nearly \$42,000. (source: fema.com).

Flood Damage



Desert Mountain subdivision \$250k storm damage – Aug. 2014 storm

Flood Damage



Desert Mountain subdivision

Flood Damage



Sandflower subdivision

Q:

Approximately how much do property owners in Scottsdale pay annually for flood insurance premiums?

Flooded pool area

Approximately how much do property owners in Scottsdale pay annually for flood insurance premiums?

- A. \$150,000
- B. \$750,000
- C. \$2 Million
- D. \$4 Million
- E. \$10 Million

A: \$4 Million

- The total annual premiums paid by Scottsdale policyholders: \$4,047,883* annually
- The total coverage: \$2.3 billion*
- 35% of these policies are for properties in the Reata Wash floodplain⁺
 - 3,052 policies, \$1.8 million in premiums
- *Data as of May 15, 2015 for 8,798 policies per FEMA records
- ⁺ Source: Flood Control District of Maricopa County based on 2012 flood insurance data from FEMA



Study Corridor

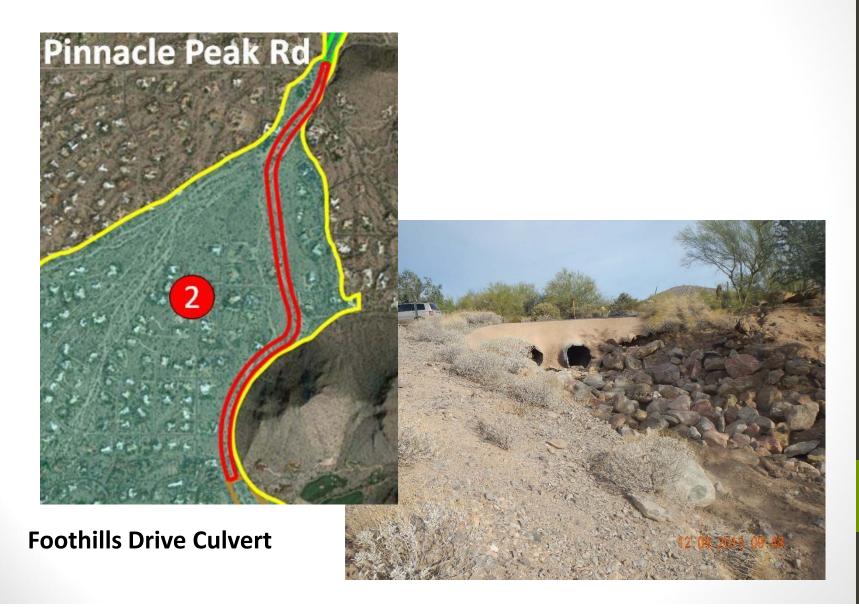
- Need holistic solution for entire drainage corridor
- Has to connect to protect everyone







Pinnacle Peak Bridge







Thompson Peak Parkway bridge







Bell Road Bridge



Dike 4 – East of WestWorld

Reach 11 Basin





Flood control can look like this

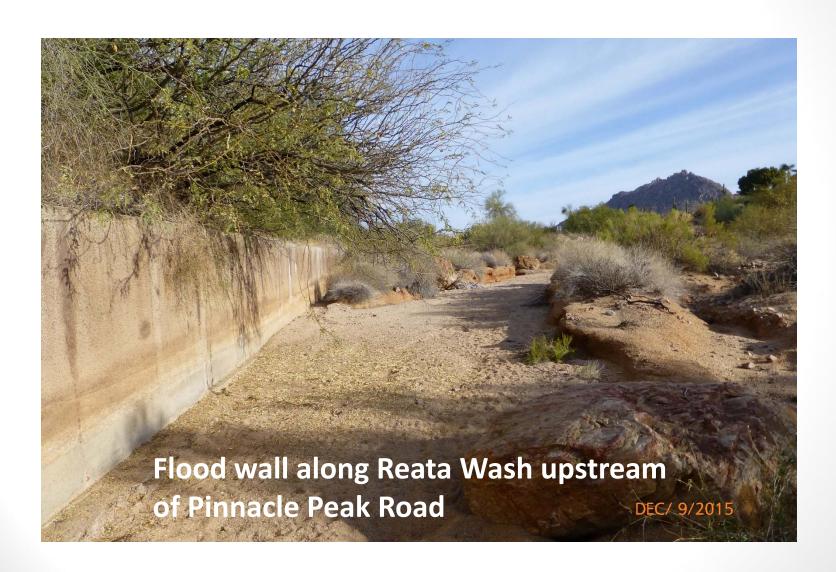


Buried bank protection South of Thompson Peak Parkway – east bank

...and this



...and this



...and this



Thompson Peak Parkway bridge

Yes, and even this



DC Ranch Market Street

Q:

How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

Property flooding, Sandflower subdivision



How important is it for the City to develop potential alternatives to reduce flooding risks in Reata Wash and remove FEMA flood insurance requirements?

- A. Very Important
- B. Somewhat Important
- C. Not Important
- D. Very Unimportant
- E. Don't Know

Reata Wash Study - Next Steps

- Conduct technical and environmental analysis
- Develop alternatives within the corridor
- Input from community on alternatives
- Present alternatives to City Council for consideration and possible action
- If approved, funding would need to be identified for a project

Stormwater Damage
Desert Mountain Golf Course Clubhouse
Photo taken June 2015



Text your questions or complete question card.....



Thank YOU!

- www.scottsdaleaz.gov
 - Search "Reata"
- Phone: 480-312-7328