

# Floodplain Management Plan

Meeting 2: 4/15/19

## Hazard Assessment

Pima County Regional Flood  
Control District Planning  
Committee



# FMP Tasks & Timeline Organization and Involvement Meeting One

## ***Step 1 Organize to Prepare the Plan***

- **October 2, 2018 - BOS Initiation by Resolution**
- **Fall 2018 - Planning Committee Formation**

## ***Step 2 Involve the Public***

- **Early Winter 2018 - Conduct informational meetings in floodprone areas**
- **Early Spring 2019 ~~Late Winter 2018~~ - Mail survey and project fact sheet to floodplain residents**

## ***Step 3 Coordinate***

- **Jan/Feb 2019 - Interview stakeholders**
- **Winter 2019 - Review and summarize existing plans and policies**

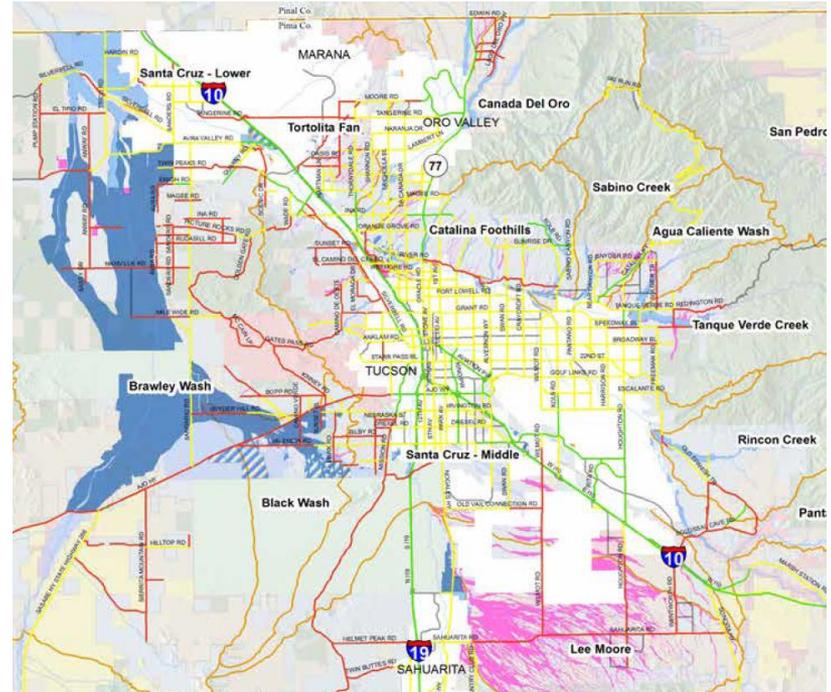
# FMP Tasks & Timeline

## Winter 2019

### Step 4 Assess the Hazard

#### Meeting 2 April January

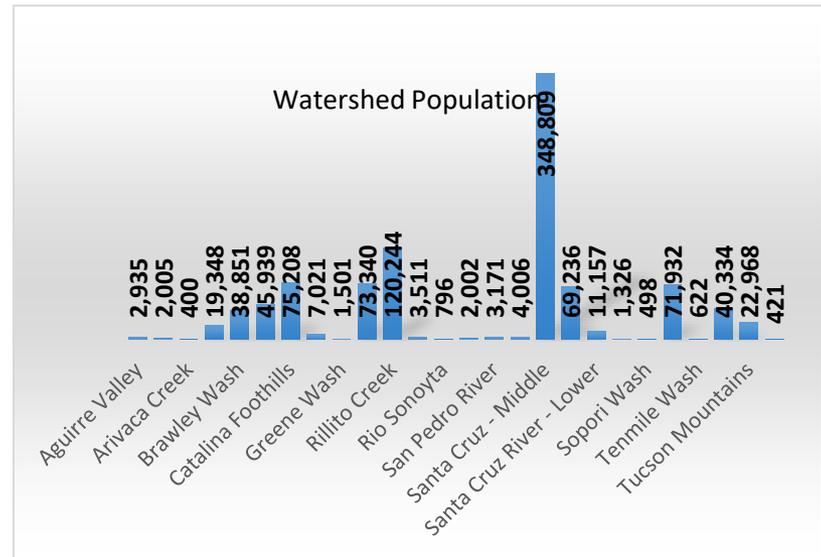
Describe hazards including historic floods, weather trends, and where flooding can be expected and make this information available to the Planning Committee and public.



### Step 5 Assess the Problem

#### Meeting 3 June March

Draft description of what and who is exposed to flooding and present them to the Planning Committee and public. In addition to residents exposure, specific requirements apply to areas repetitively damaged by floods, property values, flood insurance coverage, levees, dams and critical facilities.



# FMP Tasks & Timeline

## Mitigation Strategy Meetings 4, 5 & 6

Spring 2019

### ***Step 6 Set Goals - Meeting 4 July April***

**Work with Planning Committee to set goals based upon adopted policies and needs identified in steps 4 & 5.**

### ***Step 7 Review Possible Activities – Mtg 5 August May***

**Review all possible activities from NFIP CRS list to meet goals identified in step 6. Identify specific reasons to eliminate or pursue each activity in each problem area. Criteria to be considered by the Planning Committee may include funding, ownership, political and physical constraints.**

### ***Step 8 Draft an action plan – Meeting 6 September July***

**Prepare implementation plan for consideration by the Planning Committee that identifies specific activities to be included in the plan.**



## FMP Tasks & Timeline Adoption and Implementation Summer 2019 and Beyond



### ***Step 9 Adopt the Plan***

- Publish draft on District website - September ~~July~~
- Conduct public meetings - September ~~August~~
- Revise draft as needed – October ~~September~~
- Submit for Board approval - November/December ~~October~~

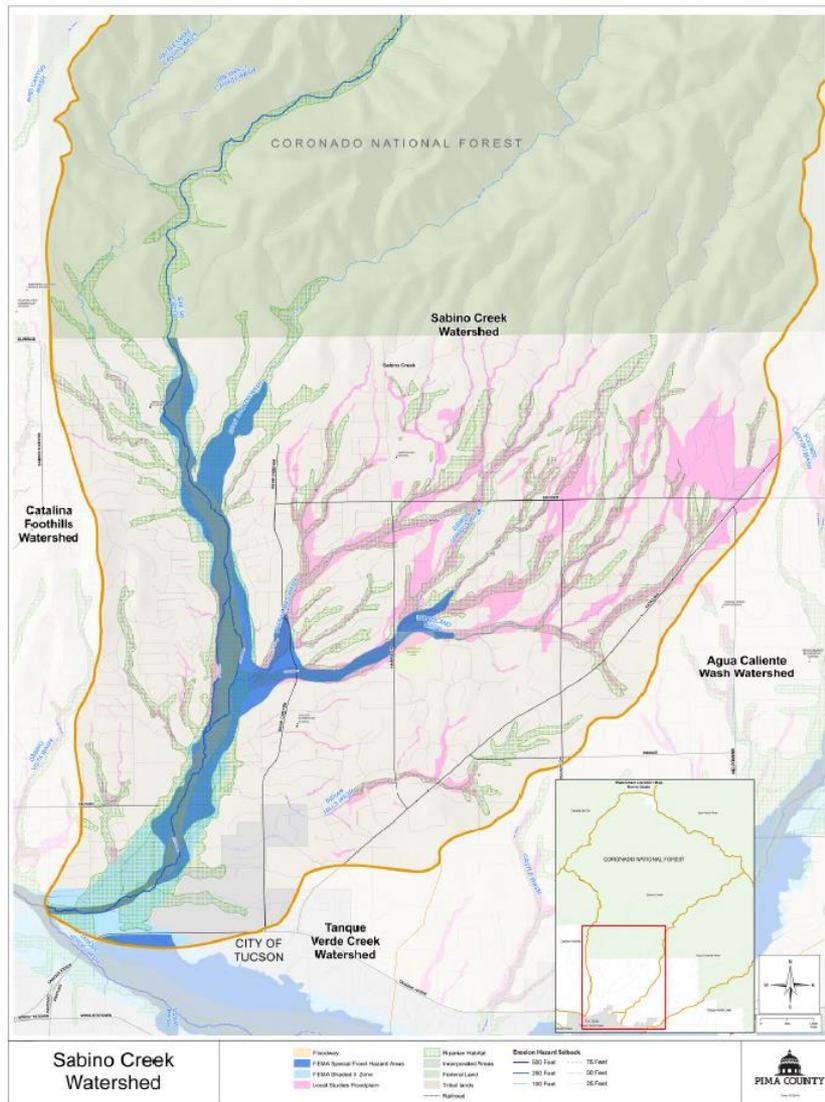
### ***Step 10 Implement, evaluate, revise***

**Annual evaluation and update provided to auditors and committee.**

# What is included on the hazard assessment maps and how good is the data?

- FEMA Flood Insurance Rate Map (FIRM) floodplains – a fluid product with varying degrees of accuracy as indicated by “flood zone” classifications such as Zone A.
- Local Floodplains – studies by developers or those conducted by the District for areas in which FIRMs are not available or are not up-to-date in order to identify development parameters including basin studies, TDNs and sheet flooding areas.
- Riparian Areas – a baseline product with spatial accuracy issues.
- Erosion Hazard Areas – default setback with spatial accuracy issues related to mapping of low flow channels, multiple channels and channel banks.
- Historic weather records and descriptions of past floods are available in the District’s Comprehensive Program Report.

# Sample Urban Watershed Flood Hazard Map



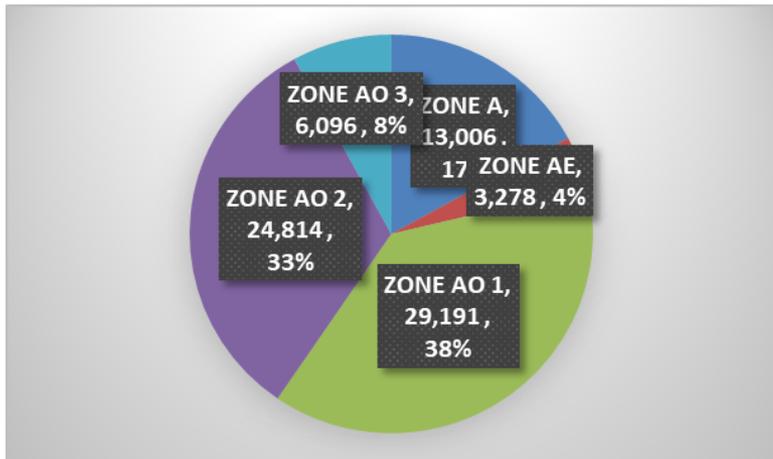
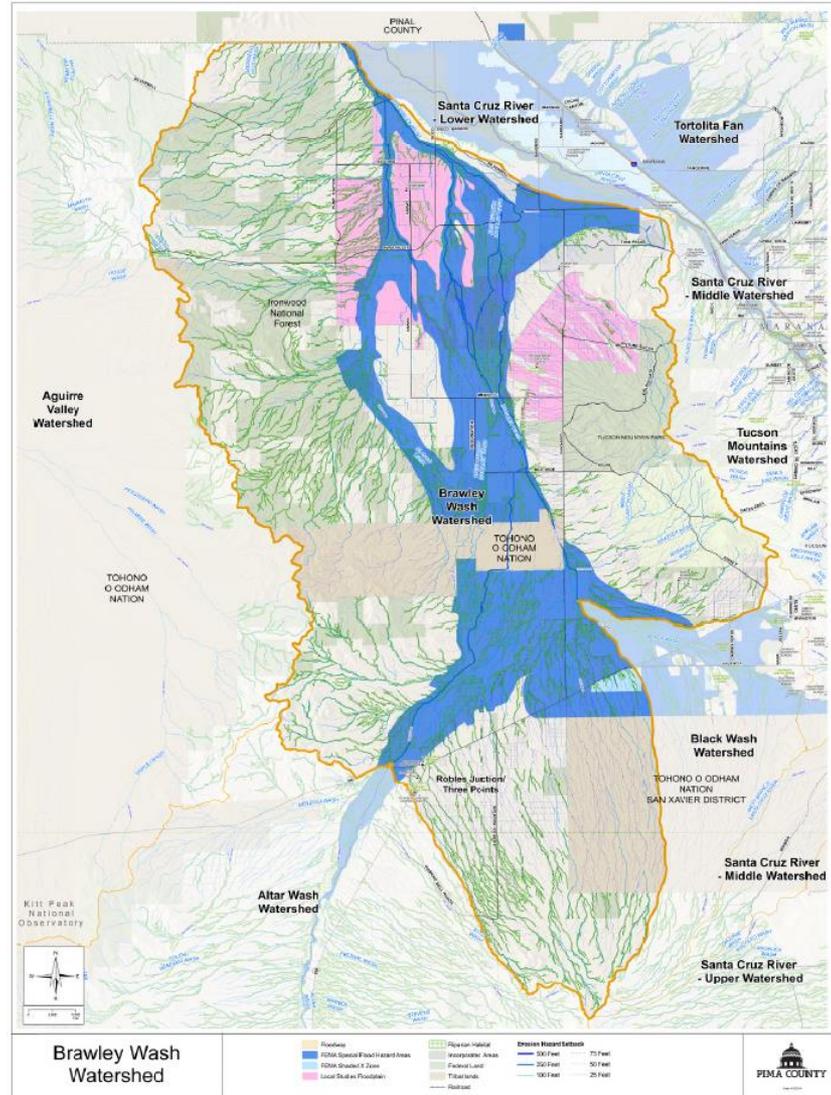
Members are asked to:

Review these maps with emphasis on areas you are concerned with and/or have specific knowledge of.

Share with the District and other stakeholders any comments or concerns regarding the existing information.

Provide additional relevant information regarding hazards which should be considered, and identify future hazard assessment projects that can be incorporated into the overall plan recommendations.

# Brawley Wash Watershed



# Discussion & Potential Future Hazard Assessment Recommendations

## Urban Area Region-wide recommendations:

- Fill in gaps with missing regulatory floodplains
- Perform detailed studies of approximate floodplains
- Correct spatial issues for riparian habitat
- Identify channel banks for application of EHSB
- ???

Prioritize any of these in specific locations.



# Next Step – Assess Flood Risk Exposure in Each Watershed

## In the Floodplain:

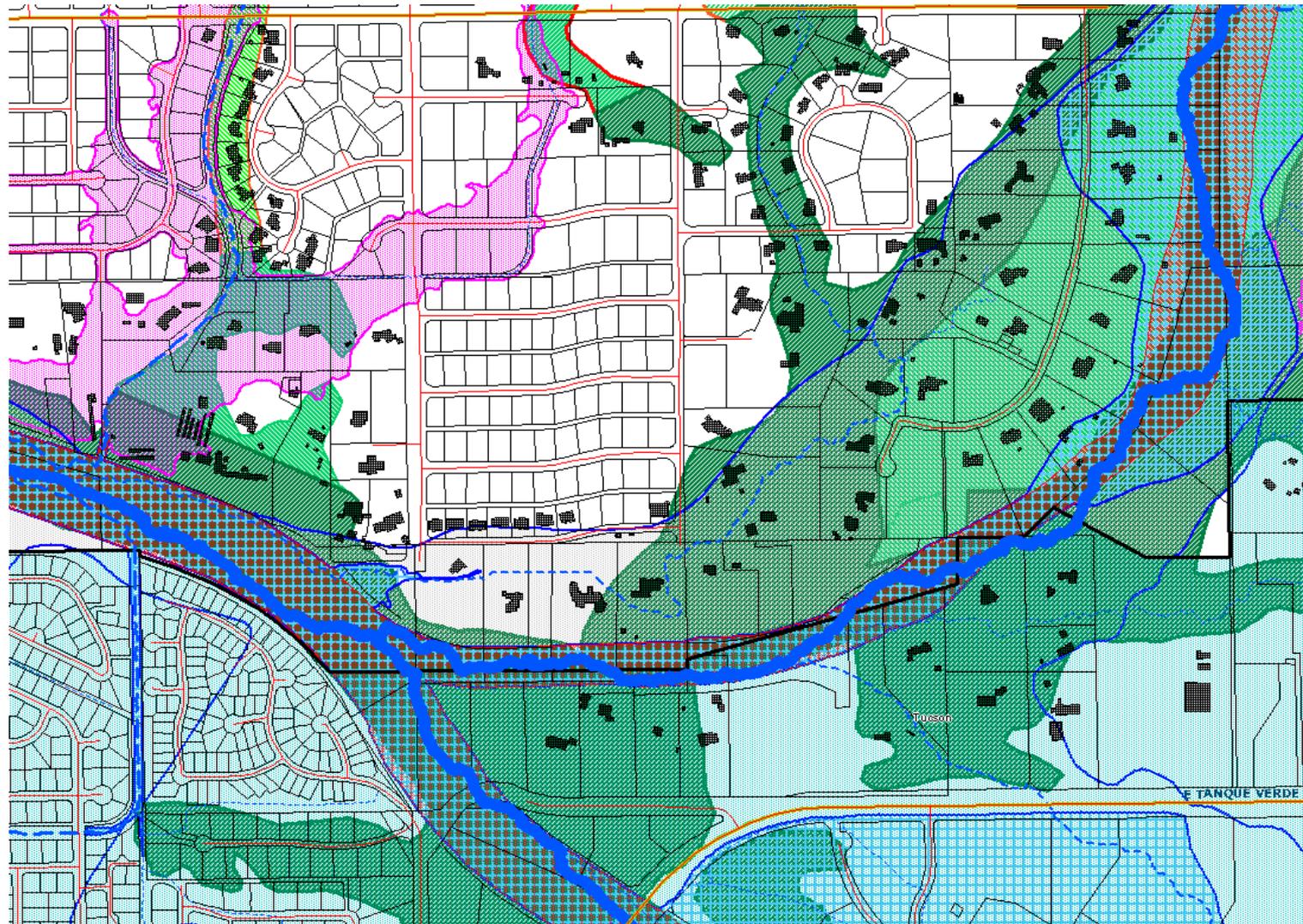
- Building Counts
- Critical Facilities
- Population
- Flood Insurance Claims
- Land Cover
- Land Ownership
- Zoning
- Land Use?
- ???

## In the Watershed:

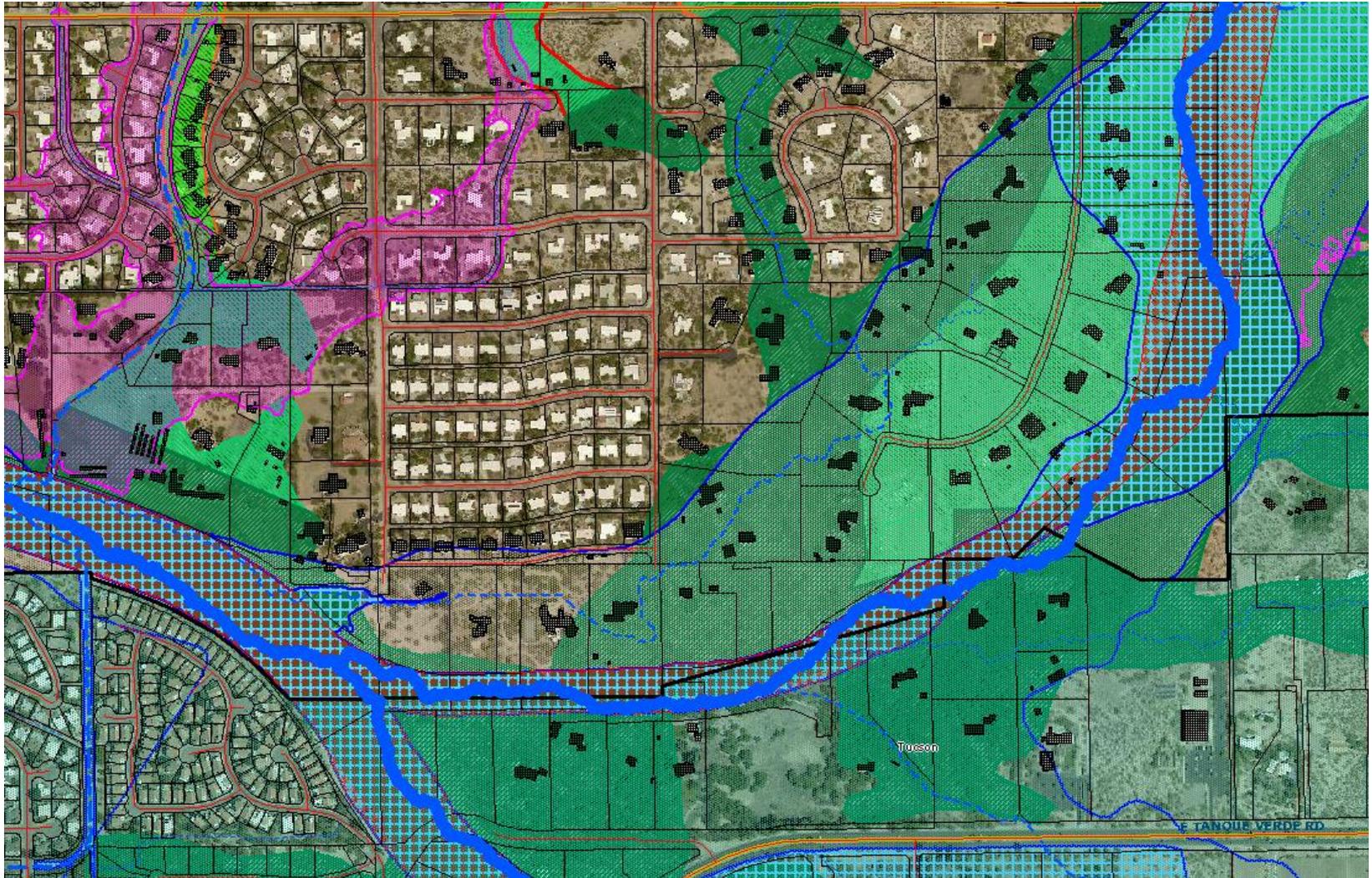
- Pima Prospers Flood Control Resource Area Acreage (Floodplains & Riparian Habitat)
- Population
- Flood Insurance Coverage vs Exposure
- Land Cover
- Land Ownership
- Land Use?
- ???

# Counting Buildings in the Floodplain

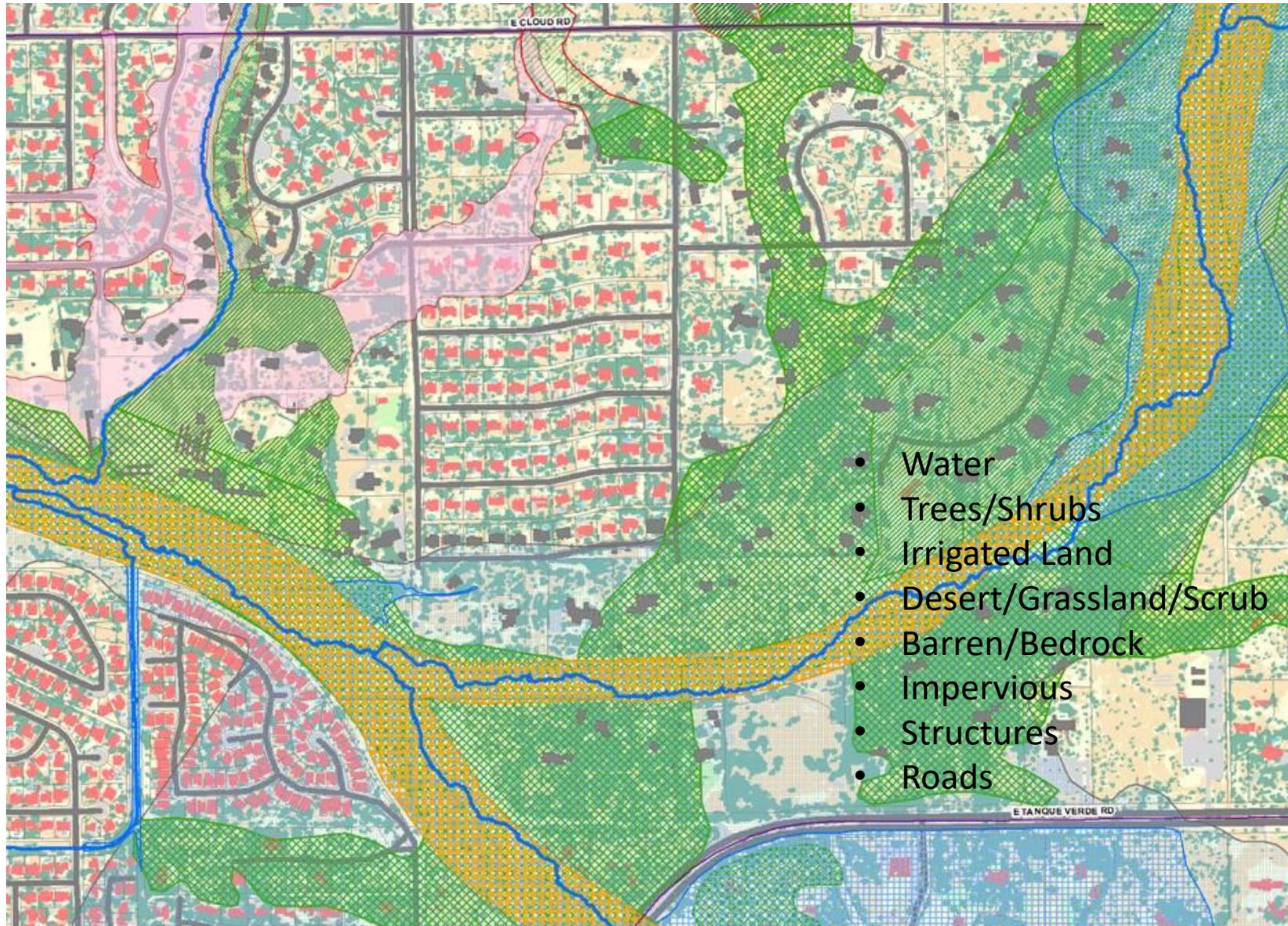
2010



# Keeping Data Up-to-Date Requires Interpretation from Aerial Photographs



# Land 2018 Cover Data Set



COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

CRS Program Data Table	A. In the SFHA	B. In a regulated floodplain outside the SFHA	C. In the rest of the community
1. Last report's number of buildings in the SFHA (bSF) (line 6, last report)	11,502		
2. Number of new buildings constructed since last report	+ 23	145	460
3. Number of buildings removed/demolished since last report	- 11		
4. Number of buildings affected by map revisions since last report (+ or -)	-178	+37	
5. Number of buildings affected by corporate limits changes (+ or -)	-323	- 15	
6. Current total number of buildings in the SFHA (bSF) (total lines 1-5)	11,017		
7. Number of substantial improvement/damage projects since last report		0	
8. Number of repetitive loss properties mitigated since last report	0		
9. Number of LOMRs and map revisions (not LOMAs) since last report	6		
10. Acreage of the SFHA (aSFHA) as of the last report (line 13, last report)	229,609		
11. Acreage of area(s) affected by map revisions since last report (+ or -)	-292	+1,679	
12. Acreage of area(s) affected by corporate limits changes (+ or -)	-532	-365	
13. Current acreage of the SFHA (aSFHA) (total lines 10-12)	228,785		
14. Primary source for building data: Permits			
15. Primary source for area data: PCGIS			
16. Period covered: October 1, 2106 - September 30, 2018		Current FIRM date 6/16/2011	
<i>If available, the following data would be useful:</i>			
17. Number of new manufactured homes installed since last report	3	30	60
18. Number of other new 1-4 family buildings constructed since last report	13	71	232
19. Number of all other buildings constructed/installed since last report	7	44	68

**Comments:**

*(Please note the number of the line to which the comment refers.)*

4. Number of buildings impacted by map revisions estimated using aerials.

17. Mobile home numbers do not include replacements.

# Wrap-Up

- Stakeholders to review hazard maps & identify additional hazards data.
- District staff will meet with stakeholder groups to review hazard maps.
- District staff will send mailer to businesses and residences located within floodplains.
- District staff will conduct GIS queries and prepare exposure assessment for next Planning Committee meeting (June 15?).



# Comments & Questions?

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[www.pima.gov/fmp/](http://www.pima.gov/fmp/)