NOTICE OF OPEN MEETING OF THE SAN ANTONIO REGIONAL FLOOD PLANNING GROUP

TECHNICAL SUBCOMMITTEE

Region 12
06/16/2025
3:30 PM

TAKE NOTICE that a meeting of the Technical Subcommittee of the San Antonio Regional Flood Planning Group as established by the Texas Water Development Board will be held on Monday, June 16, 2025, at 3:30 PM, in-person at the San Antonio River Authority, located at 100 E. Guenther St and virtually at https://meet.goto.com/877970733.

Agenda:

1. (3:30 PM) Roll Call
2. Public Comments – limit 3 minutes per person
3. Discussion and Appropriate Action to Recommend a Strategy to Identify Future Conditions using TWDB's Future Floodplain Data
4. Discussion and Appropriate Action to Recommend Goals for Cycle II
5. Public Comments – limit 3 minutes per person
6. Date and Potential Agenda Items for Next Meeting
7. Adjourn

If you wish to provide written comments prior to or after the meeting, please email your comments to khayes@sariverauthority.org or physically mail them to the attention of Kendall Hayes at San Antonio River Authority, 100 E. Guenther St., San Antonio, TX, 78204 and include "Region 12 San Antonio Regional Flood Planning Group Technical Subcommittee Meeting" in the subject line.

Additional information may be obtained from: Kendall Hayes, (210) 302-3641, khayes@sariverauthority.org, San Antonio River Authority, 100 E. Guenther St., San Antonio, TX, 78204.

Future Flood Hazard

1

TWDB Future Floodplain Data (2060)

Future flood conditions represent projected conditions 30 years into the future and assumes no change to current floodplain ordinances and development regulations.

Inputs:

- USGS Conterminous United States Land Cover Projections (July 2023)
- Latest DEMs (June 2023)
- Hydrography and bathymetry
- Spatially varying Manning's roughness
- Rainfall – IDC Atlas 14 (Pluvial); RFFA (Fluvial)
- Fluvial, Pluvial, Coastal

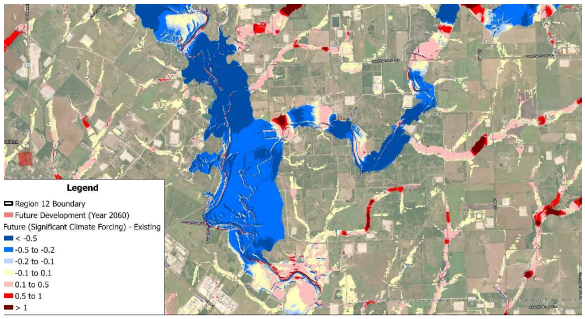
Scenario 1. Minimal future climate forcing (17th percentile "change factors" applied) with future subsidence and land use change
Scenario 2. Moderate future climate forcing (50th percentile "change factors" applied) with future subsidence and land use change
Scenario 3. Significant future climate forcing (83rd percentile "change factors" applied) with future subsidence and land use change
Scenario 4. Moderate future climate forcing only (50th percentile "change factors" applied) without future subsidence and land use change
Scenario 5. Present-day (existing Conditions)

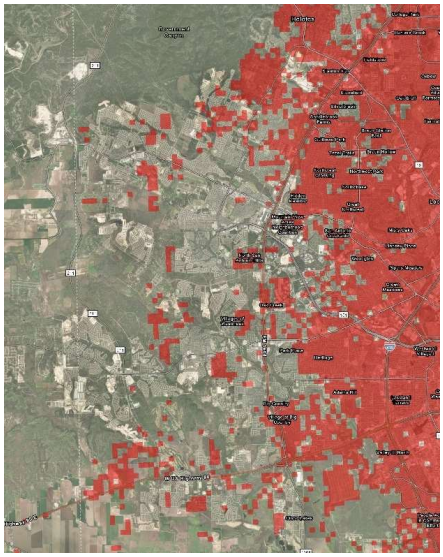
2

Comments to TWDB on 2060 Cursory Data

Inputs:

- Developed areas inconsistent with current development
- N-values inconsistent with current data
- Areas where existing is larger than future





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Round 1 Methodology

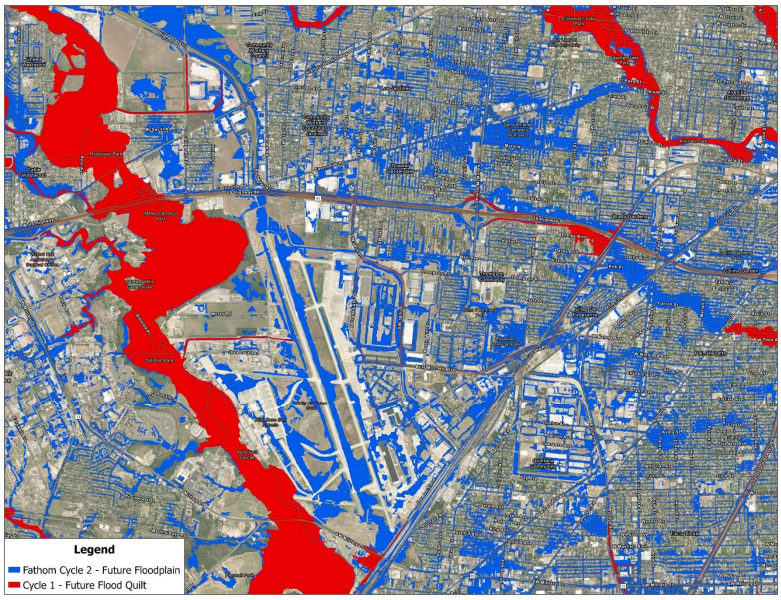
- SARA Effective models
- Tested increases in rainfall by 35%
- Reviewed top width and WSEL increases (Avg 139 ft total and 2 ft elev)
- Medina separated due to noticeable differences in WSEL and top width due to the steep side slopes

Final Criteria for the 0.2% Future Floodplain Buffer

Criteria	Type	Buffer (ft)
Location	Medina	40
	Upper	60
	Mid	75
	Coastal	80

4

Cursory Scenario 3 vs. Round 1 Future Floodplain



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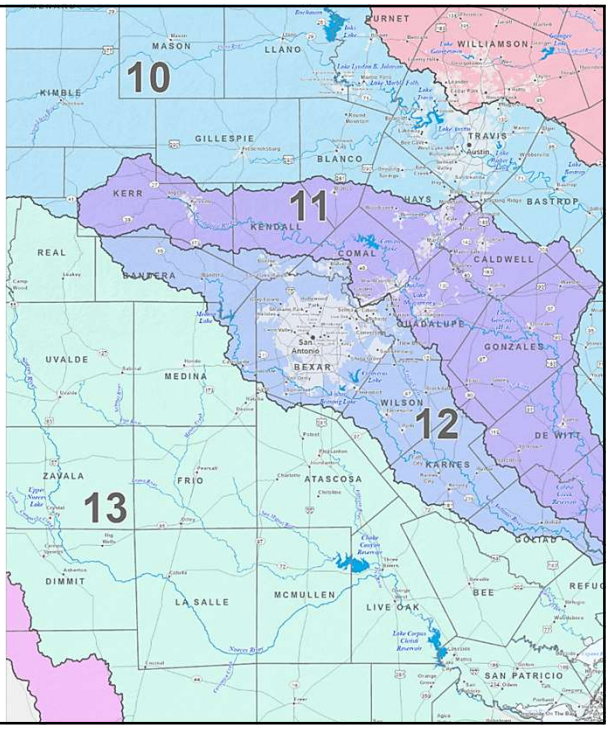
Goals

6

Goals

R10 Comparison

- Public Outreach:
  - Increase the number of public outreach and educational communications and activities conducted by the RFPG to improve awareness of flood hazards and the benefits of flood planning in the Flood Planning Region. Goal = 260 communications over the next two cycles.
- Higher Standards
- Measurement method
- Residual Risk
- Target goal = specific # or vague



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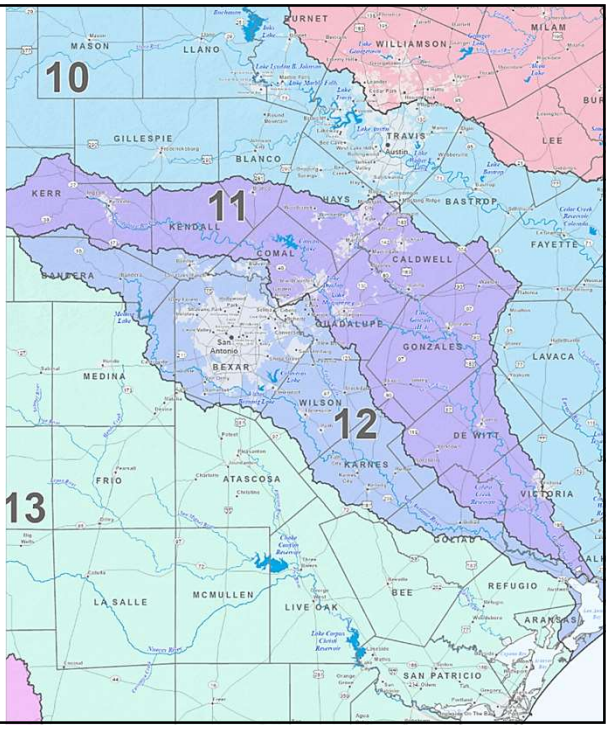
Goals

R11 Comparison

- Low water crossing signage
- Higher standards & CRS
- Funding
- Target goal = % change



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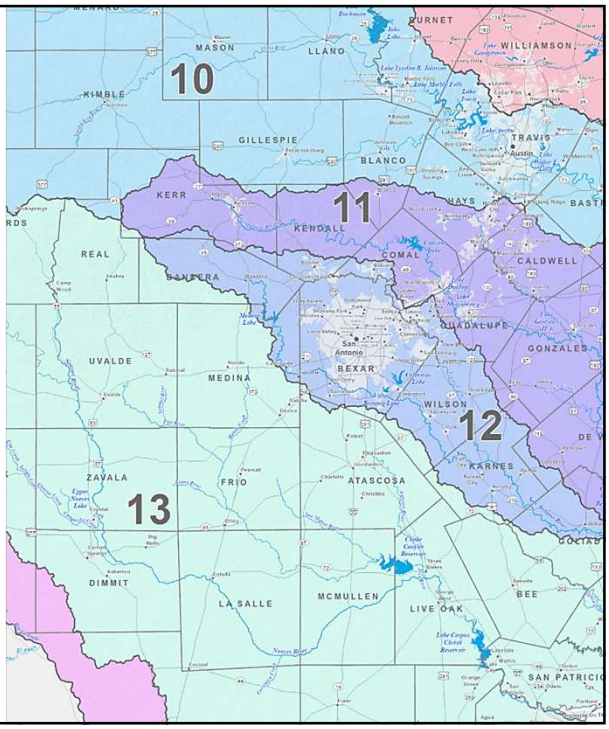
Goals

R13 Comparison

- 10yr, 30yr, Other
- Higher standards
- Funding
- Maintenance
- High Hazard Dams
- Target goal = % of region



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Goals

R15 Comparison

- Education Outreach
  - Increase the number of entities and public stakeholders participating in the regional flood planning process by 30% to 40%
- Critical access and evacuation routes
- Regional detention
- Increase the number of entities that have multi-year drainage CIP
- Target goal = % of region

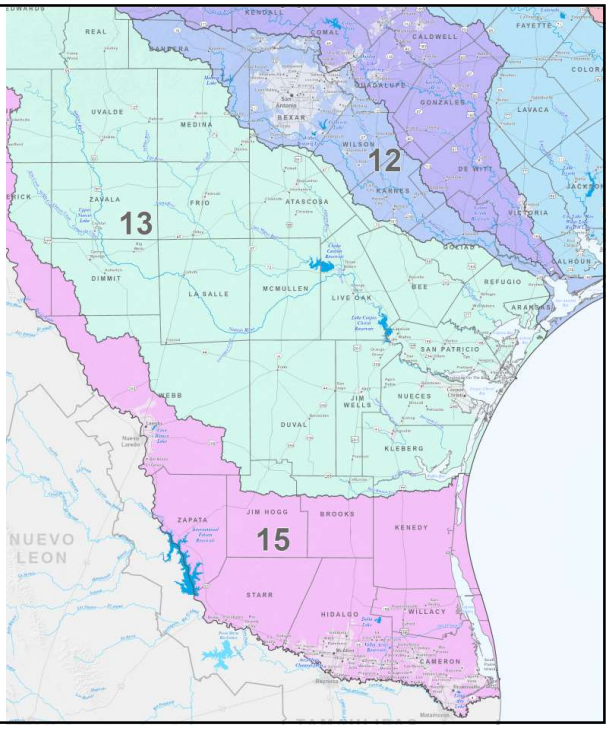

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Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Overarching Goal(s)	% Complete	Notes
12000001	12	San Antonio	Track and document existing public outreach and education activities that improve awareness of flood hazards and benefits of flood planning, including nature based solutions, in the region and ensure there are at least 6 additional occurrences per year.	Short Term (10 year)	Education and Outreach		Who is in charge of tracking this?
12000002	12	San Antonio	Increase to 12 per year and maintain and increase public outreach and education activities to improve awareness of flood hazards and benefits of flood planning including nature based solutions in the region.	Long Term (30 year)	Education and Outreach		
12000003	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA and provide certificates of completion. Improve 50% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions.	Short Term (10 year)	Education and Outreach		How do we track this and who is in charge of completing this?
12000004	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA and provide certificates of completion. Improve 100% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions.	Long Term (30 year)	Education and Outreach		
12000005	12	San Antonio	Support the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Short Term (10 year)	Flood Warning and Readiness		SARA to provide update on Flood Warning for the Region
12000006	12	San Antonio	Expand the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Long Term (30 year)	Flood Warning and Readiness		
12000007	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 25% of existing or at minimum 10.	Short Term (10 year)	Flood Warning and Readiness		Guages are an FME supported by SARA.

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Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Overarching Goal(s)	% Complete	Notes
12000008	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 50% of existing.	Long Term (30 year)	Flood Warning and Readiness		How do we make the date more accessable?
12000009	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Short Term (10 year)	Flood Warning and Readiness		
12000010	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Long Term (30 year)	Flood Warning and Readiness		Same Goal. Should we modify or just make this a 10 year goal.
12000011	12	San Antonio	Establish a baseline and increase the number of NFIP communities which utilize Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 50% percent. (region specific)	Short Term (10 year)	Flood Studies and Analysis		We can collect the data, but how do we increase the number of communites using?
12000012	12	San Antonio	Increase the number of NFIP communities which utilize/adopt Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 100%. (region specific)	Long Term (30 year)	Flood Studies and Analysis		
12000013	12	San Antonio	Decrease the number of Zone X by 30% and increase the number of entities that conduct detailed studies to update their local flood risk by 25%.	Short Term (10 year)	Flood Studies and Analysis		Are these numbers reasonable.?
12000014	12	San Antonio	Increase the number of entities that conduct detailed studies to update their local flood risk to 100%.	Long Term (30 year)	Flood Studies and Analysis		
12000015	12	San Antonio	Decrease the average age of FEMA Flood Insurance Rate Maps (NFHL/FIRMs/FIS) to less than 10 years.	Short Term (10 year)	Flood Studies and Analysis		We can collect this information with assistance from SARA.

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Overarching Goal(s)	% Complete	Notes
12000016	12	San Antonio	Establish a baseline number of existing studies and process for analyzing watersheds to identify existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements.	Short Term (10 year)	Flood Studies and Analysis		
12000021	12	San Antonio	Increase the number of entities above the established baseline that have adopted a holistic watershed approach using existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements for flood risk reduction as a basis for comprehensive subdivision regulations.	Short Term (10 year)	Flood Prevention		
12000017	12	San Antonio	Increase the number of participating Community Rating System (CRS) entities in the FPR by 5.	Short Term (10 year)	Flood Prevention		Are these number reasonable
12000018	12	San Antonio	Increase the number of participating entities within Community Rating System (CRS) in the FPR by 100% or improve their rating.	Long Term (30 year)	Flood Prevention		
12000019	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 10%.	Short Term (10 year)	Flood Prevention		Are these numbers reasonable? How do we increase these numbers?
12000020	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 50%.	Long Term (30 year)	Flood Prevention		

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Overarching Goal(s)	% Complete	Notes
12000022	12	San Antonio	Establish a baseline and increase the number of acres of publicly protected open space by 10 % as part of land conservation and acquisitions to reduce future impacts of flooding.	Short Term (10 year)	Non-Structural Flood Infrastructure Projects		Get with conservency to get the baseline - how do we increase this?
12000023	12	San Antonio	Increase the number of restored acres of publicly protected open space land in the region.	Long Term (30 year)	Non-Structural Flood Infrastructure Projects		
12000024	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 25%.	Short Term (10 year)	Non-Structural Flood Infrastructure Projects		These numbers do not seem reasonable.
12000025	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 75%.	Long Term (30 year)	Non-Structural Flood Infrastructure Projects		
12000026	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 10%.	Short Term (10 year)	Structural and Non-structural Flood Infrastructure Projects		These numbers do not seem reasonable.
12000027	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 50%.	Long Term (30 year)	Structural and Non-structural Flood Infrastructure Projects		

Table 11. Regional Flood Plan Flood Mitigation and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Overarching Goal(s)	% Complete	Notes
12000028	12	San Antonio	Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 50%.	Short Term (10 year)	Structural Flood Infrastructure Projects		Will provide a count on the number of Critical facicilites. This could be a potential FME for the entire region.
12000029	12	San Antonio	Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 100%.	Long Term (30 year)	Structural Flood Infrastructure Projects		
12000030	12	San Antonio	Identify the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Short Term (10 year)	Structural Flood Infrastructure Projects		Suggest Making this an FME for the entire region
12000031	12	San Antonio	Eliminate or mitigate the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Long Term (30 year)	Structural Flood Infrastructure Projects		Suggest making this a more reasonable number
12000032	12	San Antonio	Increase the number of structural projects by 10% that include a NBS or Green Infrastructure (GI) component.	Short Term (10 year)	Structural Flood Infrastructure Projects		How do we track this? Is this a reasonable number?
12000033	12	San Antonio	Increase the number of structural projects by 50% that include a NBS or Green Infrastructure (GI) component.	Long Term (30 year)	Structural Flood Infrastructure Projects		