



Region 11: Guadalupe Regional Flood Planning Group Meeting

Wednesday, September 21, 2022
4:30pm

Agenda Item 1

Call to Order

1. Attendance
2. Individuals attending in-person, please sign-in

Agenda Item 2

Welcome

Agenda Item 3

Presentation

Presentation: Overview of Regional Flood Planning Process and Draft Guadalupe Regional Flood Plan

Chairman Doug Miller and Jay Scanlon,
PE, CFM, ENV-SP | Freese & Nichols, Inc.



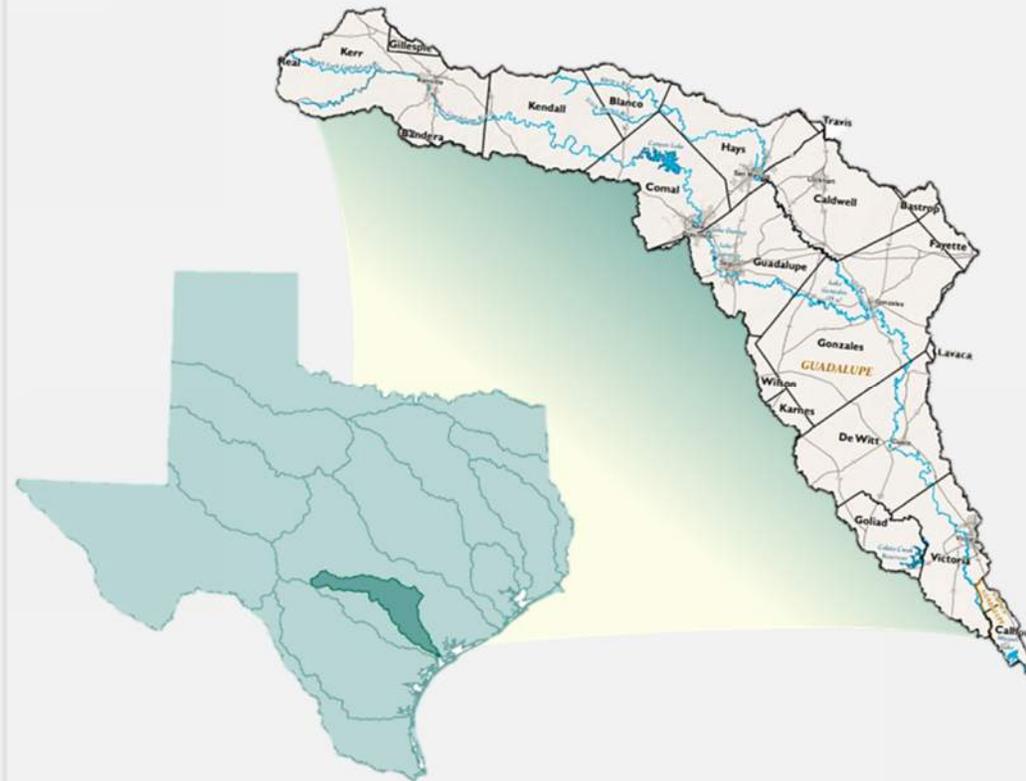
Region 11 Guadalupe

Regional Flood Planning Group Meeting
September 21, 2022

Item 3

Regional Flood Planning Overview

- **15 regional plans:** 1 plan for each watershed-based region, all rolled up into 1 state flood plan.
- **Bottom-up approach:** Groups governed by local, volunteer members.
- **Open Process:** Ample opportunities for public input at RFPG meetings, comment on plans, written comments.



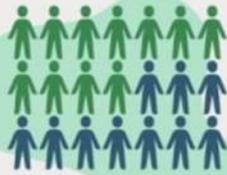
Who prepared the plan?

- The RFPG was responsible for developing this regional flood plan; however, the **implementation of specific recommendations and flood mitigation actions included in this plan will require action by local communities in the region.**

Interest Group	Member Name
Agricultural	Doug Miller
Counties	John Johnston, PE, CFM
Counties	Lon Shell
Electric Generating Utilities	Bobby Christmas
Environmental	Annalisa Peace
Flood Districts	Doug Sethness
Industries	Kevin Stone
Municipalities	Joe Pantalione, PE
Municipalities	Ken Gill, PE
Public	Kimberly Meitzen, PhD
River Authorities	Brian Perkins, PE
River Authorities	Ray Buck
Small Business	Gian Villarreal, PE, CFM
Water Districts	Ronald (Ron) Fieseler
Water Utilities	Steven Fonville
Non-Voting, Counties	Don Durden

618,874 People

2020 Population of the region



22 Counties

22 counties, or portions of them, make up the basin



21%

36 Major Disaster Declarations

36 major and 8 emergency declarations between 1953 and 2020, 21% occurring since 2000



42 Flood Events

42 major flood events since 1913 with significant losses to life and property

FEMA Flood Claims

(1975-Present)

6,248
Flood
Claims



\$261.7M
Flood
Claims
Paid



Task 1: Planning Area Description

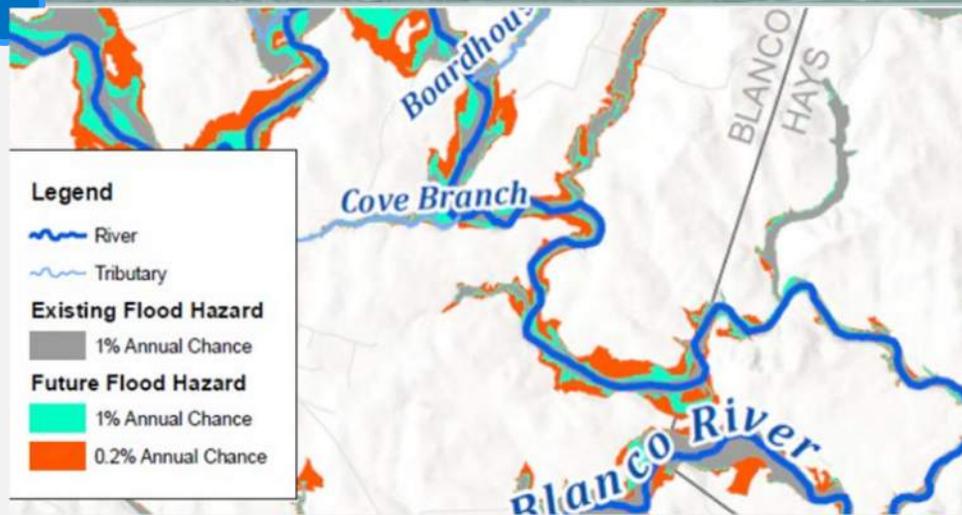
Existing Flood Infrastructure

Features	Region Counts	Features	Region Counts
Rivers, tributaries	6,851	Levees	10
Major lakes, reservoirs	7	Dams	220
Parks, preserves, natural areas	90	Pond structures \geq 1 acre	3,870
Wetlands and marshes	5,217	Local stormwater systems, including tunnels, canals	5
Caves, sinkholes, springs	1,956	Low-water crossings	815
Barriers, gates	1		



"I've experienced two significant floods... I suffer anxiety knowing there is no flood protection whatsoever, and I might receive no warning before the floodwaters enter my bedroom."

"I have lived on the Guadalupe River since I was 8 years old and have dealt with it's flooding for years, I'm 72 now. For the protection of our homes, animals, human lives, our businesses... we must improve things!"



Flood Hazard Frequency	Flood Hazard Area (in square miles)		Change (%)
	Existing	Future	
1%	986	1,169	18.6%
0.2%	183	215	17.5%
Total	1,169	1,384	18.4%

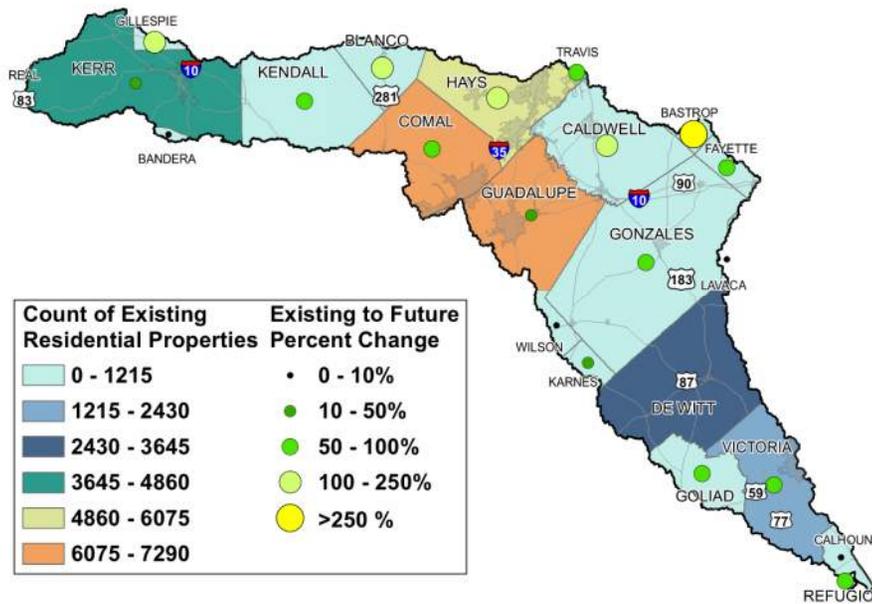
Task 2: Flood Risk Analyses

- Flood risks evaluated for current and future condition 1% and .2% annual chance flood events.
- Utilized best-available data
- Future condition based on 30-year no-action scenario

Task 2: Flood Risk Analyses

The RFPG conducted:

- Flood exposure analyses to identify who and what might be harmed from a flood event within the region; and
- Vulnerability analyses to identify vulnerabilities of communities and critical facilities



Total Structures	45,801
Structures: Residential	32,101
Structures: Non-Residential	13,700
Population	166,622
Critical Facilities	214
Roadway- Stream Crossings (count)	3,206
Roadway-Stream Crossings (miles)	1,379.5
Agricultural Land (sq. miles)	689.6



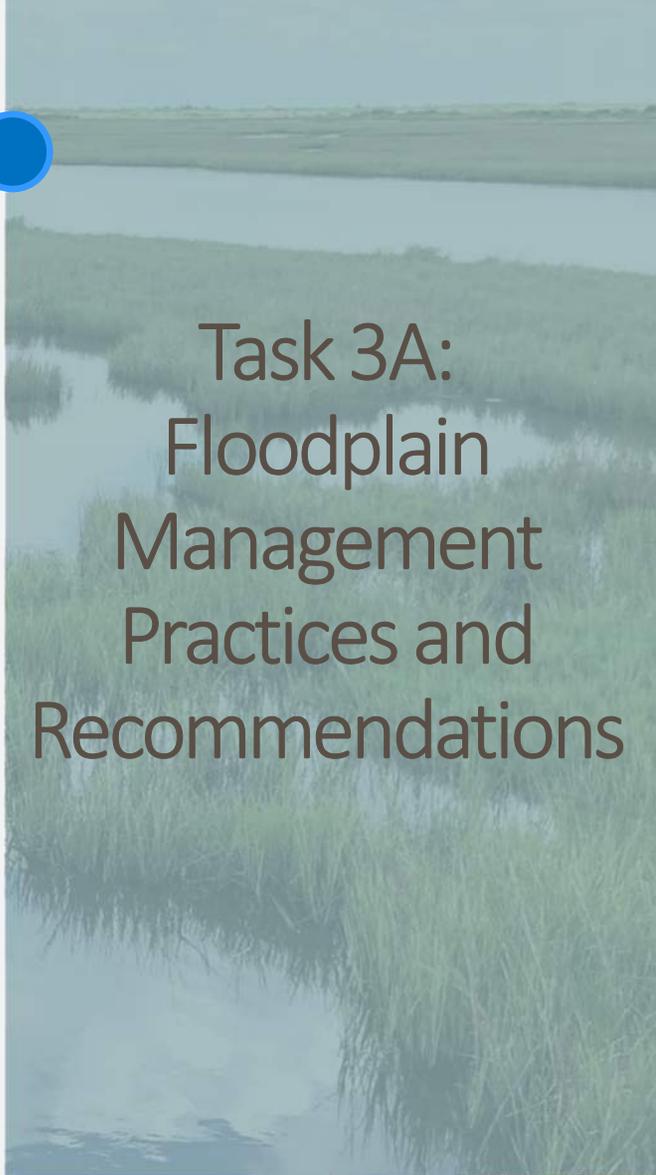
All 22 counties and 31 out of 32 eligible cities within the region are participants in the National Flood Insurance Program (NFIP).



Many communities only adopt minimum flood development standards and are not pro-active in their approach to floodplain development. Many counties are not aware of their authority to implement floodplain development standards higher than NFIP minimums.



The RFPG encourages local governments throughout the region to adopt higher standards and consider CRS participation.



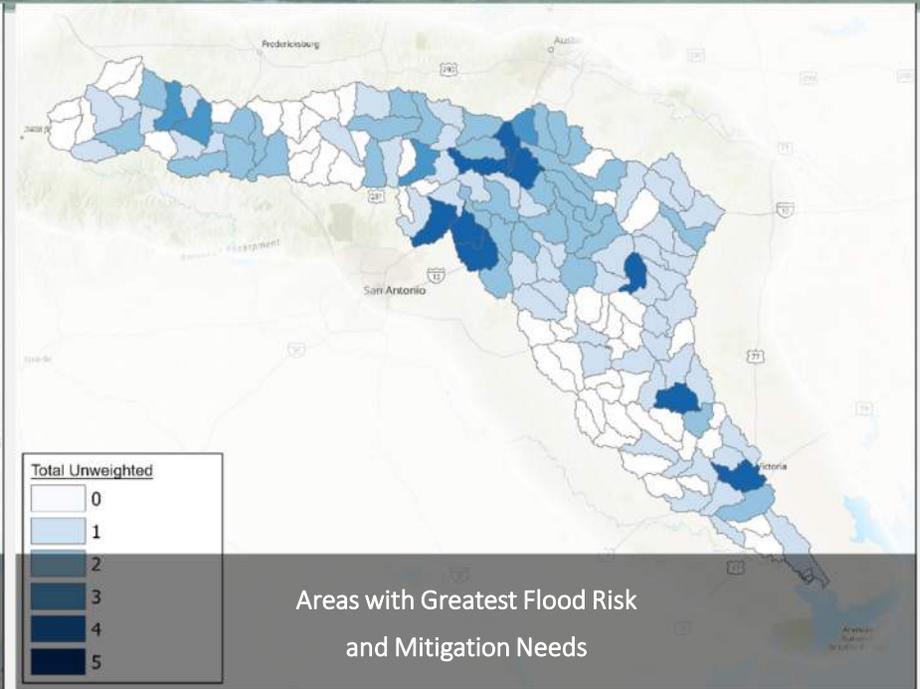
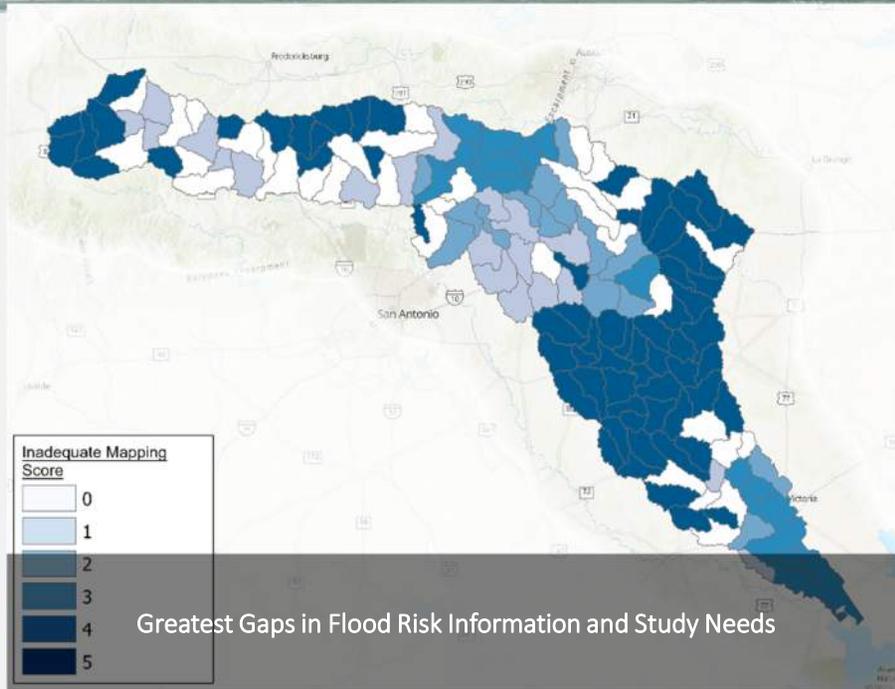
Task 3A: Floodplain Management Practices and Recommendations

Task 3B: Flood Protection Goals

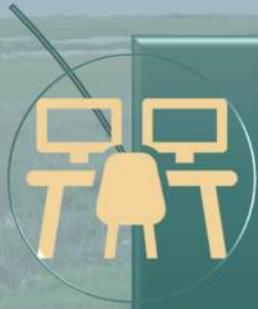
The RFPG adopted goals, related to six topics:

- improved low water crossing safety
- consideration of nature-based practices
- adoption of higher floodplain management standards
- participation in FEMA's Community Rating System
- reduction of structures at flood risk, and
- increasing local dedicated funding sources for flood-related infrastructure.





Task 4A: Needs Analysis



FME: an engineering study to:

define or update flood risk information

perform alternatives analysis, feasibility assessments, or preliminary engineering of project



FMP: a flood mitigation project, structural or non-structural, to reduce flood risk to people and property.

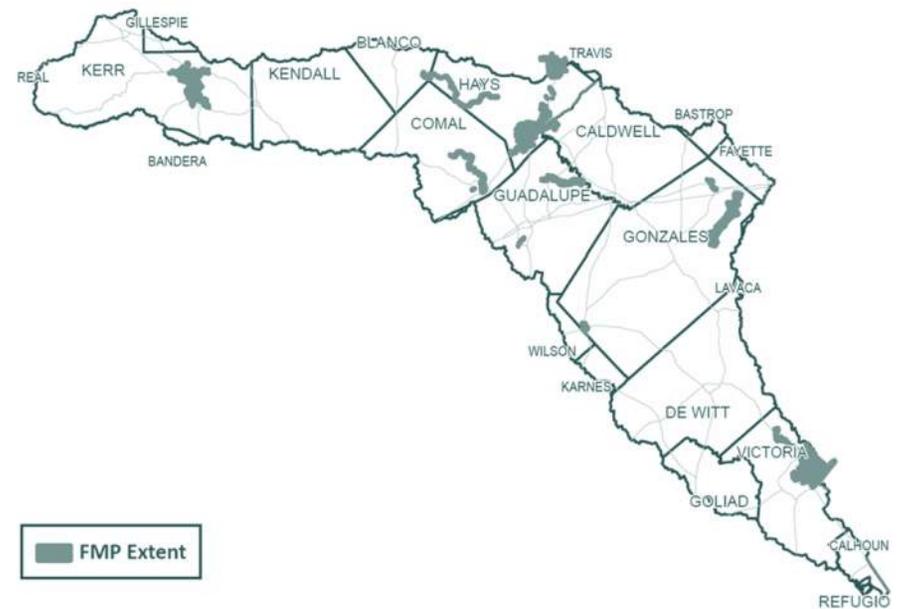
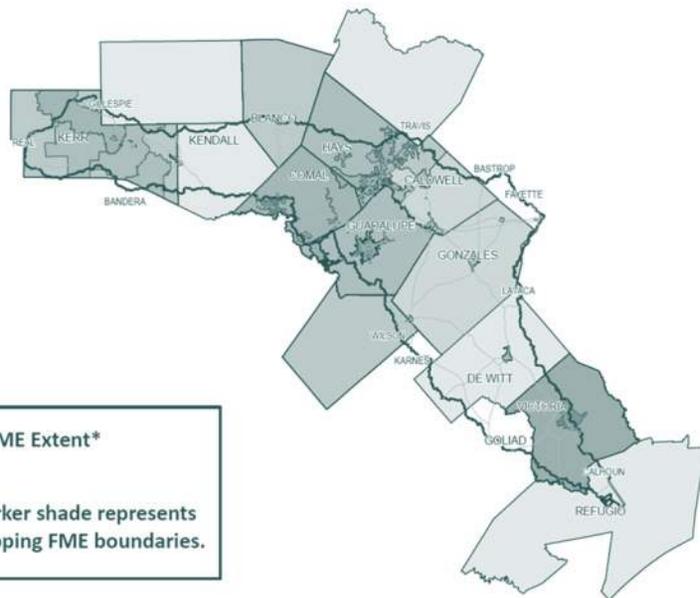


FMS: Anything that is not an FME (engineering study) or FMP (project). Examples include education campaigns, non-engineering studies on flood authority or revenue-raising opportunities

Task 4B/5: FMEs, FMSs, and FMPs

The Guadalupe RFPG recommends:

- 127 flood studies (FME)
- 32 flood projects (FMP), and
- 5 regional flood strategies (FMS).





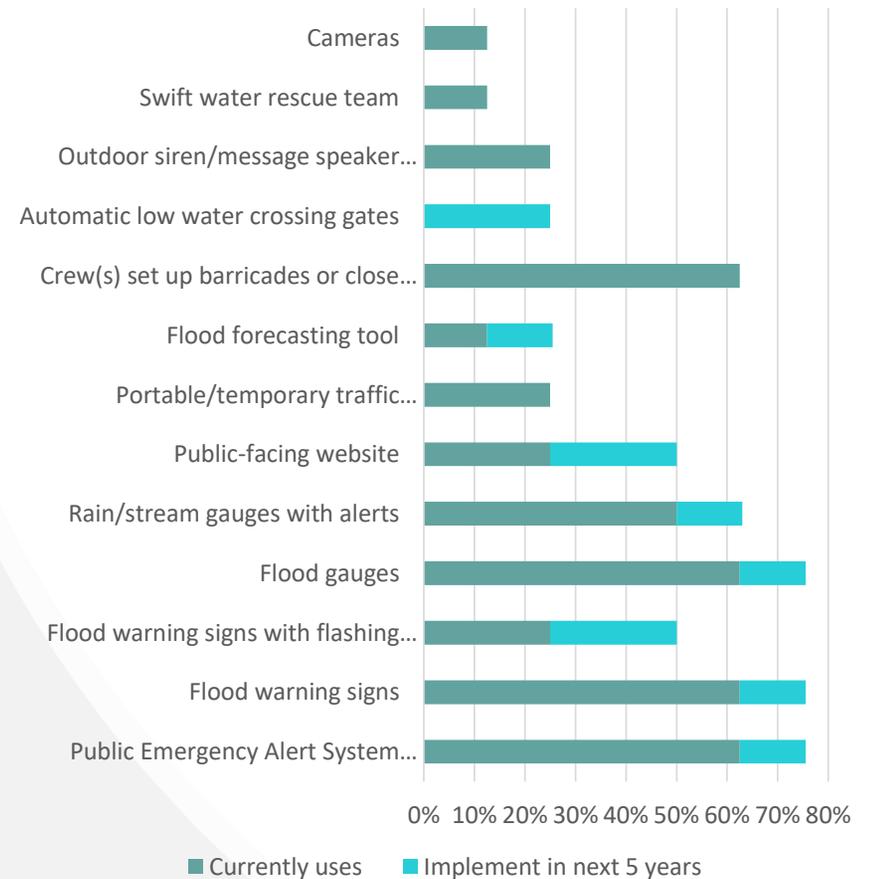
Task 6: Impacts of the Plan

- The recommended flood projects (FMP) would provide for the removal of 1,169 structures from flood risk, protecting approximately 1,864 people, and preventing 24 road closure occurrences.
- The flood studies (FME) recommended in this plan would provide updated data and information for the region and include planning activities for 87 future flood projects.
- The flood strategies (FMS) recommended in this plan would advance the region's capabilities and involvement in public outreach, floodplain management, and flood preparedness.

Task 7: Flood Response and Recovery

- The Guadalupe region's ability to prepare, respond, recover, and mitigate disaster events is determined by several factors. With a clear understanding of the plans that determine a community's capabilities, a recognition of the entities with whom coordination is key, and knowledge of the actions sustained to promote resiliency, the Guadalupe FPR can be better equipped to implement sound measures for flood mitigation and preparedness.

Flood Response Measures Utilized by Communities in Region 11





Task 8: Recommendations

The RFPG recommends 10 legislative, 12 administrative, and 3 regulatory recommendations.

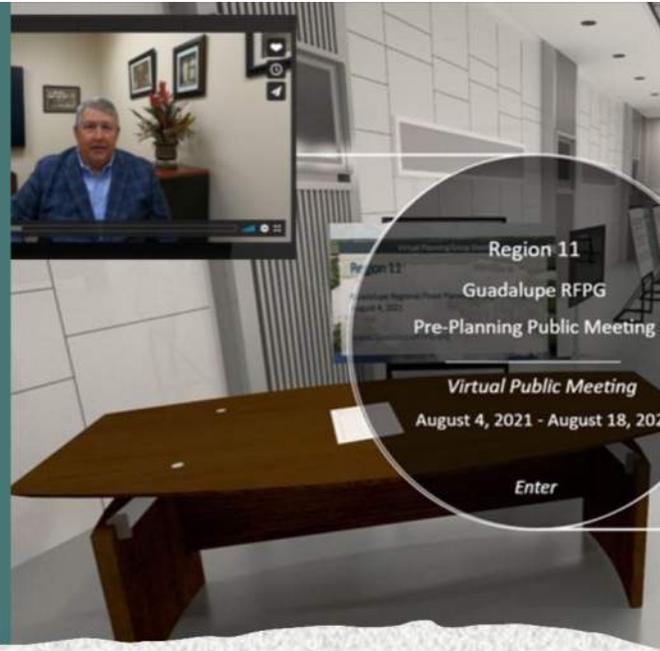


8.1.1: Continue recurring biennial appropriations to Flood Infrastructure Fund (FIF) for Study, Strategy, and Project implementation.



Task 9: Funding

- Overall, there is an estimated **\$782 million** needed to implement the recommended FMEs, FMSs, and FMPs in this regional flood plan.
- Of that amount, approximately **\$703 million** in state and federal funding is projected to be needed (89.8%).
- A combination of **increased local capabilities** to self-fund flood-related activities and projects and **increased funding from state and federal sources** are needed to address the flood risk reduction needs.
- Future cycles of regional flood planning will continue to identify more projects and studies needed to further flood mitigation efforts in the Guadalupe FPR.



Notice of Public Meeting

Region 11 - Guadalupe RFGP
Wednesday, October 6, 2021, at 2:00 PM
Guadalupe-Blanco River Authority River Annex
905 Nolan Street, Seguin, TX 7815

The Region 11 Guadalupe Regional Flood Planning Group will be holding this public meeting both virtually and in-person. There will be a focused discussion on **management practices, goals, and targets**.

The meeting agenda, materials, and details on how to attend or log into the meeting can be found at <http://guadalupefpg.org/Meetings.aspx>.

Public comments on this topic are encouraged. If you would like to provide comments and input into this part of the planning process, or if you want to request more information on the flood planning process, please send a note to: comments@guadalupeRFGP.org



Notice of Public Meeting

Region 11 - Guadalupe Flood Planning Group Meeting

When: Wednesday, June 29, 2022, at 1:00 PM
Where: Guadalupe-Blanco River Authority River Annex
905 Nolan Street
Seguin, TX 78155

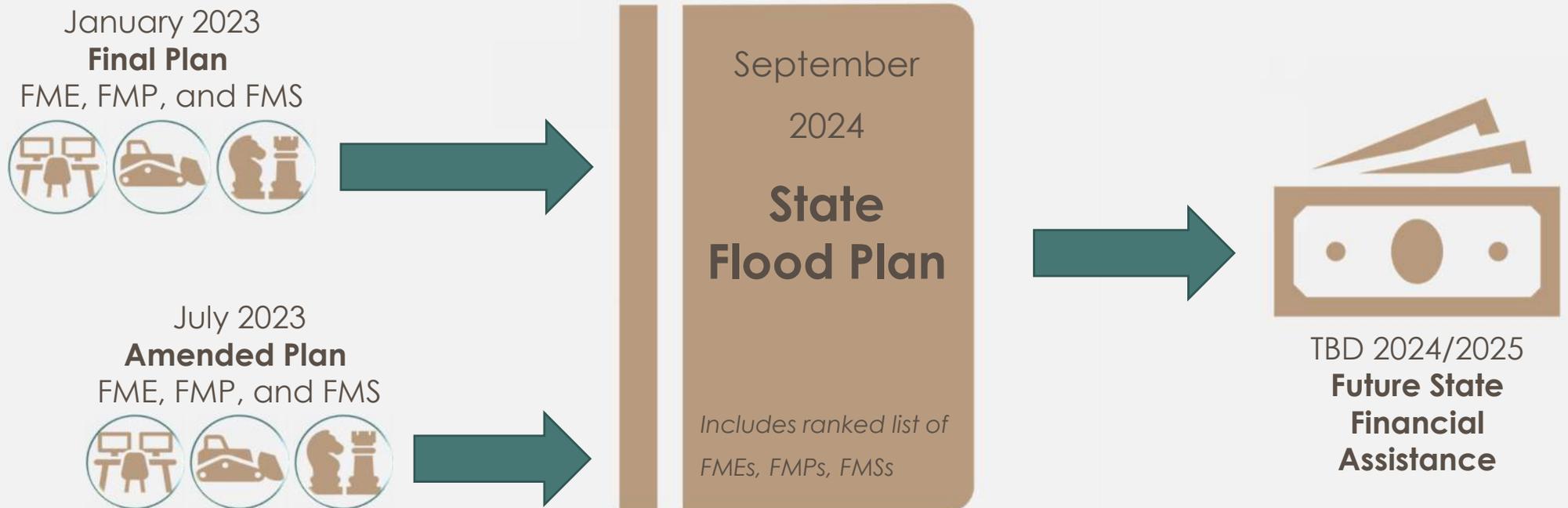
The Region 11 Guadalupe Regional Flood Planning Group will be holding this public meeting **in-person**. The meeting agenda, materials, and other details can be found at <http://guadalupefpg.org/Meetings.aspx>.

If you wish to provide written comments prior to or after the meeting, please email your comments to comments@guadalupefpg.org and include **"Meeting in the River Annex"**

Task 10: Public Participation

- 24 public meetings to date
- Public website - www.guadalupefpg.org
- Social media posts, eblasts, press releases, etc.

Looking Ahead: Amended Regional Flood Plan



Agenda Item 4

Public Input

The RFPG is soliciting public input regarding the Draft Region 11 Guadalupe Regional Flood Plan (as required per Texas Water Code §16.062(f) and 31 Texas Administrative Code §361.21(h)(3)(A,F))

An aerial photograph of a wetland area, showing a network of water channels and green vegetation. The water is a light blue-grey color, and the vegetation is a vibrant green. The background shows a hazy horizon line under a pale sky.

Public Input

The Regional Flood Planning Group is soliciting public input regarding the Draft Region 11 Guadalupe Regional Flood Plan (as required per Texas Water Code §16.062(f) and 31 Texas Administrative Code §361.21(h)(3) (A, F)).

Public Input (Item 4)

- Receive written and/or oral comments today
- Second Public Meeting September 21 (Victoria)
- Send Comments to: Comments@GuadalupeRFPG.org

Agenda Item 5

Public General Comments

Public Comments limited to 3 minutes per speaker

Agenda Item 6

Adjourn