



1. Call to order



2. Roll call

3. Approval of minutes

4. Acknowledgement of written comments received

5. TWDB update

6. Receive report – Nominating Committee

7. Consider filling Small Business seat

8. Consider filling Councils of Government seats

9. Consultant update



CONSULTANT UPDATE

- Introduction and overview, Chapter 1
- Introduction and overview, Chapter 2
 - Data collection tool and survey process demonstration
 - Interactive web map demonstration
- Introduction and overview, Chapter 3
 - Flood mitigation and floodplain management goals
- Public outreach updates
 - Public outreach overview
 - Website
- Introduction and overview of Chapter 8



May-July

Kick Off
Data Collection
Public Engagement
Begin Ch. 1, 2 & 3
Discuss Goal Setting



Sept.-Oct.

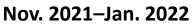
Finalize Ch. 1, 2 & 3 Prepare Ch. 4 & Tech Memo

Preparing the Technical Memo

Complete Data Collection
Establish Goals
Present Regional Flood Map
Prepare Ch. 1, 2 & 3
Begin Ch. 4



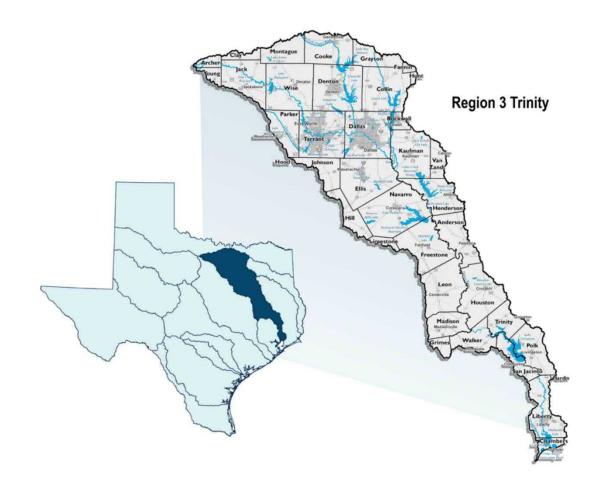
Finalize Ch. 4 & Tech Memo Submit Tech Memo to TWDB





TRINITY REGION, BY THE NUMBERS

- 38 COUNTIES
- 18,000 SQUARE MILES
- ~20% within the 1% annual chance flood event







584

Flood Claims

\$517.8 M

Flood Claims Paid

ANTICIPATED POPULATION GROWTH

67%

forecasted increase in population between 2020 and 2050

AGRICULTURAL FLOOD LOSSES

Significant historical flood losses, most recently 2015 and 2016

FLOOD-RELATED PRESIDENTIAL DISASTER DECLARATIONS (1953 – MAR 2020)

40

Major Disaster Declarations

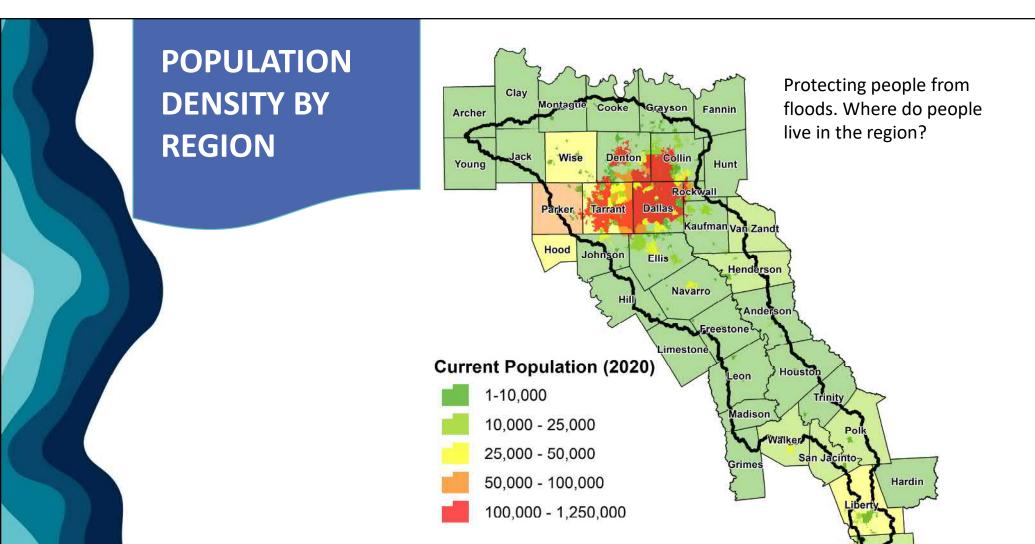
5

Emergency Declarations

25% of Disaster Declarations and 40% of Emergency Declarations have occurred within the region since 2008

FLOOD EVENTS (1996-2019)

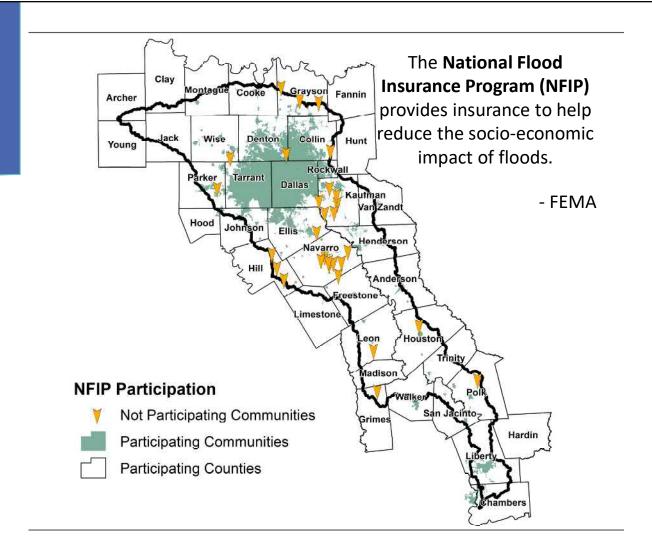
Over 150 major flood events have occurred in the last 20 years with significant losses to life and property.



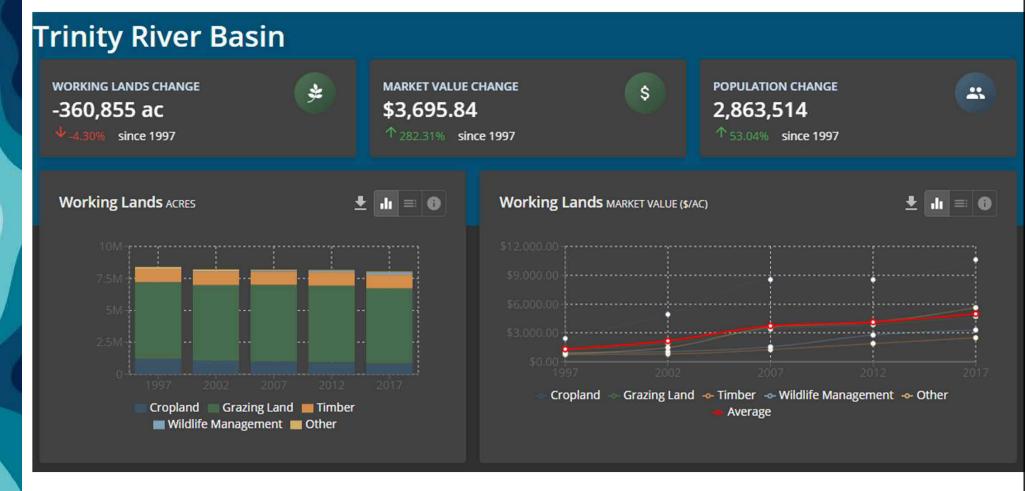
NFIP Participation

87%

of Counties
Participating
in NFIP



AGRICULTURAL, RANCHING AND NATURAL AREAS MANAGEMENT



COLLECT DATA

Floodplain Ordinances

Building Standards

Design Standards

Development Standards Zoning

Land Use

Protection Policies

National Flood Insurance Program Participation **Funding Mechanisms**

Programmed O&M

Programmed Inspections

Asset Inventories & Condition
Assessments

Entity	Floodplain management regulations	Adopted minimum regulations	NFIP Participant	Higher Standards Adopted	Floodplain Management Practices	Level of enforcement of practices	Existing Stormwater or Drainage Fee
County 1	Yes	Yes	Yes	No	Moderate	Moderate	Yes
City 1	No	No	No	No	Low	Low	No
Special Purpose District	Unknown	No	No	No	None	None	No

Template from TWDB – Exhibit C



CHAPTER 2 Flood Risk Assessment

Task 2 - Purpose

Flood Risk Mapping

Flood Exposure Estimation

Vulnerability Assessment



Exposure

Task 2A – Existing Conditions Flood Risk Assessment

FLOOD TYPE

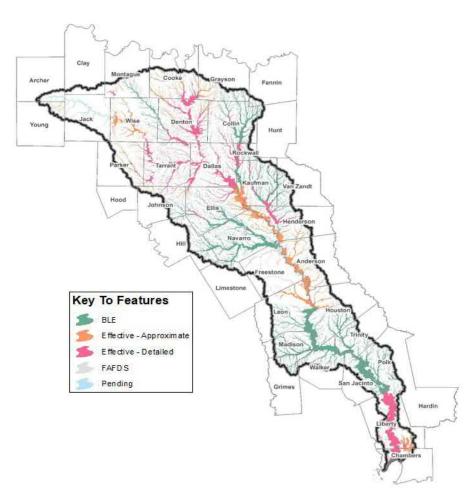
- Riverine
- Coastal
- Dams and Levee
- Possible Flood-prone Areas
- Pluvial including Urban flooding

FLOOD EVENT TYPES

- 100-Year
- 500-Year
- Other

DATA SOURCES

- TWDB Flood Quilt
- Community Data
- FATHOM



Source - TWDB

Task 2A – Existing Conditions Flood Risk Assessment

INVENTORY

Buildings



Population

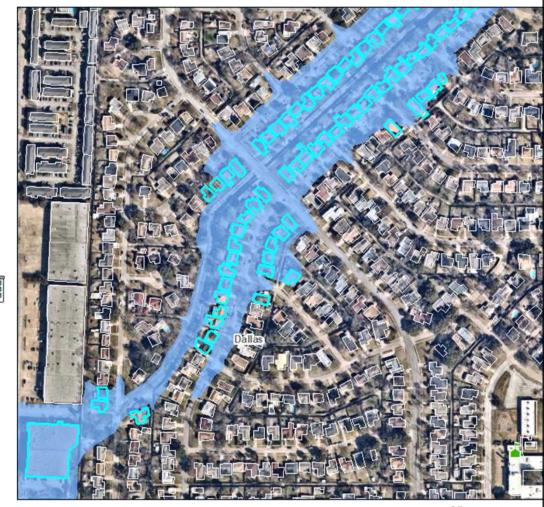


• Critical Facilities

• Utilities 🌋



• Agriculture



Task 2A – Existing Conditions Flood Risk Assessment

Social Impacts Socioeconomic Status

Household

Composition & Disability

Minority Status & Language

Housing Type & Transportation **Below Poverty**

Unemployed

Income

No High School Diploma

Aged 65 or Older

Aged 17 or Younger

Older than Age 5 with a Disability

Single-Parent Households

Minority

Speaks English "Less than Well"

Multi-Unit Structures

Mobile Homes

Crowding

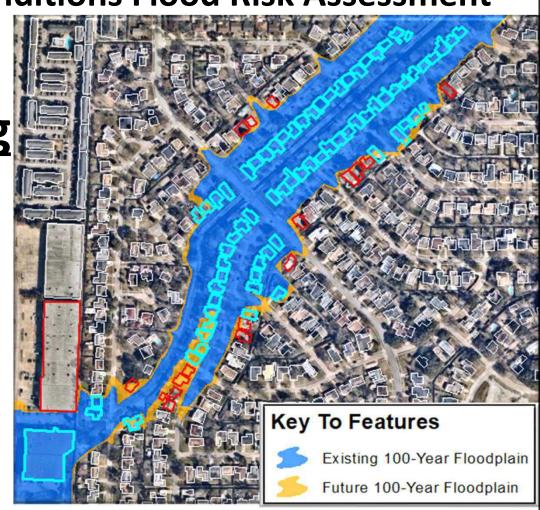
No Vehicle

Group Quarters

Task 2B — Future Conditions Flood Risk Assessment

Future Mapping

- FEMA
- Community Data
- Machine Learning
- Regional Deltas
- TWDB Estimates



DATA COLLECTION

Data Collection Website

Trinity.halff.com

Communi

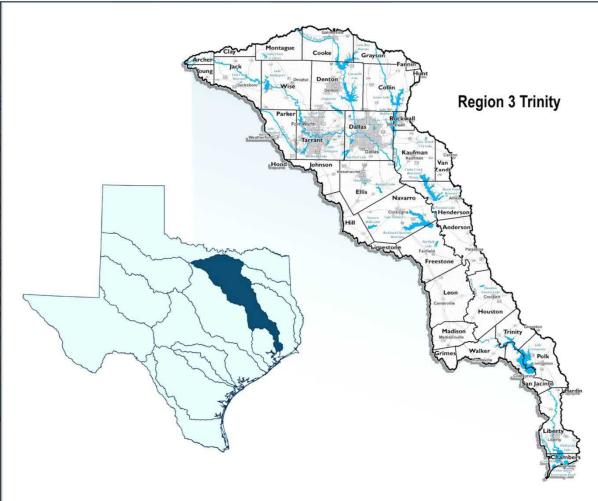
Community Stake individuals with flo and Community of regional, and local

By logging on with provided, you can knowledge of flood of flood risk data. requesting commu

- Provide information flood-related
- Verify collection
 specific back
- Respond to o regional floor
- Verify and prand web man

The RFPG appreci and provide with t to provide respons

Entity Login



blic?

process include general public tions including non-profit and with an interest in providing nning efforts.

and email address, you can ized knowledge of flood prone gation is needed. Your contact who is providing information in tions.

30

Data Collection Website

Trinity.halff.com

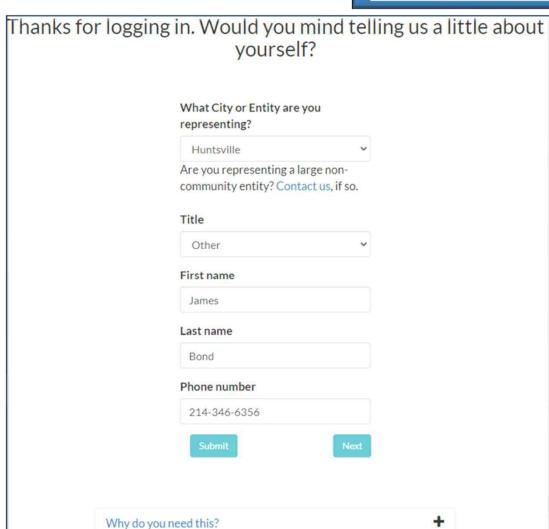
Regional Flood Plan Development Log in - Trinity Basin Use your email address and the password provided during the webinar to log in. By logging on with your email address and the password provided, you can help provide the RFPGs with localized knowledge of flood planning resources and validate a wide array of flood risk data. Information such as condition and functionality of flood prone samoako-atta@halff.com infrastructure, mitigation or strategic development plans, proposed flood control Email projects, areas of key population change or growth, etc. is needed. ************* Password No password? Please email us and we'll help get things sorted out. © 2021 - Halff Associates Issues with this site or just have a question? Email us

Your Info

Data Collection Website

Trinity.halff.com





Backgrounder

Data Collection Website

Trinity.halff.com



Community Background			
The following is publically available information about your community with update it with any additional data yo			
Information	What We Found	Corrected Information, if any	
NFIP Participant: (Source: FEMA)	1	Yes 🔻	
Population 2020: (Source: TWDB Water Plan)		0	
Projected Population 2050: (Source: TWDB Water Plan)	17947	0	
CRS Rating: (Source: FEMA)	N/A	N/A	
Latest FEMA Map Date: (Source: FEMA Community Status Book)	7/7/2014	What is it?	
Critical Facilities: (Source: TWDB)	7	A whole number	
Total Stream Miles in Community (Source: FEMA)	3	3	
Number of Letters of Map Revisions: (Source: NFHL)	2	0	
Stormwater Utility or Drainage Fee: (Source: Western Kentucky 2020)	1	Yes 🔻	
Percent of Community in 100 Year or 500 Year Floodplain: (Source: NFHL)	3%	0	
The RFPG is maintaining a contact list for the region. Please provide names an emails for additional people within your organization that have flood-related responsibilities.	d		
CEO (Mayor or Judge):		Who is it?	
Flood Administrator:		Who is it?	
Additional Contact 1(Flood Planning, Emergency Coordination, Digital Flood Files):	1	Who is it?	
Additional Contact 2(Flood Planning, Emergency Coordination, Digital Flood Files):	ı	Who is it?	



Data Collection Website

Trinity.halff.com

Welcome

Your Info

Backgrounder

Community Questionnaire

Floodplain

Management/Ordinances

Flood History

Floodplain Studies/Maps

Risk Reduction Alternatives

Flood Finance

Natural Resources & Condition Changes

Hazard Mitigation & Emergency Planning

Existing Infrastructure

Levees/Dams

Storm Drainage Systems

Roadways

Coastal

Critical Infrastructure

Community Questionnaire for: Addison

Thank you for your willingness to participate in this online data collection effort as part of the first-ever State Flood Plan for Texas. We invite you to share information to advance the regional plan development. It is not necessary to complete the entire survey when you first sign in. The survey is developed to allow the user to provide input incrementally over time. Feel free to complete one section at a time or you also have the option of assigning a section of the survey to a colleague to assist you with the input. If you need have any trouble, technical issues or wish to coordinate directly with us, email us.

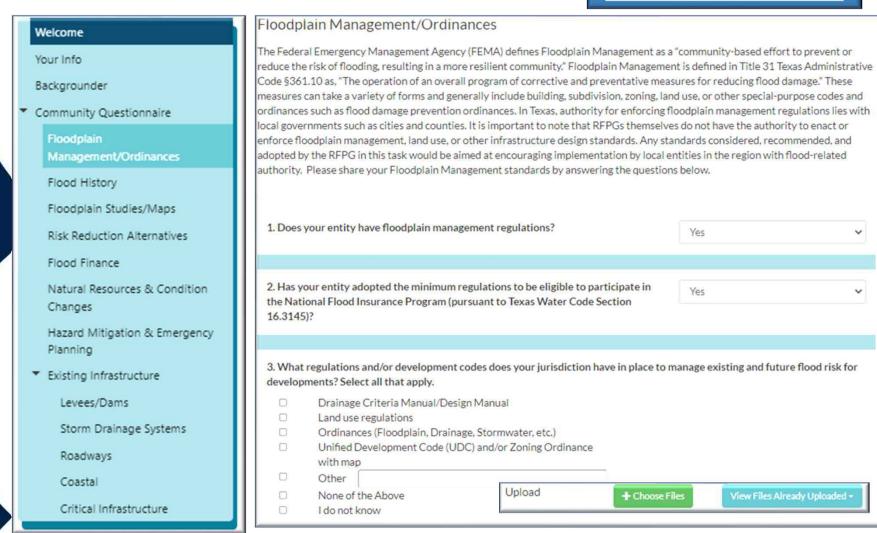
This survey has over 90 questions and could take about 30 minutes, however depending on how much data you upload and add to the interactive maps, it may take more time. As you navigate through this questionnaire, you will find various questions and data requests related to the topics listed in the navigation panel to the left. The navigation panel to the left may also be used to advance to different sections and go back to sections as needed.

The questionnaire is comprised of questions, data upload requests, and interactive maps as described below.

- Questions: The types of questions you encounter include selection of a single item from a drop-down
 list, selection of multiple items using check boxes, or text responses. For the text responses, you are
 able to enter as many items as appropriate up to 2000 characters.
- Data Uploads: Several sections have options to upload files such as regulations, reports, studies, shapefiles, geodatabases, land planning data, etc. In these locations, you may upload more than one file. Please note you will need to press the start button to submit each file in our system.
- Interactive Maps: There are nine interactive maps tied to the questionnaire regarding flood history, floodplain studies/maps, risk reduction alternatives, natural resources & condition changes, levees/dams, storm drainage systems, roadways, coastal, and critical infrastructure. Once you click the button to open a map, an interactive web map of the region will open in a separate tab in your browser. Additions and edits are saved automatically, so you are welcome to enter and exit the maps as needed.

Data Collection Website

Trinity.halff.com



Community Questionnaire

Data Collection Website

Trinity.halff.com

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Community Questionnaire for: Addison

You may continue to edit and save your edits at the bottom of the page. If needed, use the navigation panel on the left to change categories.

Levees/Dams

As displayed in the map to the right, the region's database was populated with available information as identified below. Where overlap occurred, the data sources were reviewed and amended to only include a single inventory per location.

Available Data Sources:

- · Dams: USACE National Inventory of Dams, TSSWCB Local Dams Listing, TCEQ Inventory of Texas Dams, TWDB Major Reservoirs, and NHD Lakes
- Levees: USACE National Levee Database and FEMA Levee Inventory

You may preview the populated datasets using the inset map on this page.

If you would like to add, remove, or edit these features, it would be best to provide input using a web mapping feature by clicking the link below. You are welcome to skip questions, but we greatly appreciate any information you are able to provide.



Go to map [1]



2018 State Flood Assessment

Key Takeaways

National Flood Insurance Program Claims 1976-2018



2018 State Flood Assessment Key Takeaways

Question: Which of the following is used to define flood risk in your jurisdiction?

Flood Insurance Rate Maps

Locally created floodplain maps

Master drainage plan Question: Which of the following accurately describes your community's flood risk maps?

Riverine % flooding only.

No low-lying areas or streets

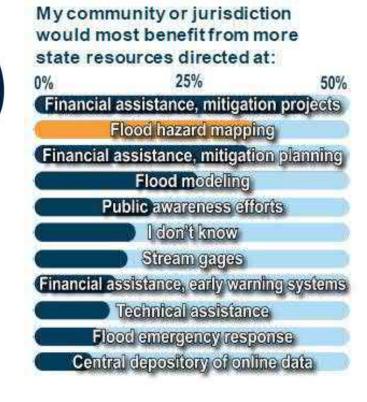
Lack studies needed to create better maps

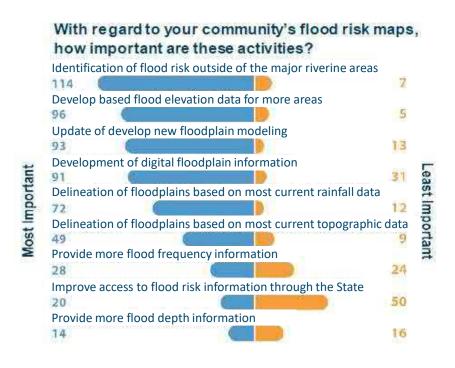
Old, outdated maps

Recently Vupdated our flood risk maps

2018 State Flood Assessment

Key Takeaways





Standards vs. Goals

Standards

Establish consistent protocols for floodplain management that can be universally applied

Examples:

Water surface elevation – Streets

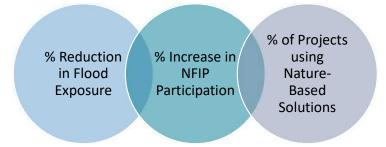
Structural Elevation relative to Floodplain

Stormwater Peak Flow Capacity

Goals

Set specific timelines and goalposts to implement proven flood mitigation measures, reducing future risk for people and property.

Examples:



Must be measurable and have a timeframe!



Standards: Recommend or Adopt?

Recommend means just that – all FMEs, FMSs and FMPs can be considered

Adopt means that if RFPG establishes a standard, then the jurisdiction must meet that standard BEFORE the FME, FMS or FMP can be considered for inclusion in the plan

Timeframe for Floodplain Management Standards

June - July



Collecting Standards in Survey



Summarize Common Themes in Standards August



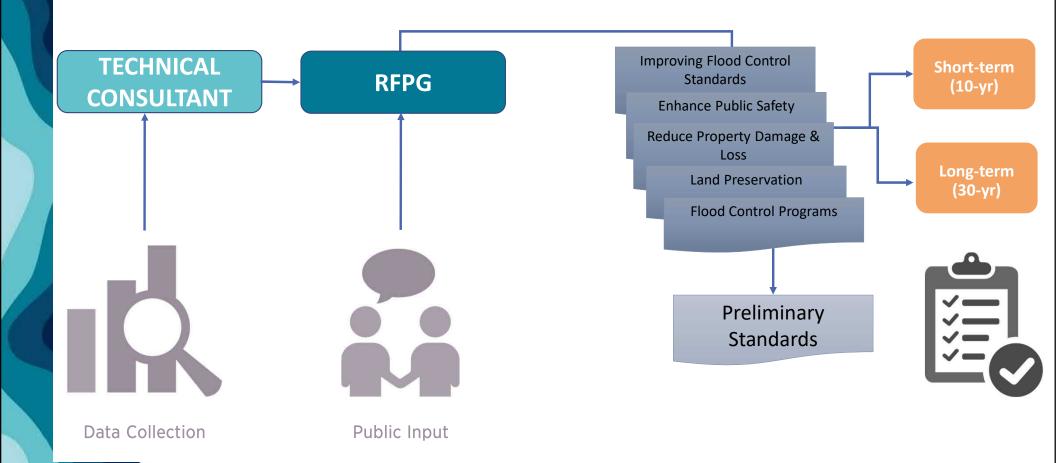
Bring These To RFPG For Discussion

Sept



RFPG - Consider Taking Action on Region-wide Standards

Goal Setting Process



TWDB Guidance - The Givens

What does TWDB hope to achieve with this plan?



Goals Must Be:



Specific & Achievable



Reduce Residual Risk



Recommended or Required



Short-term (10 years) &/or Long-Term (30 years)



Regionwide Or Subregional

POLL EVERYWHERE

We will be using remote audience engagement tool **Poll Everywhere** during today's meeting. Please participate using one of the following methods:

Please choose one word that describes your top priority for the Regional Flood Planning Effort.

Improving Flood Control Standards

- A) Local Floodplain ordinance that meets the NFIP standards
 - B) Participation in NFIP Program
- C) Standards greater than NFIP
 - D) Regulation to future flood conditions

Enhancing public safety

- A) Improving Low Water Crossings
 - B) Installing Flood warning systems
- C) Reducing the number of flood related injuries
 - D) Reducing the number of flood related deaths

Reducing Property Damage and Loss

- A) Avoiding new development in floodprone areas
 - B) Reducing flood risk to existing structures
- C) Reducing flood risk to agricultural and ranching areas

Land Protection

- A) Protection of Natural Areas
- B) Reducing flood-related loss of natural and cultural resources
 - C) Preservation of Floodplains
- D) Use of nature based practices to promote flood control

Flood Control Programs

A) Increasing flood hazard data coverage (maps and models)

B) Continuous funding mechanism

C) Asset management plans

From the goal categories discussed, please rank the categories you believe will yield the highest value for this planning effort

- A) Improving Flood Control Standards
 - B) Enhancing Public Safety
 - C) Reducing Property Damage & Loss
 - D) Flood Control Programs
 - E) Land Protection

Please share some of your thoughts and ideas!



What will we do with your input?

At our August meeting, we will present you with draft goals for your approval that incorporate the feedback today, the results of our research and the TWDB's guidance for measurable plan goals

Example Goals				
Goal	Term of Goal	Target Year	Applicable to	Overarching Goal
50% of the region's population is part of a municipality that has a dedicated funding mechanism for drainage projects.	Short Term	2033	Entire Region	Protect against the loss of life and property
Consider and incorporate nature-based practices in flood risk reduction projects.	Short Term	2033	Entire Region	Protect against the loss of life and property
Enroll 50% of non-participating communities into the National Flood Insurance Program.	Short Term	2033	Entire Region	Protect against the loss of life and property



Public Outreach: Completed/Underway

- Key stakeholders list
- "Coming soon" survey preview e-postcard
- "What to prepare" 2nd survey preview e-postcard
- Handouts for RFPG members' use in stakeholder outreach
- Postcard to survey participants
- Web domain name (<u>www.trinityrfpg.org</u>) and <u>info@trinityrfpg.org</u> email address
- Approved website sitemap and wireframe
- First phase of web programming; site launch prep

Public Outreach: Next Steps

- Website launch initial phase, then full rollout (late June)
- Collection of "interested parties" through website "Subscribe" form (late June and beyond)
- Social media presence, focus on Twitter (July and beyond)
- PowerPoint slide deck for RFPG members' use (July)
- Periodic e-newsletter to inform and engage (Aug./Sept. launch, continuing throughout planning period)
- Editorial meetings with key media regionwide (Summer/Fall)

Public Outreach: Ongoing Efforts

- Branded e-alerts to stakeholders, media, interested parties
- Timely replies to inquiries submitted through website, email, mail
- Documentation of inbound queries, comments and responses
- Other printed/digital collateral materials as needed for public outreach (one-pagers, etc.)
- Updates to website FAQs, glossary, document library, resource links
- Public meetings: advance postings, e-alerts, logistics facilitation and public comment intake

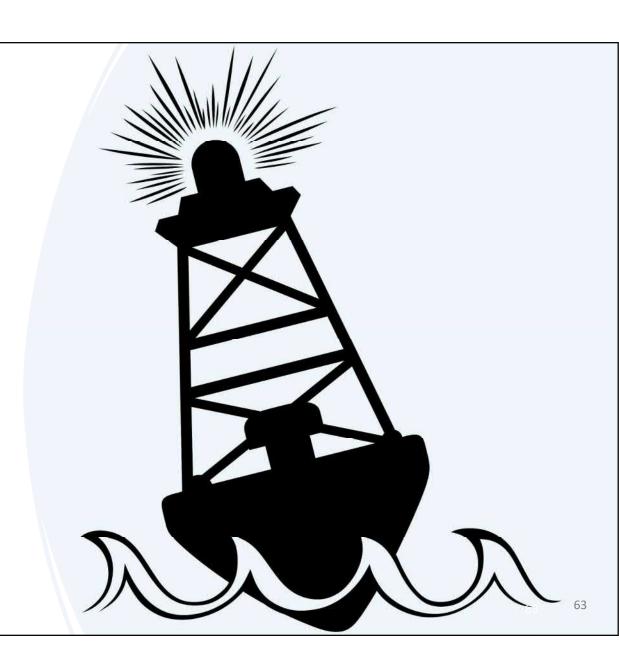
So public input is...

- Received
- Duly considered
- Incorporated appropriately in plan



Approach

- Present overview of TWDB task
- Collect ideas as we go
- Consider participant input
- Select recommendations



Task Overview





"Other"



Example Legislative Ideas

- Expand Local Government Code, Chapter 552 to allow counties to establish and collect drainage utility fees
- Allow waivers of plan amendments for small FMEs, FMSs or FMPs (based on Region C example)

Example Regulatory / Administrative Ideas

- Establish common criteria across the region/subregion
- Provide funding to develop floodplain maps
- Adjust the FIF scoring criteria to _____

Examples of Other Ideas

- Educate county leaders regarding authority to establish and enforce higher standards
- Provide for alternative funding sources
- Provide education to State policy makers related to _____

Please share some of your thoughts and ideas!





LOOK-AHEAD

August

- Pre-Planning Meeting #2
- Preliminary survey & web map results
- Determine floodplain management and mitigation goals

September

- Map & Chapters 1, 2 & 3 approvals
- Process to identify FMEs, FMSs & FMPs (Chapter 4)

October

No meeting

November

• Chapter 4 & Tech Memo approvals

December

• No meeting (unless needed to approve Tech Memo)

10. Updates from adjoining coastal regions

11. Updates from Planning Group Sponsor

12. Receive registered general public comments

Limit 3 minutes per person

13. Consider meeting date for next meeting

14. Consider agenda items for next meeting



15. Adjourn