

July 21, 2022

1. Call to order

2. Roll call

3. Approval of minutes

Region 3 Trinity Flood Planning Group Hybrid Meeting Thursday, June 2, 2022 10:00 a.m. Houston County Electric Cooperative Community Room 1701 Southeast Loop 304 Crockett, TX 75835

The Region 3 Trinity Flood Planning Group held a meeting, in person as well as virtual, on Thursday, June 2, 2022, at 10:00 AM. Chairman Glenn Clingenpeel called the meeting to order at 10:00 AM.

Voting Members Present:

Melissa Bookhout Lissa Shepard (absent) Sano Blocker Jordan Macha (arrived after roll call) Rachel Ickert Craig Ottman (alternate for Rachel Ickert) Matt Robinson Sarah Standifer Andrew Isbell Glenn Clingenpeel Chad Ballard (arrived after roll call) Galen Roberts Scott Harris

9 voting members were present at the time of roll call, constituting a quorum.

Ex Officio Members Present:

Adam Whisenant Rob Barthen Steve Bednarz Andrea Sanders (absent) **Richard Bagans** Humberto (Bert) Galvan Brittany Frazier Greg Waller (absent) Ellen Buchanan Todd Burrer (absent) Jerry Cotter Lisa McCracken (absent) Diane Howe (arrived after roll call) Edith Marvin Justin Bower Lonnie Hunt

Approval of the Minutes of the Last Meeting

Motion: Andrew Isbell moved to approve the minutes as presented; Second: Galen Roberts; Action: Minutes were unanimously approved.

Acknowledgement of written public comments received

No written public comments were received.

Receive registered public comments on specific agenda items

No registered public comments were received.

TWDB Update

Richard Bagans with TWDB provided an agency update.

The Trinity River Authority and Halff Associates subcontract amendment for the addition of Tasks 11, 12 and 13, for increased funding and an extended contract period has been received by TWDB and is being routed for final approval.

The Draft Regional Flood Plan 60 day public comment period must be centered around a public meeting that is held to allow public comment on Draft Regional Flood Plans. The 60 days must be split evenly around the first public meeting. 30 days before the first public meeting and 30 days after the first public meeting. The Draft Regional Flood Plan must be made publicly available throughout the entire 60 days and physically available at 3 locations. The Draft Regional Flood Plan is due on August 1st. The public comment meeting can be held after August 1st. More information can be found at the <u>TWDB RFPG Public Notification Quick Reference Guide</u>. The Draft Regional Flood Plan will be approved for submittal to TWDB at the July 21st RFPG meeting.

FMXs are intended to be reviewed and voted on individually. Members were reminded to review FMXs individually even if they are voted on as a whole.

The Technical Consultants and RFPG Chair Conference Calls took place last week. The Technical Memorandum was discussed. The informal comments provided from TWDB will not require a formal response from the Technical Consultants or RFPG. An additional Technical Consultants Conference Call will be held at the end of June prior to the Draft Regional Flood Plan due date. The TWDB urged all members to review the Draft Regional Flood Plan materials in detail and provide comments from the perspective of the interest category they represent in the region.

Update from Region 3 Technical Consultant -

a. Chapter 4 Flood Mitigation Needs and Potentially Feasible Solutions – David Rivera with Freese and Nichols, Inc.:

The number of potentially feasible FMX's are constantly changing and continually being submitted for recommendation. A significant amount of time is required to gather ancillary material and review each action based on TWDBs criteria. FMPs will be subject to the resources needed to evaluate and process submittals. Therefore, not all FMXs will be recommended in the first Draft Regional Flood Plan, but may be included in an amendment. At this time, 379 FMEs have been submitted for review. An additional 85 FMPs were received after the Technical Consultants deadline. To date, 120 FMPs have been submitted that will require analysis. A recommendation for inclusion in the Draft Regional Flood Plan will take place after a full review. Four additional FMSs were submitted in order to account for the cost of an FMP or an FME. There are now 143 FMSs in total.

- b. Chapter 5 Recommendation of FMEs, FMSs and FMPs David Rivera with Freese and Nichols, Inc.:
 - i. Update on Consultant Team activity
 - ii. Present Consultant Team recommendations

At the April 21st RFPG meeting, RFPG members had requested that 8 FMEs be renamed and their description modified. FME ID 121 was removed entirely due to lack of sponsor support. FME IDs 123, 128, 133, 169, 179, 262, and 274 have been renamed and their description updated. 3 additional FMEs have been submitted and were recommended for inclusion in the Draft Regional Flood Plan. The additional FMEs are Drainage Master Plans. 10 FMEs were eligible for recommendation to the Draft Regional Flood Plan

24 recently submitted FMEs from the city of Dallas and city of Arlington have not been fully reviewed and will not be eligible for inclusion in the Draft Regional Flood Plan. There will be an opportunity to include additional FMXs between the Draft Regional Flood Plan due in August 2022 and the Final Regional Flood Plan due in January 2023. The deadline to submit FMXs has passed.

Prior to the FMX deadline of May 6th, 2022, 33 FMPs had been submitted. 7 FMPs have been fully evaluated and were recommended to be included in the Draft Regional Flood Plan. After the FMX deadline, 85 FMPs were submitted. Of the 85 submitted, only 26 additional FMPs were evaluated due to the resources needed to assess and process. FMXs submitted after May 6th may be added to an amendment, subject to the resources needed to evaluate and process ancillary materials, that may be added to the Regional Flood Plan at an appropriate time during the 5-year flood planning cycle. It was noted that the enumeration of the FMP IDs on the packet materials does not match the presentation.

There was considerable discussion on recommending FMPs that have been submitted after the May 6th deadline. The RFPG members reiterated that FMXs would be accepted after the deadline, but with no guarantee they would be recommended for inclusion in the Draft Regional Flood Plan. FMXs submitted after the deadline will be prioritized based on the amount of information received that could be evaluated. There are procedural and documentation requirements that must be met for each FMX prior to recommendation to the Draft Regional Flood Plan. It may be possible to evaluate all FMXs that meet TWDBs criteria, however, the procedural and documentation processes take significant effort and must be completed prior to submittal to the Draft Regional Flood Plan. It was recommended that that all FMXs submitted after the deadline be reviewed and recommended during the amendment process or the next planning cycle. The 26 FMPs presented today will be deferred to the amendment process. TWDB noted that the public comment period will allow recommended FMX concerns to be raised.

A No Negative Impacts Analysis example was presented. There was considerable discussion on the No Negative Impacts criteria. Guidance is needed from the TWBD, however there is flexibility provided to the RFPG through TWDB Exhibit C Section 3.6.A. Justification for recommendation of projects includes the following notation: *"Local sponsors will be ultimately responsible for proving the final project design has no negative flood impacts"*.

One FMS was presented for recommendation to include in the Draft Regional Flood Plan. It was noted that TWDB will be adding an additional column for individual construction costs for FMEs so that additional FMSs would not be needed. The current recommended FMSs will be reevaluated once the additional column is provided to the Technical Consultants.

iii. *Consider approval of recommendations

Chairman Glenn Clingenpeel called for a motion to approve the 10 FMEs for inclusion in the Draft Regional Flood Plan as presented.

Motion: Andrew Isbell motioned to approve the 10 FMEs for inclusion in the Draft Regional Flood Plan as presented; Second: Scott Harris; Action: Motion passed unanimously.

Chairman Glenn Clingenpeel called for a motion to approve the 7 fully

evaluated FMPs for inclusion in the Draft Regional Flood Plan as presented.

Motion: Scott Harris motioned to approve the 7 fully evaluated FMPs for inclusion in the Draft Regional Flood Plan as presented; Second: Jordan Macha; Action: Motion passed unanimously.

Chairman Glenn Clingenpeel called for a motion to approve 1 FMS for inclusion in the Draft Regional Flood Plan as presented with the amendment of city of Terrell's name.

Motion: Sarah Standifer motioned to approve the 1 FMS for inclusion in the Draft Regional Flood Plan as presented with the amendment of the city of Terrell's name; Second: Rachel Ickert; Action: Motion passed unanimously.

c. Chapter 8 Administrative, Regulatory and Legislative Recommendations – Audrey Giesler with Halff Associates:

The Administrative, Regulatory and Legislative Recommendations were revised and provided in the meeting materials for RFPG members to review. It was noted that Chapter 8 cannot be amended and thus must be finalized prior to January 2023. Chapter 8 may be updated during future regional flood planning cycles. The revised recommendations were presented.

8.2.1 Recommendation Statement: "Review and revise as necessary all state infrastructure entities standards and practices for legislative and regulatory compliance with stormwater best practices." Reference to TxDOT was removed. It was also requested that the reasoning be updated to replace "*same*" with "*consistent with*" standards.

"State entities should be cognizant of the drainage and stormwater standards in the areas where they are active. State entities should be held to the <u>same standards</u> that the local entities uphold."

8.2.2 Reason for Recommendation: "City and county officials are often unaware of their authority to establish and enforce stormwater regulations as provided in the <u>early 2000's</u> state legislation. (Texas Local Government Code Title 7, Subtitle B.; Texas Water Code Chapter 16, Section 16.315) Flooding and drainage component of city and county officials' training is often inadequate for their level of responsibility." It was recommended to remove reference to the "early 2000's".

8.2.8 Reason for Recommendation: Rachel Ickert provided a comment on high hazard dam inspection frequency. She noted it may be beneficial to provide flexibility on inspection frequency since individual dam owners conduct inspections frequently. She proposed that the TCEQ should be

allowed to inspect high-hazard dams found to be in poor condition more frequently until said condition is improved.

8.3.7 Recommendation Statement: "Remove information requirements regarding the condition of Homeland Security protected infrastructure, such as dams, from the TWDB-required tables." It was recommended that dam infrastructure conditions be removed from Chapter 8 due to security reasons.

8.2.9 Recommendation Statement: "Address the concern of "takings" with regards to floodplain development regulations, comprehensive plans, land use regulations and zoning ordinances." It was recommended to remove this recommendation from Chapter 8.

Motion: Andrew Isbell motioned to remove the 8.2.9 recommendation from Chapter 8; Second: Matt Robinson; Action: Motion passed unanimously.

Consultant-requested recommendations were presented. Review of consultant-requested recommendations proceeded without comment from the RFPG members.

Chairman Glenn Clingenpeel called for a motion to approve the revisions and the consultant recommendations.

Motion: Scott Harris motioned to approve the revisions and the consultant recommendations; Second: Rachel Ickert; Action: Motion passed unanimously.

There was considerable discussion and debate on recently submitted Legislative and Regulatory recommendations. As these recommendations were technical in nature, the RFPG recommended that, due to time constraints, a technical subcommittee be appointed to review and approve these during a future regional flood planning cycle.

 Requested Addition #1: "Non regulatory regional flood control or drainage districts should be established and funded for rapidly growing urban areas such as DFW, Houston, San Antonio, etc."

USACE commented that some of the smaller communities within the DFW Metroplex would benefit from non-regulatory, technical reviews for rapidly developing areas. There was considerable discussion on this addition as it needs a thorough review from a Technical Subcommittee. There was a consensus to pull for separate consideration.

• Requested Addition #2: "Require the use of n-values and channel conditions which would likely result if the channel or project were not maintained."

There was considerable discussion on this addition. It is technical in nature and belongs in a local criteria manual. There was consensus to pull for separate consideration.

 Requested Addition #3: "No loss of valley storage to the 500-year level."

There was considerable discussion on this addition. The intent of the addition is to focus on fill activities. It was noted that since it includes policy recommendations, it should be considered separately.

 Requested Addition #4: "Establish future land use plans for unincorporated areas associated with rapidly growing urban areas."

USACE commented that they would like to see the existing 2000s state legislation that provides counties the authority to regulate floodplains modified to clarify what counties can do within the existing legislation. There was considerable discussion on recommending a regulatory change. It was proposed to modify the language to the following: "Recommend that the state provide guidance on the extent of County Authority related to the regulation of floodplain management under existing state law including potential best management practices. The counties need guidance on what can and cannot be done based on current legislation."

Chairman Glenn Clingenpeel called for a motion to recommend that the state provide guidance on the extent of County Authority related to the regulation of floodplain management under existing state law including potential best management practices.

Motion: Andrew Harris motioned to approve the recommendation that the state provide guidance on the extent of County Authority related to the regulation of floodplain management under existing state law including potential best management practices; Second: Scott Harris; Action: Motion passed unanimously.

A technical review will be required of the remaining additional recommendations. These recommendations will be pushed to a future flood planning cycle. To review the additional recommendations effectively, a Technical Subcommittee may be formed at that time.

d. Update on Chapter 9 Flood Infrastructure Financing Analysis, David Rivera with Freese and Nichols, Inc.:

A draft email and survey for the recommended FMXs was presented to send to potential sponsors in order to garner feedback on the recommendations. The

email will include a link to one-page summaries for each solution. If a response is not received, a follow up phone call will take place. If no response is received, the consultants will assume that the sponsor will provide a 10% match. The survey will be open until June 20th.

Updates from liaisons for adjoining coastal regions

- a. Region 5 Neches RFPG: Andrew Isbell reported there were no updates.
- b. Region 6 San Jacinto RFPG: Scott Harris reported there were no updates.

Update from Planning Group Sponsor

Mr. Clingenpeel reported there were no updates.

Review administrative costs requiring certification

There were no administrative costs requiring certification.

<u>Receive registered public comments</u> – limit 3 minutes per person

Mr. Clingenpeel opened the floor for public comments. No comments were received and the public comment section was closed.

Announcements

Audrey Giesler noted that the RFPG had one week from June 2nd to provide comments on Chapters 4, 5, and 8. A two week notice will need to be provided for the July 21st RFPG meeting. Chapter 3 will be available for review and may need to be voted on by the RFPG. A fall meeting will be scheduled sometime in September or October. The RFPG will approve the final regional flood plan in November.

Confirm meeting date for next meeting

July 21st, 2022 in the DFW area

Consider agenda for next meeting

Adjourn 1:41 pm adjourned

THE ABOVE AND FOREGOING ARE CERTIFIED TO BE TRUE AND CORRECT MINUTES OF THE REGULAR MEETING OF THE REGION 3 TRINITY FLOOD PLANNING GROUP HELD JUNE 2, 2022.

SCOTT HARRIS, Secretary REGION 3 TRINITY FLOOD PLANNING GROUP

Date

GLENN CLINGENPEEL, Chair REGION 3 TRINITY FLOOD PLANNING GROUP Date

4. Approval of Technical Subcommittee minutes

Region 3 Trinity Regional Flood Planning GroupTechnical Subcommittee Meeting Thursday, April13, 2022 1:00 p.m. Tarrant Regional Water District – Richland Chambers Lake Office 140 Farm to Market 416, Streetman, TX 75859

The Region 3 Trinity Flood Planning Group Technical Subcommittee held a meeting, in person as well as virtual, on Thursday, April 13, 2022, at 1:00 PM. Chairman Andrew Isbell called the meeting to order at 1:01 PM.

Members Present:

Craig Ottman Andrew Isbell Lissa Shepard Galen Roberts Scott Harris

Members Absent:

Sarah Standifer Matt Robinson

5 members were present, constituting a quorum

Approval of minutes from the previous meeting

Motion: Lissa Shepard moved to approve the February 10th and March 15th meeting minutes as presented with a request to fix the spelling of Halff Associates;

Second: Craig Ottman; Action: Minutes were unanimously approved.

Acknowledgement of written public comments received

No written public comments were received.

Receive registered public comments

No registered public comments were received.

<u>Update from the Region 3 Technical Consultant – David Rivera with Freese and Nichols, Inc</u>

A spreadsheet detailing individual FMX actions was presented. The actions are not prioritized. TWDB will not have ranking criteria established before Regional Flood Planning Draft is due. The RFPG Technical Subcommittee was asked to provide

feedback and agree or disagree with Technical Consultants recommendation of actions. Currently, FMPs are closed for additions. There is still an opportunity to add FMEs.

- a. a. Task 5 Recommendation of FME, FMP and FMS
 - I. Preliminary TC recommendations.
 - a. FME
 - (i) FME Group A Watershed Planning Flood Mapping Updates:

There was considerable discussion regarding how FEMA maps can be updated. Smaller projects should be considered for updating FEMA maps via LOMR, for example. It would be beneficial if updates do not require full FIRM mapping.

There was considerable discussion regarding how a region should handle county-wide projects that span multiple regions. For example, Region 2 suggested that if the project is less than 50% in their region they would request the other region recommend it. It was suggested that the projects be kept in the Region 3 Plan even if they only have a small portion in the Region. Region 3 will be recommending actions within their jurisdiction. Areas outside Region 3 would need to be recommended by the appropriate Region.

It was requested that TWDB make a recommendation on what region should recommend a county wide project when the project spans multiple watersheds. Richard Bagans stated that TWDB is currently deliberating on this.

The consensus was to leave the language alone and agree or disagree on recommending them.

The RFPG Technical Subcommittee agrees to recommend all.

 (ii) FME Group B – Watershed Planning – Flood Mapping Updates – Dam /Levee Failure:

This group contains dam and levee inundation studies across the region.

Lissa Shepard stated that dams identified as high hazard are required to have an emergency action plan. This should be the case for any dam within the area. The legislation wants the RFPG to consider dams as part of the state flood plan.

Steven Bednarz entered the following in the WebEx chat feature: "TSSWCB feels that maintenance and repair of existing dams is important and in need of funding. Development of emergency action plans is also important and in need of funding. Upgrading dams to withstand the PMP flood is lower priority."

The RFPG Technical Subcommittee agrees to recommend all.

(iii) FME Group C – Watershed Planning – Drainage Master Plan:

The Technical Consultant proposed not recommending the City of Richardson Drainage Master Plan because they have already split their projects within individual watersheds. The Technical Consultant proposed not recommending the City of Mansfield Drainage Master Plan because they were able to replace it with specific FMEs. The RFPG Technical Subcommittee agreed with the Technical Consultants recommendation.

The Technical Consultant proposed not recommending Fannin County Drainage Master Plan because the county is mostly in Region 2. The RFPG Technical Subcommittee did not agree. It will be recommended.

The RFPG Technical Subcommittee recommended that the Technical Consultant determine if any counties are missing. It was recommended that FME Group A be compared to FME Group C and add the counties to FME Group C if they are in FME Group A. Cities should also be added.

RFPG Technical Subcommittee agrees with Technical Consultant recommendations.

(iv) FME Group D – H&H Modeling:

Dallas County requested that the Dallas County DMP and Vulnerability Assessment be removed from recommendation since they are doing this with Cat 1 FIF Study.

Technical Consultant recommended removing the Richardson West Fork Cottonwood Creek Watershed Study since Richardson is not interested.

The RFPG Technical Subcommittee recommends the remaining two projects.

(v) FME Group E – City of Garland Drainage Type Improvements:

The RFPG Technical Subcommittee recommends merging all 22 projects as one FME and adding one FMS linking all FMEs to capture construction costs.

(vi) FME Group F – Project Planning for bridge improvements, storm drainage improvement, low water crossings, channelization's, and channel expansions:

It was recommended that all project descriptions include an evaluation component. Specifically, FME projects 123, 130, and 135. It was also recommended to reach out to Farmers Branch to gather more information on dredging project. If no response received, the Technical Consultant should remove it as a recommendation.

(vii) FME Group G – Project Planning for Flood warning, drainage, road elevation, flood gates, and critical facilities:

It was recommended that all project descriptions include an evaluation component. This will aid in determining flood risk reduction.

The RFPG Technical Subcommittee recommends all projects.

(viii) FME Group H – Project Planning for drainage improvements, culverts, road improvements and bridge elevations:

The RFPG Technical Subcommittee recommends all projects that the Technical Consultant recommended.

(ix)FME Group I – Project Planning for erosion type projects:

It was recommended that all project descriptions include an evaluation component. This will aid in determining flood risk reduction.

(x) FME Group J – Project Planning for bridges, channelization, regional detention, culverts, and diversion channels:

It was proposed that the City of Hurst projects 175-180 be merged together. The RFPG Technical Subcommittee recommends all projects that the Technical Consultant recommended.

(xi) FME Group K – Project Planning for City of Grand Prairie channel improvements and storm drain improvements:

The RFPG Technical Subcommittee recommends all projects regardless of Level of Service (LOS) not meeting 100 yr. storm. It was also recommended that the 53 FMEs be listed as is, but group together to list as an FMS to capture construction costs.

(xii) FME Group L – Project Planning for City of Grand Prairie channel stabilization:

It was recommended that the language is revised to demonstrate these FMEs are studies and not FMPs. It was recommended that the Technical Consultant replace the word "maintenance" with "improvement". It was recommended that all project descriptions include an evaluation component. It was noted that the cumulative effect of these projects would reduce sedimentation that impacts reservoirs.

The RFPG Technical Subcommittee recommends all projects.

(xiii) FME Group M – Project Planning for erosion control:

It was recommended that the Technical Consultant coordinate with other regions where there is overlap on recommended projects. It was recommended that City of Bedford improvement projects 265-269 be merged.

The RFPG Technical Subcommittee recommends all projects.

(xiv) FME Group N – Studies on Flood Preparedness:

The RFPG Technical Subcommittee recommends all projects.

(xv) FME Group O - Dam Studies and Rehabilitation:

The RFPG Technical Subcommittee recommends all projects.

(xvi) FME Group P – Project Planning:

It was recommended that all project descriptions include an evaluation component. The RFPG Technical Subcommittee recommends all projects.

(xvii) FME Group R – Watershed Planning Region Wide Studies:

The RFPG Technical Subcommittee recommends all projects.

The Technical Consultant will review and update each FME with an evaluation component.

Adjourn for 5 minutes – 3:30 pm to 3:35 pm.

- b. FMS
 - (i) FMS Group A Flood Measurement and Warning Systems:

The RFPG Technical Subcommittee recommends all projects.

(ii) FMS Group B - Regulatory and Guidance:

The RFPG Technical Subcommittee does not recommend MS4 project 21 and 32. It was recommended that the project 27 and project 29 Sponsor be contacted for more information on what is needed to update local flood ordinance.

There was considerable discussion on projects prohibiting development within the floodplain. It was recommended that the Technical Consultant review each FMS description and contact Sponsor to clarify language before recommending these FMS projects.

The RFPG Technical Subcommittee agreed with all other Technical Consultant Recommendations.

(iii) FMS Group C – Property Acquisition and Structural Elevation:

The RFPG Technical Subcommittee agreed with Technical Consultant Recommendation, but requested they reach out to Sponsor for more information.

(iv)FMS Group D – Preventative Maintenance Programs:

It was recommended that all descriptions remove reference to "routine" maintenance and be substituted with "Developing a Maintenance Plan with best practices". Project 47 and 48 description should remove "routine inspection plan" and substitute with "developing an inspection program/creating an inspection plan".

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations.

(v) FMS Group E – Property Acquisition and Structural Elevation:

It was recommended that all descriptions be updated to only include actions related to flood mitigation and protection. Acquisition projects must specify that these acquisitions would be voluntary, that the areas are in the floodplain, and that this acquisition would have a flood protection and flood reduction benefit. All acquisition projects must demonstrate they reduce the impact of flooding.

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations.

(vi) FMS Group F - Education and Outreach:

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations. It was proposed that the Council of Governments be contacted to consider sponsoring a regionwide education and outreach program. This proposed program could then be added to the FMS list.

(vii) FMS Group G – Nature-Based Solutions:

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations.

(viii) FMS Group H - Other:

It was recommended to update project 101 by adding language on flood mitigation. The description could further be expanded by adding "study of strategies for funding developments of stormwater drainage systems that improve the impacts of flooding".

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations.

(ix)FMS Group I - Regulatory and Guidance:

NFIP documents already exist to develop a floodplain ordinance that meets FEMA's minimum standard. These strategies may be for a specific ordinance developed by a private consultant. It was proposed that the Council of Governments Sponsor a regionwide FMS to help these communities develop and adopt ordinances.

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations.

(x) FMS Group J – Infrastructure Projects:

The RFPG Technical Subcommittee agreed with the Technical Consultant Recommendations.

c. FMP:

The FMPs were not presented one by one. FMPs will not be recommended if the Sponsor is not interested. FMPs are still being analyzed and pending. Several are good potential project candidates. Steven Bednarz entered the following in the WebEx chat feature: "When you upgrade/rehabilitate high hazard NRCS Watershed Program dams, you not only address public safety for the PMP storm, but you also usually increase the level of flood protection from the 25-year flood to the 100-year flood. Just something to keep in mind for FMP on existing NRCS dams."

The RFPG Technical Subcommittee recommended that if the FMP meets the eligibility requirement they will be recommended to the RFPG. However, the RFPG cannot vote on the FMP list at the April 21st meeting since the FMPs are not fully screened for eligibility. It was proposed that the RFPG take action on FMPs so far submitted, but cannot approve until screened for eligibility. The RFPG will take final action on FMPs once they are cleared. No other FMPs can be submitted.

b. Sub-Committee reviews and confirms/rejects TC recommendations.

FMEs and FMSs will be recommended to RFPG group for a vote. It was proposed that the RFPG take action on FMPs so far submitted, but cannot approve until screened for eligibility. The RFPG will take final action on FMPs once they are cleared. No other FMPs can be submitted.

c. Sub-Committee considers vote to adopt the recommended actions (FME, FMP, FMS) to present to RFPG.

Recommended FMEs and FMSs were presented to the RFPG Technical Subcommittee for consideration. The chair then called for a motion to recommend FMEs and FMSs as edited today for approval to the RFPG.

Motion: Scott Harris moved to recommend the FMEs and FMSs as edited today for approval to the RFPG; Second: Galen Roberts; Motion approved unanimously

A list of pending FMPs were presented to the RFPG Technical Subcommittee for consideration. The chair then called for a motion to recommend that the list of FMPs be vetted for eligibility by consultants and then returned to the RFPG for final approval at a later date.

Motion: Galen Roberts moved to recommend that the list of FMPs be vetted for eligibility by consultants and then returned to the RFPG for final approval at a later date; Second: Craig Ottman; Motion approved unanimously

Receive registered general public comments – limit 3 minutes per person

Mr. Isbell opened the floor for public comments. No comments were received and the public comment section was closed.

Announcements -

No announcements.

Confirm meeting date for next meeting

The RFPG Technical Subcommittee will not need to meet again unless so ordered by the RFPG.

Agenda items for next meeting -

The RFPG Technical Subcommittee will not need to meet again unless so ordered by the RFPG.

<u>Adjourn:</u>

The meeting was adjourned at 5:05 PM.

THE ABOVE AND FOREGOING ARE CERTIFIED TO BE TRUE AND CORRECT MINUTES OF THE REGULAR MEETING OF THE REGION 3 TRINITY FLOOD PLANNING GROUP TECHNICAL SUBCOMMITTEE HELD APRIL 13, 2022.

Craig Ottman, Secretary	Date
REGION 3 TRINITY FLOOD	
PLANNING GROUP TECHNICAL SUBCOM	IMITTEE

Andrew Isbell, Chair Date REGION 3 TRINITY FLOOD PLANNING GROUP TECHNICAL SUBCOMMITTEE

5. Acknowledgement of written comments received

6. Public comments on agenda items

7. TWDB update

8. Consultant update



CONSULTANT UPDATE

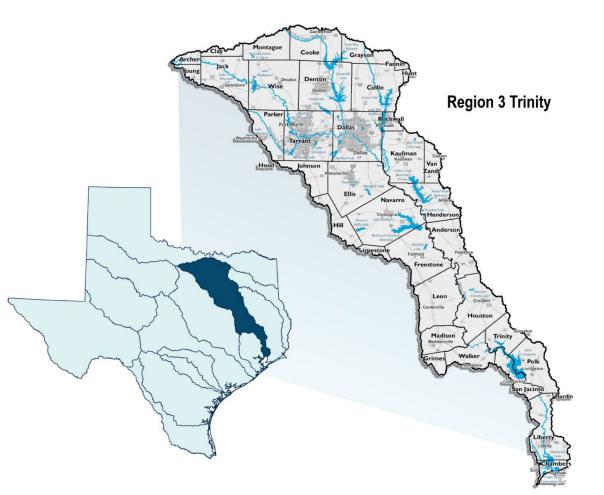
- Present Draft Regional Flood Plan
 - All chapters
 - Responses to select TWDB comments on previous deliverables
- Request Approval to Submit Draft Regional Flood Plan
- Process to Receive, Review and Respond to Comments Received on Draft Regional Flood Plan
- Public Outreach Updates

Executive Summary Chapters 1-10 Appendices

Executive Summary

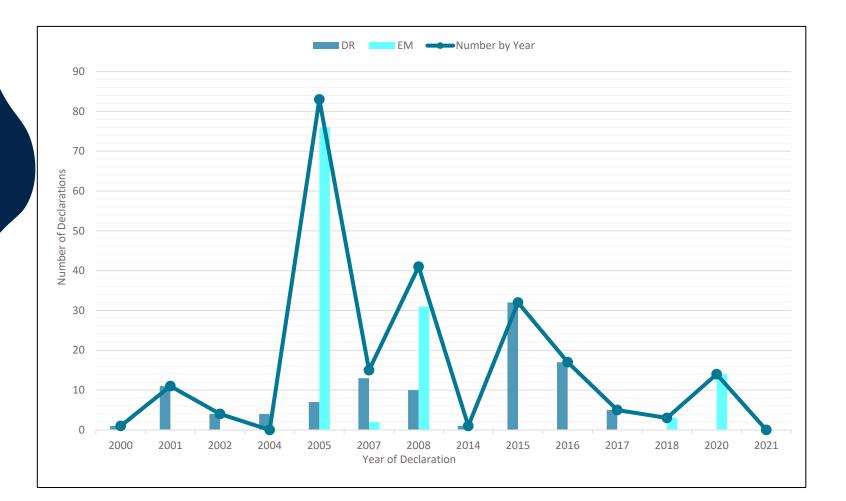
Executive Summary

- Overview of regional flood planning
- Introduction to Trinity Region
- Key findings and recommendations
 - Existing and future flood risk
 - Identification and selection of FMXs
 - FMX costs
 - Public Outreach
- TWDB-required statements



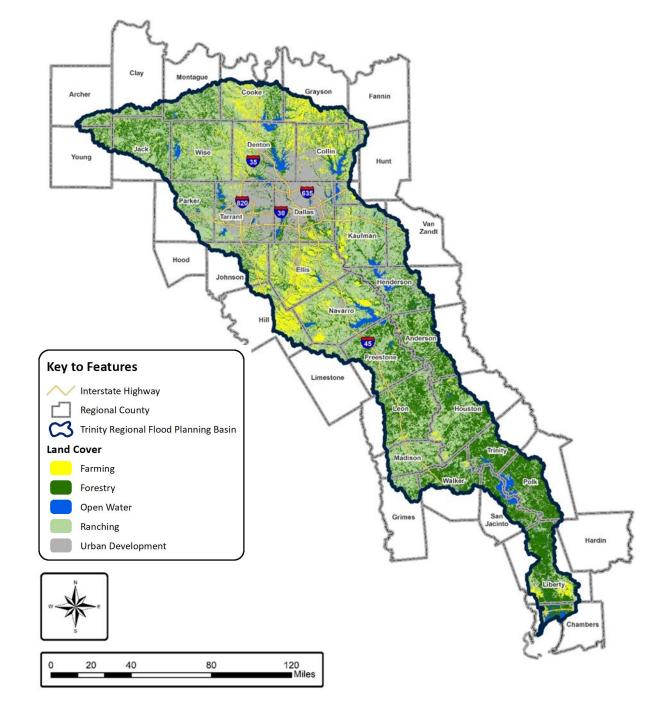
Ch. 1 Planning Area Description

Disaster Declarations 2000-2021



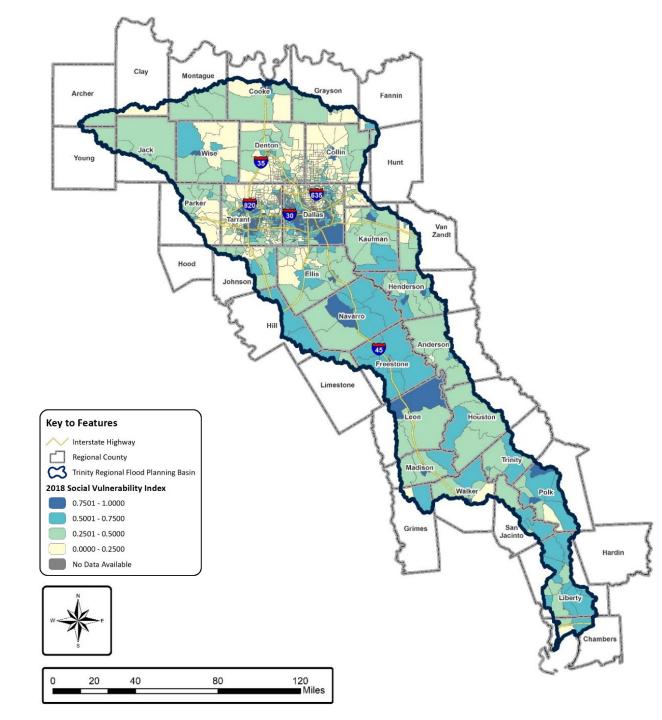
Texas Working Lands

- Farming/ Crop Production
 - Predominant in north and central regions
 - Concentrations of farming area in Liberty Co.
- Forestry
 - Predominant working land type in south region
 - Relationship to national forests and preserves
- Ranching
 - Prominent land use throughout the basin
 - Largest concentration of ranching areas to the NW of the metroplex and the central basin



Social Vulnerability Index (SVI)

- Economic Status
- Exposure to Flood Risk
- Age
- Racial & Ethnic Background
- Disability Status
- Access to Transportation
- Etc.



Ch. 2 Flood Risk Assessment

Data Collection Website & Outreach

Community Representative?

Community Stakeholders in the RFPG process invlude individuals with flood-related responsibilities, such as County and Community officials and Staff as well as Federal, State, regional, and local authorities, utilities and districts.

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. Through this data collection effort the RFPG is requesting community stakeholders:

- Provide information about your contact information and flood-related responsibilities.
- Verify collected flood information through an entityspecific backgrounder.
- Respond to questions to support the development of the regional flood plan.
- Verify and provide geospatial data through data uploads and web maps.

The RFPG appreciates any information you are able to verify and provide with the understanding that it may not be possible to provide response to all items.

Member of the Public?

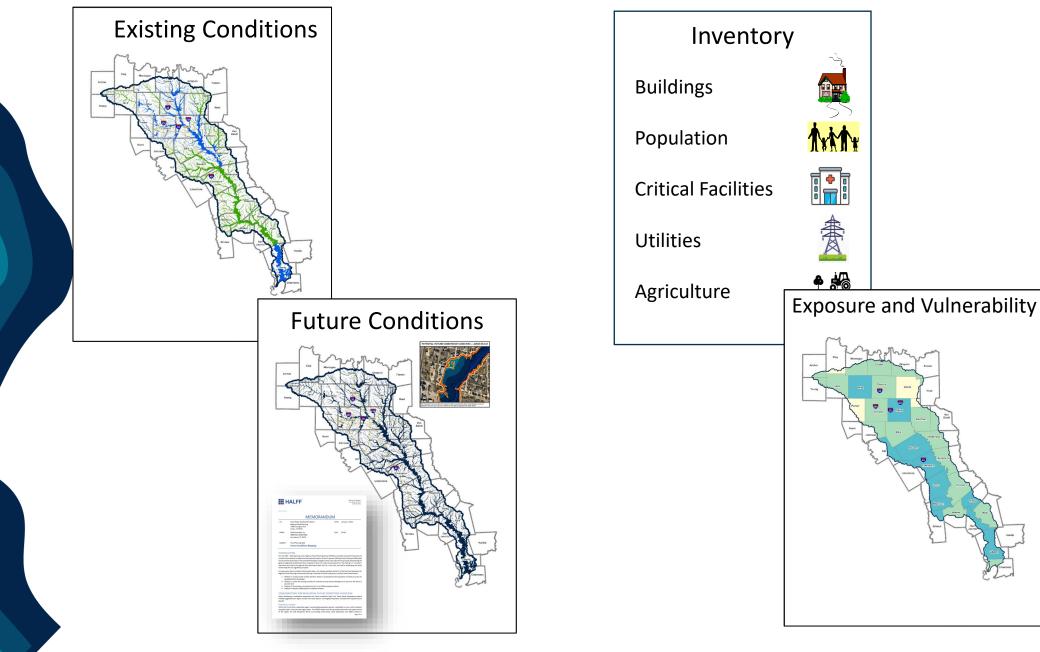
Public Stakeholders in the RFPG process include general public individuals, groups, and organizations including non-profit and non-governmental organizations with an interest in providing information to support flood planning efforts.

By provding your name, address, and email address, you can help provide the RFPG with localized knowledge of flood prone areas and areas where flood mitigation is needed. Your contact information is used to document who is providing information in case we have any follow-up questions.

Name			
Address			
Email		 	//
Take me to the	map		

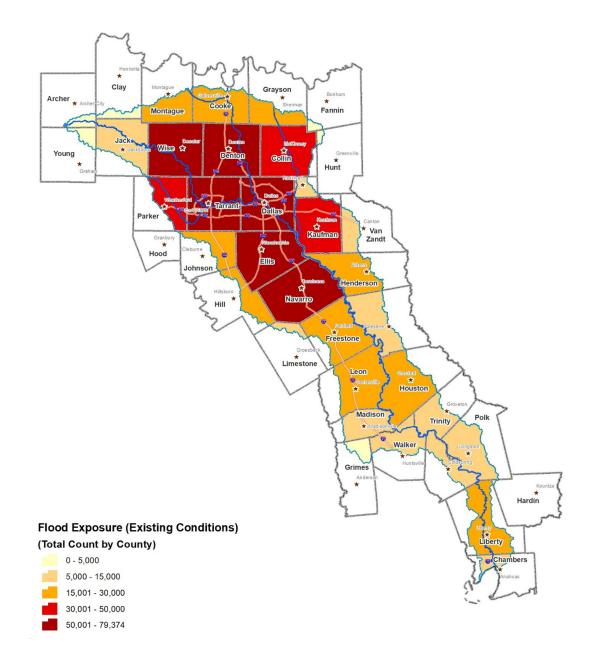
Entity Login

Chapter 2: Flood Risk Assessment



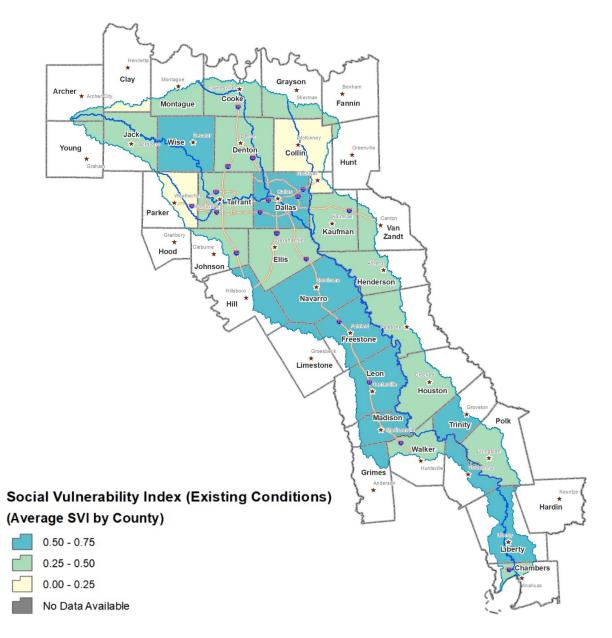
Existing Flood Exposure

	Initial Exposure Analysis		Updated Expo		
	Total				
	Total Exposure	Exposure in	Total Exposure	Total Exposure	
	in the 1%	the 0.2%	in the 1%	in the 0.2%	
	Annual	Annual	Annual	Annual	
	Chance Storm	Chance Storm	Chance Storm	Chance Storm	%
County	Event	Event	Event	Event	Increase
Anderson	240	35	1871	798	9709
Archer	5	3	24	7	3919
Chambers	580	766	6470	7371	10289
Clay	35	5	68	16	2109
Collin	2785	1797	22372	21169	9509
Cooke	1600	317	3332	3490	3569
Dallas	15339	25919	283738	104189	9409
Denton	4938	4174	29366	28292	6339
Ellis	2072	591	10929	5672	6239
Fannin	142	40	233	121	1949
Freestone	474	100	1117	501	2829
Grayson	430	29	948	736	3679
Grimes	124	34	229	89	2029
Hardin	0	0	36	69	709
Henderson	2576	62	5548	1162	2549
Hill	117	36	354	120	3109
Hood	0	0	0	0	09
Houston	546	135	1650	1098	4049
Hunt	23	0	42	0	1869
Jack	230	56	588	169	2649
Johnson	1619	336	5771	5708	5879
Kaufman	1500	320	8172	3814	6599
Leon	515	82	1576	394	3309
Liberty	4821	3447	17609	20566	4629
Limestone	63	22	215	211	5019
Madison	391	88	744	976	3599
Montague	390	9	830	263	2749
Navarro	1666	345	5677	2258	3959
Parker	1321	91	8259	4651	9149
Polk	4243	701	8303	3085	2309
Rockwall	556	23	3693	1084	8259
San Jacinto		537	5164	1841	2149
Tarrant	15463	10683	73898	63208	5249
Trinity	1335	190	3208	714	2579
Van Zandt	317	90	922	406	3269
Walker	1453	254	6696	2921	5639
Wise	1551	67	5325	3149	5249
Young	19	0	47	11	3059



Existing Vulnerability and Critical Infrastructure

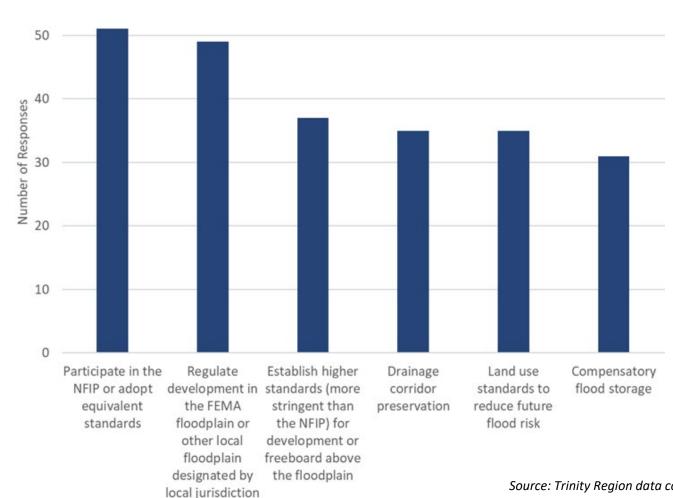
County	Initial Avg. SVI	Updated Avg. SVI
Anderson	0.42	0.39
Archer	0.44	0.44
Chambers	0.29	0.33
Clay	0.21	0.21
Collin	0.21	0.2
Cooke	0.40	0.30
Dallas	0.56	0.56
Denton	0.27	0.2
Ellis	0.38	0.40
Fannin	0.34	0.34
Freestone	0.58	0.55
Grayson	0.28	0.28
Grimes	0.51	0.4
Hardin	No Data Available	0.5
Henderson	0.41	0.4
Hill	0.61	0.6
Hood	No Data Available	0.1
Houston	0.47	0.4
Hunt	0.39	0.3
Jack	0.41	0.34
Johnson	0.31	0.3
Kaufman	0.45	0.4
Leon	0.60	0.6
Liberty	0.60	0.5
Limestone	0.53	0.54
Madison	0.54	0.4
Montague	0.42	0.34
Navarro	0.70	0.6
Parker	0.23	0.2
Polk	0.46	0.5
Rockwall	0.24	0.1
San Jacinto	0.51	0.54
Tarrant	0.42	0.3
Trinity	0.55	0.5
Van Zandt	0.38	0.3
Walker	0.35	0.4
Wise	0.51	0.3
Young	0.48	0.4



Ch. 3 Floodplain Management Practices and Goals

Recommended (not required) Floodplain Management Standards

60



Source: Trinity Region data collection survey results as of September 16, 2021

Seven Overarching Goals are:



Specific & Achievable



Reduce Residual Risk



Recommended



Measurable: Short-term (10 years) Long-Term (30 years)

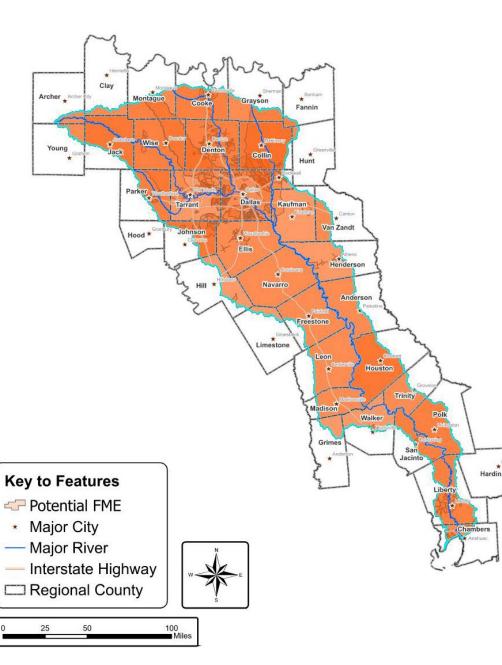


Regionwide

Ch. 4 Assessment and Identification of Flood Mitigation Needs

Assessment and Identification of Flood Mitigation Evaluations (FMEs)

FME Туре	FME Sub-Types	# of FMEs Identified
	Watershed Planning – Drainage Master Plans	51
Watershed	Watershed Planning – H&H Modeling, Regional Watershed Studies	15
Planning	Watershed Planning — Flood Mapping Updates	37
	Watershed Planning — Flood Mapping for Dam and Levee Failure	11
Project Planning	Engineering Project Planning	236
Preparedness	Studies on Flood Preparedness	5
Other	Other – Dam Studies	1

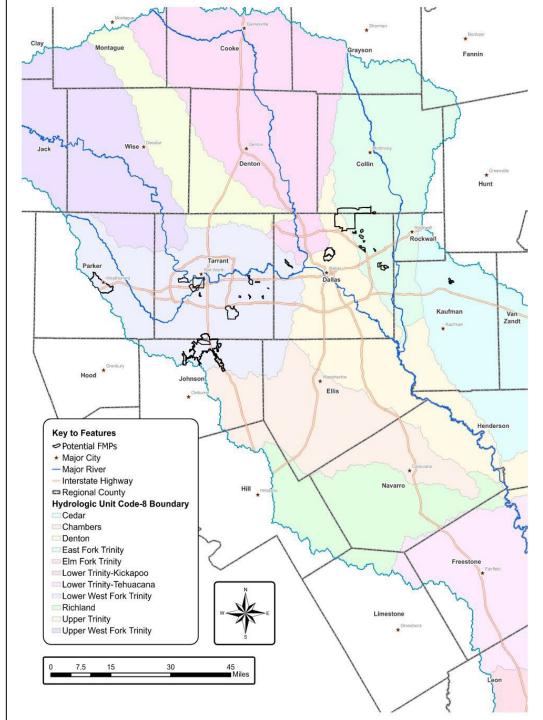


Total FMEs: 356

Assessment and Identification of Flood Mitigation Projects (FMPs)

FMP Type	General Description	# of FMPs Identified
Stormwater Infrastructure Improvements	Improvements to stormwater infrastructure including channels, ditches, ponds, stormwater pipes, etc.	31
Regional Detention Facilities	Runoff control and management via detention facilities.	2

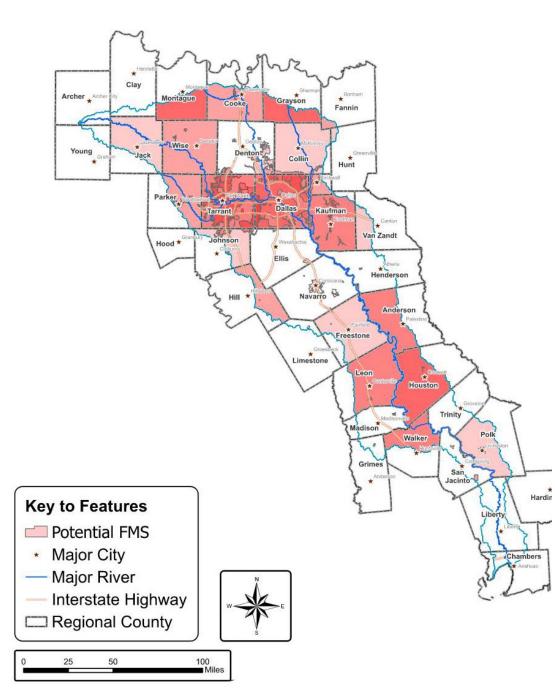
Total FMPs: 33



Assessment and Identification of Flood Mitigation Strategies (FMSs)

	Identified
Education and Outreach	22
Flood Measurement and Warning	20
Infrastructure Projects	5
Property Acquisition and Structural Elevation	28
Regulatory and Guidance	55
Other	13

Total FMSs: 143



Ch. 5 Recommendation of FME, FMS, and Associated FMP

FME Status

• 342 out of 356 recommended and included in Draft Plan

FME Type	FME Description	# of Potential FMEs Identified	# of FMEs Recommended	Total Cost
Preparedness	Studies on Flood Preparedness	5	5	\$3,150,000
Project Planning	Previously Identified Drainage Projects and Flood Studies	238	228	\$60,937,000
Watershed Planning	Flood Mapping Updates, Drainage Master Plans, H&H Modeling, Dam and Levee Failure	112	108	\$79,879,000
Other	Dam Studies	1	1	\$2,000,000
	Tota	I 356	342	\$145,966,000

FMP Status

- 7 FMPs fully evaluated
- All recommended and included in Draft Plan

FMP ID	FMP Name	Sponsor		All required data available prior to Cutoff Date? (4/13/2022)	Total Cost
033000007	Spring Meadows Estates Detention Pond Design	Sachse	Y	Υ	\$1,868,000
033000008	West Irving Creek Phases 2, 3, and 4	Irving	Y	Υ	\$98,746,000
033000016	Arlington VC(A)-1 Drainage and Erosion Improvements	Arlington	Y	Υ	\$2,601,000
033000030	Lancaster/Foch Area Mitigation	Fort Worth	Y	Υ	\$11,771,000
033000031	Linwood Park Flood Mitigation (Western Arlington Heights)	Fort Worth	Y	Υ	\$50,523,000
033000033	Sunnyvale Urban Flooding Reduction Improvements - Area 1	Sunnyvale	Y	Υ	\$4,560,000
033000036	Sunnyvale Urban Flooding Reduction Improvements - Area 2	Sunnyvale	Y	Y	\$5,701,000
				Total	\$175,770,000

FMS Status

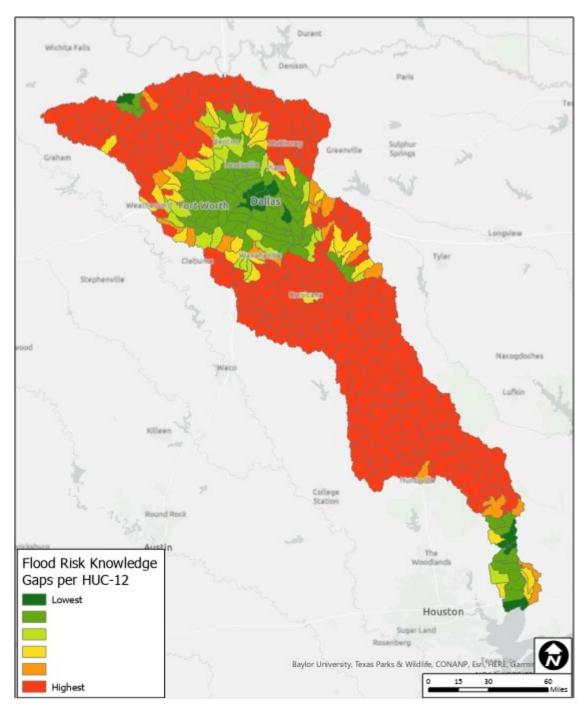
• 136 out of 143 recommended and included in Draft Plan

FMS Type	FMS Description	# of Potential FMSs Identified	# of FMSs Recommended	Total Cost
Education and	Turn Around, Don't Drown Campaigns; NFIP Education; Flood Education;	22	19	\$975,000
Outreach	Dam Safety Education; Floodplain Regulatory Awareness			<i>Q</i> 0 1 1 0 1 1 1 1 1 1 1 1 1 1
Flood Measurement and Warning	Flood Warning Systems; Rain/Stream Gauges and Weather Stations; Low Water Crossings (LWCs)	20	20	\$5,300,000
Infrastructure Projects	Hazardous Roadway Overtopping Mitigation Program; Citywide Drainage Improvements; Flood-Proofing facilities	5	5	\$430,000,00
Other	Debris Clearing Maintenance; Channel Maintenance and Erosion Control; Dam Inspections; Levee Inspections; City Parks; Green Infrastructure; Open Space Programs	13	12	\$8,525,000
Property Acquisition and Structural Elevation	Acquire High Risk and Repetitive Loss Properties; Acquire and Preserve Open Spaces; Flood-Proofing Facilities	28	28	\$295,500,000
Regulatory and Guidance	City Floodplain Ordinance Creation/Updates; Zoning Regulations; Land Use Programs; Open Space Regulations	55	52	\$6,600,000
	Total	143	136	\$746,900,000

Ch. 6 Impacts of Regional Flood Plan

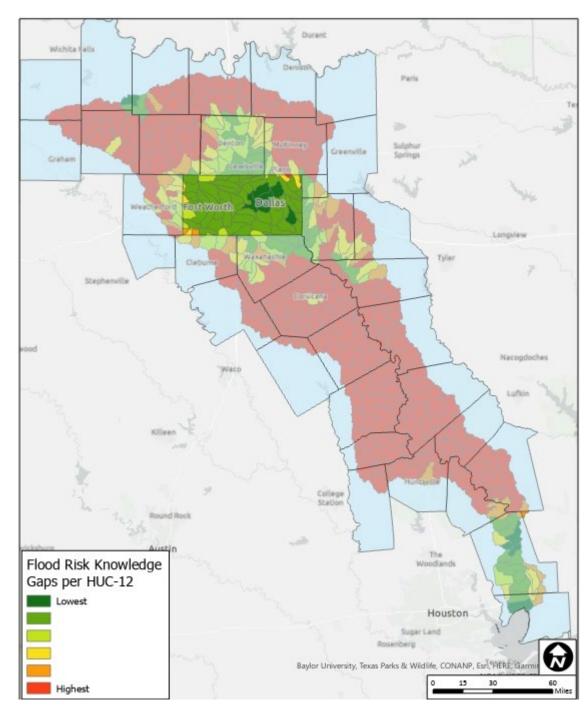
Task 6A – Impacts of Regional Flood Plan (FME)

 Total area in need of flood risk identification vs total area to be evaluated by recommended FMEs



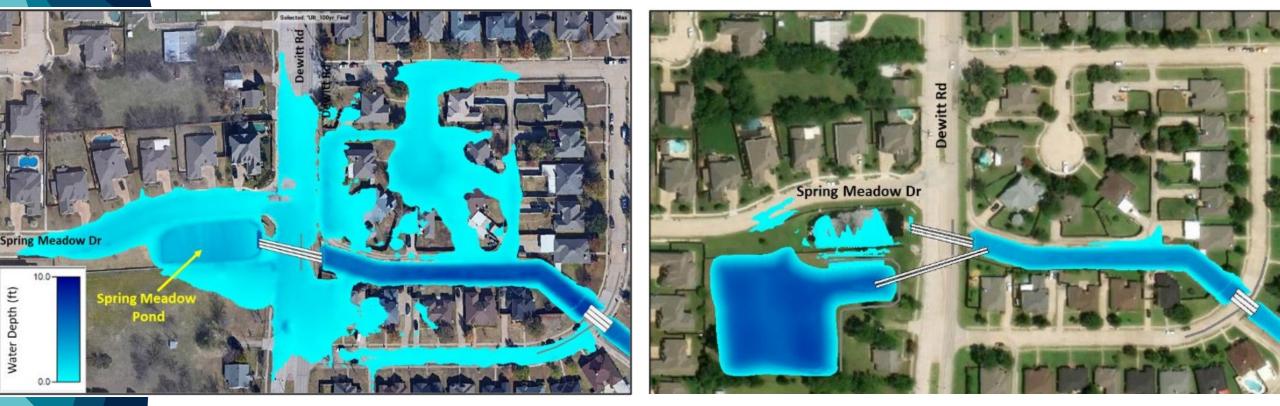
Task 6A – Impacts of Regional Flood Plan (FME)

- ~70% of mapped areas are considered outdated and/or approximated.
- ~38,000 stream miles were classified as outdated and/or approximated.
- RFP includes **35** county-wide FMEs to improve mapping coverage
- Recommended FMEs would provide up-to-date mapping for ~9,500 stream miles (25%).



Task 6A – Impacts of Regional Flood Plan (FMP)

• Show impacts of implementing entirety of Trinity RFP in terms of the relative reduction in flood risk for the 100-yr and 500-yr storm events



Existing Conditions 100-yr Floodplain

100-yr Floodplain after FMP implementation (new detention pond)

Task 6A – Impacts of Regional Flood Plan (FMP)

• Summary of Impacts of Recommended FMPs (7) for the 100-yr flood event

Flood Exposure*	Existing Conditions	After FMP Implementation	Exposure Reduction from FMPs
Exposed Structures	1,500	1,108	392
Exposed Population	37,593	33,421	4,172
Exposed Low Water Crossings	9	2	7
Number of Road Closure Occurrences	253	192	61
Road Length (Mi.)	31	23	8

*Analysis of the 500-year flood event was not included in the H&H models provided by the potential Sponsor. Therefore, 500-year pre-project and post-project floodplain boundaries are not available for these FMPs and the specific flood exposures parameters cannot be quantified at this time.

Task 6A – Impacts of Regional Flood Plan (FMS)

• Summary of Impacts of 3 Recommended Property Acquisition FMSs for the 100-yr flood event

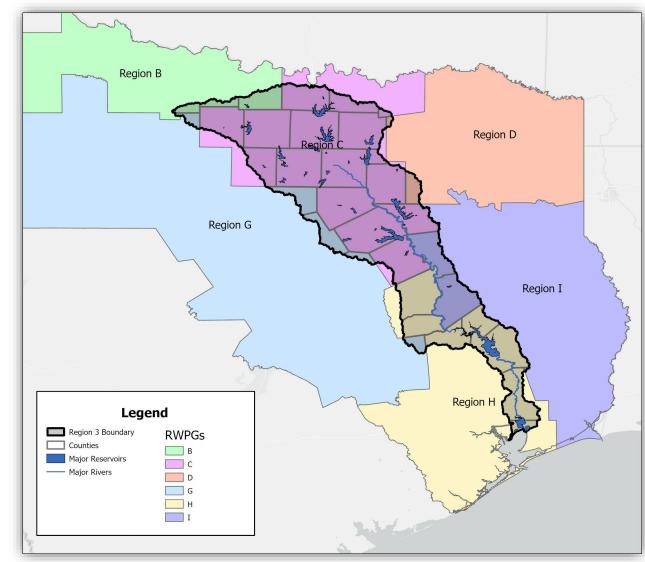
Flood Exposure*	Existing Conditions	After FMS Implementation	Exposure Reduction from FMSs
Exposed Structures	23,840	23,657	183
Exposed Population	185,050	184,843	207

*This table only demonstrates reductions for FMSs 032000061, 032000062, and 032000074.

Task 6B – Contributions/Impacts on State Water Plan

Impacts of State Flood Plan on State Water Plan

- Recommended FMSs or FMPs will not have a measurable contribution or have a negative impact on water supply or water availability
- None of the recommended FMSs or FMPs impact the operation of existing water supply reservoirs.
- The recommended FMSs and FMPs are not anticipated to have any measurable impact on water supply, water availability, or projects in the State Water Plan



Ch. 7 Flood Response Information and Activities

The Plan must contain a summary of the *current* state of flood preparedness in the region to respond to future floods, including:

A list of entities involved

A summary of the roles and responsibilities of various entities Actions taken or planned for recovery from past flood disasters in the region.

From the results of the survey, we have learned:

A comprehensive Flood Plan is not available for most participating jurisdictions Coordination between City and County entities is critical in all stages of a flood event Implementation of both online and on the ground response mitigation measures are needed

Ch. 8 Administrative, Regulatory & Legislative Discussion

Chapter 8 The Recommendations Chapter

Category	Approved	
Legislative Recommendations	8	
Administrative / Regulatory Recommendations	9	
Flood Planning Recommendations	17	
New Funding Recommendations	N/A – Existing funding opportunities identified in Plan	

- Emphasis on:
 - Counties' responsibilities and abilities
 - Acquiring/providing (State) additional funding
 - Rural/small communities

Ch. 9 Flood Infrastructure Financing Analysis

Chapter 9 – Survey Update



Funding surveys sent to Sponsors on 6/7/2022 and 6/14/2022



14% Sponsor response rate (22 of 158) (as of 7/5/2022)



Overall, there is a total cost of **\$1,076,686,000** needed to implement the recommended FMEs, FMSs, and FMPs



From the total cost, it is projected that **\$961,274,000** of state and federal funding is needed

Chapter 9 – Sponsors who have responded to the funding survey

- Anderson County
- Colleyville
- Combine
- Copper Canyon
- Corinth
- Dallas
- Dalworthington Gardens
- Decatur
- Euless
- Fannin County
- Henderson County
- Hickory Creek
- Huntsville

- Johnson County
- Keller
- Lancaster
- Liberty
- Lindsay
- Madison County
- Maypearl
- Parker County
- Polk County
- Richland Hills
- Rosser
- Southlake
- Trinity River Authority

Chapter 9 – Ongoing efforts

Increase Sponsor response rate

- Following up via phone calls
- Continue looking for better contact information to send surveys

RFPG is available for calls to address Sponsor questions

- RFPG has met with several Sponsors already
- Any edits or additions will be incorporated into the Amended Plan

Chapter 9 can be edited during the public comment period

- August 1st RFP Draft submittal
- Continue to receive responses after submittal
- Update statistics on survey

Ch. 10 Public Participation and Plan Adoption

Chapter 10: Main Sections

Overview of the Regional Flood Planning Group

Outreach to Cities, Counties, and Other Entities with Flood-Related Authority or Responsibility

Outreach to the Public

Public Hearings, Public Meetings, and Open House Roadshow

Public Input

Plan Adoption and Approval Process

Conformance with Title 31 TAC §362.3 Guidance Principles



Region 3 Trinity Regional Flood Planning Community Thursday, July 21, 2022, 10:00 am Dallas County Records Building, Results Tra



Chapter 10: Appendices

Appendix A: Informational Flyers

Appendix B: Oral Comments Received on the Draft Regional Flood Plan (to be added later)

Appendix C: Written Comments Received on the Draft Regional Flood Plan (to be added later)

Appendix D: Written Comments Received Prior to Submission of the Draft Regional Flood Plan

KTRINIT Group (Trinity RFPG) needs you!

The Trinity Regional Flood Planning

This newly formed group is responsible for developing the first-ever Regional Flood Plan for the Trinity River Basin. We need your help! Ultimately, this planning effort is important and relevant for you because projects included in the Regional Flood Plan will be better able to access future State funding.

Land use plans

Hydraulics and hydrology model

KTRINITY

is statewide designated by the Texas Water Development Bo onal Flood Plan by January 2023, which will become part of Texa of Planic 2024. The Trin ty Flood Plan will cr

tpst//trinity.halff.com/ and through the Public Co ebsite www.trinityrfee.org Weneedyduringut and

n order to be ready to participate in the data collect encourage you to gather up the following information (if available Flood early warning system information Drainage criteria mane

The Trinity Regional Flood Planning Group (Trinity RFPG) needs you!



The first-ever Regional Flood Plan for the Trinity River Basin is being developed by a new formed group and we need your help!

ment Board. Spanning a region fro north to Chambers County on the Gulf Coast, the Trinity RFPC

incimeetings, access resources, and sign up for up where you will be able to identify specific floop-prone areas y now acout. Utimately, this planning effort is important and release ecause projects included in the Regions Flood Plan will be better ple to access future State funding.

Responses to Select TWDB Comments on Tech Memo and Tech Memo Addendum

Goals

 Clarified "Establish a baseline measurement" for short-term goals by adding a "Baseline" column with text

Goals	Specific Goal Statements	Baseline	Short Term (2033)	Long Term (2053)
A	Increase the number of entities with flood warning programs that can detect flood threats and provide timely warning of impending flood danger.	Number of entities with flood warning programs	Establish a baseline measurement	Increase by 10 from 2033
В	Improve safety at low water crossings (LWCs) by adding warning systems/signage or improving LWCs in high-risk areas	Number of warning systems/ signs installed at LWCs	100 total	300 total

TWDB-required Tables, Maps and Geodatabase

- Populated required fields
- Updated/corrected identification numbers and codes
- Removed entities located outside Trinity Region
- Confirmed TWDB GIS schema was applied
- Added required features to maps, if missing

Additional notes



- TWDB guidance and checklist provided on July 1
 - Consultant Team confirming deliverables meet these requirements
 - Additional maps being developed
- Tables, maps, geodatabase, etc. will not substantially change

Consider Approval to Submit the Draft Regional Flood Plan

Process to Receive, Review and Respond to Comments Received on Draft Flood Plan

Comments on Draft Plan

- Written comments must be received by October 10, 2022.
- Consultant Team will group comments together by common topics, as appropriate.
- Consultant Team will develop draft responses to comments for RFPG's consideration.
- RFPG will consider draft responses at a RFPG meeting.
- Any additional FMXs received will be considered for potential inclusion in the amended plan (July 2023).

Public Outreach Updates



Purpose:

- Share basics about Regional Flood Planning process
- Present overview of draft regional flood plan
- Showcase recommended FMXs for each subregion
- Answer questions
- Encourage submission of written comments for consideration during fall 2022 revision process and/or subsequent amendment process

Format:

- In-person only (not hybrid)
- Not a public meeting (no quorum)
- Welcome/intro remarks by RFPG members
- Overview PPT presentation by consultants
- General public Q&A about draft regional flood plan
- Wrap up presentation, encourage attendees to visit breakout stations, ask personal questions and/or submit info



Stations around room, each staffed by consultants

Answer questions about FMXs

Each station equipped with displays or laptops with:

- Interactive floodplain map attendees may markup as needed
- Charts or maps of recommended FMXs in subregion
- Access to full draft regional flood plan
- Access to RFPG website Public Comment form, "interested party" sign-up form
- Opportunity to fill out written comment card



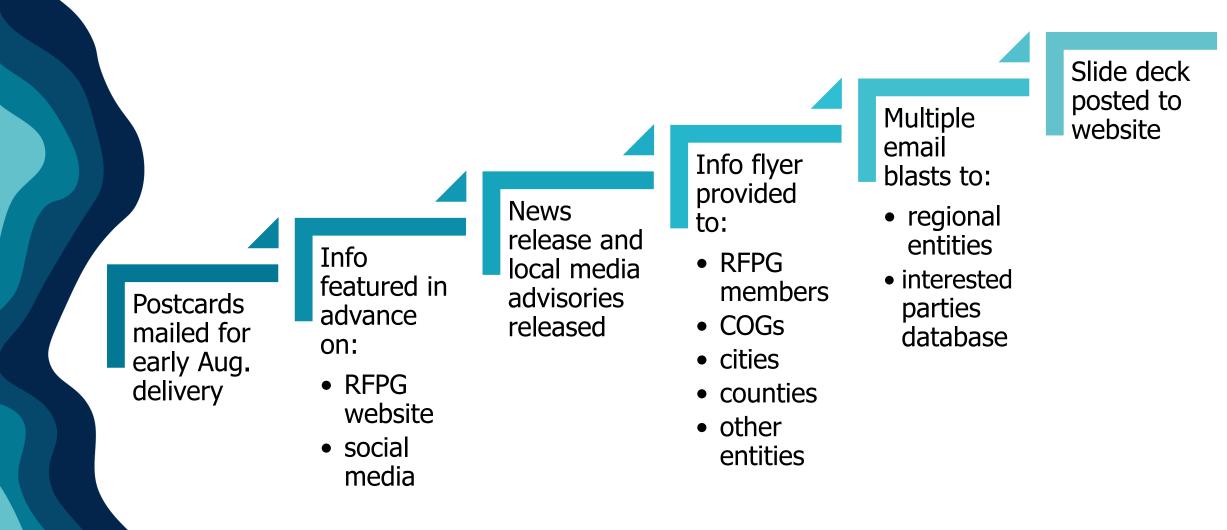
Handout

Link to RFPG website and draft regional flood plan

Info on when/how to submit public comments

Info on Sept. 8 public hearing

Contact info for submission of other questions/data



Public Hearing

When	 Thursday, Sept. 8, 2022 6:00pm – 8:00pm 	
Where	NCTCOG Transportation Council Room (Arlington)	
What	 Accept written comments 30 days before/after Oral comments must be accepted at the hearing Draft regional flood plan available online 30 days before/after Hard copy of draft regional flood plan available in three locations 30 days before/after 	
	 30 days in advance of public hearing 	

- Notice
Requirements• Provided to RFPG members, interested parties, and adjacent
RFPGs• Must include:
 - Summary of the draft regional flood plan
 - Information on how the public may submit comments

LOOK-AHEAD

August 1, 2022

 Consultant sends Draft Regional Flood Plan to TWDB

August 2022 Open Houses

- August 29 @ 5 PM: Dayton
- August 30 @ 5 PM: Crockett
- August 31 @ 6 PM : Arlington

September 2022 Meeting

• Sept 8 @ 6 PM: Public Meeting to receive comments on draft regional flood plan

Fall 2022 Meeting

- RFPG considers responses to comments on draft plan
- RFPG approves final regional flood plan
- Consultant provides update on Tasks 11, 12 and 13

January 10, 2023

 Consultant sends Final Regional Flood Plan to TWDB



February 2023 Meeting

Consultant provides update on Tasks 12 and 13

Notes: indicates target date.

Yellow highlight indicates hard deadline.

9. Updates from adjoining coastal regions

10. Updates from Planning Group Sponsor

11. Administrative costs

12. General public comments

Limit 3 minutes per person

13. Announcements

14. Meeting date for next meeting

15. Agenda items for next meeting

16. Adjourn