



Region 11: Guadalupe Regional Flood Planning Group Meeting

Wednesday, September 8, 2021
4:00pm

Agenda Item 1

Call to Order

1. Attendance

Agenda Item 2

Welcome

Agenda Item 3

Approval of Meeting Minutes

1. Approval of meeting minutes from August 4, 2021 Region 11 RFPG Meeting

Meeting Minutes
Region 11 Guadalupe Regional Flood Planning Group Meeting
August 4, 2021 at 2:00 PM
Wimberley Community Center (14068 Ranch Rd. 12, Wimberley, TX 78676)

Roll Call:

<u>Voting Member</u>	<u>Interest Category</u>	<u>Present (x) / Absent () / Alternate Present (*)</u>
Doug Miller Melissa Reynolds*	<i>Agricultural</i>	X
John Johnston	<i>Counties</i>	
Lon Shell	<i>Counties</i>	X
Bobby Christmas	<i>Electric Generating Utilities</i>	X
Annalisa Peace Vanessa Puig-Williams*	<i>Environmental</i>	X
Beth Parker Doug Sethness*	<i>Flood districts</i>	*
Kevin Stone	<i>Industries</i>	
Joseph Pantalion Laurie Moyer*	<i>Municipalities</i>	X
Ken Gill	<i>Municipalities</i>	
Dr. Kimberly Meitzen	<i>Public</i>	X
R. Brian Perkins Charlie Hickman*	<i>River Authorities</i>	X
Ray Buck Jonathan Letz*	<i>River Authorities</i>	X
Gian Villarreal Tami Norton*	<i>Small Business</i>	X
Ronald (Ron) Fieseler	<i>Water Districts</i>	X
Vacant	<i>Water Utilities</i>	

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent ()/ Alternate Present (*)</u>
Sue Reilly Beth Bendik*	Texas Parks and Wildlife Department	
Natalie Johnson	Texas Division of Emergency Management	
Jami McCool	Texas Department of Agriculture	X
Allen Nash	Texas State Soil and Water Conservation Board	X
Kris Robles	General Land Office	
Morgan White Richard Bagans*	Texas Water Development Board (TWDB)	X
Joel Klumpp Brittney Wortham-Teakell*	Texas Commission on Environmental Quality	
Don Durden	Public	X
Suzanne Scott	Region 12 Liaison	X
Patrick Brzozowski	Region 10 Liaison	

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **11**

Number required for quorum per current voting positions of 15: **8**

Other Meeting Attendees:

Lauren Willis, GBRA (Facilitator)	Michael Boese, City of Wimberley
Jay Scanlon, Freese & Nichols, Inc.	Charlie Flatten, Hays Trinity GCD
Velma Danielson, Blanton & Associates	Virgil Maldow, PEC
Alicia Reinmund-Martinez, Blanton & Associates	Kurt Buckner, PEC
Robert Ryan, Blanton & Associates	Diana Gonzales, PEC
Katie Welch, Blanton & Associates	Blake Neffendorf, City of Buda
Gilysa Garcia, Blanton & Associates	Jim Guin, TDEM
Daniel Harris, Scheibe Consulting	Marcus Pacheco, Hays County
Duke Altman, Doucet & Associates	Humberto Ramos, CRWA
Hays County Judge Ruben Becerra	Michael Sharp, City of Seguin
Anita Collins, Hays County	Sara Dishman, Wimberley
Joyce Yannuzzi, Representing Sen. Campbell	Bob Mayo, Land Owner Cypress Creek
Eugenie Schieve, Representing Rep. Zwiener	Linda Bishop, H-4 Lake Gonzales
Guadalupe County Commissioner Drew Engelke	Delton Bishop, H-4 Lake Gonzales
Comal County Commissioner Jen Crownover	Dianne Wassenich, Individual
Kerr County Commission Jonathan Letz	Ken Bennett, Center Point
Christine Byrne, Wimberley City Council	Gary Louie, Kendall
Mark Gleason, San Marcos City Council	Eric Van Gaasbeek, Hays County
John Espinoza, City of San Marcos TFMA	Ray Don Tilley, WVWA
Melissa Zwicke, Guadalupe County	Christina Lopez, Plum Creek Watershed
Shelly Jackson, Guadalupe County	Kurt Solis, Comfort Flood Plan Coalition
Mike Jones, Hays County	Sheila Stiles
Dennis Engelke, Caldwell County	Kari Potter
Nathan Glaiser, City of Wimberley	

All meeting materials are available for the public at: <http://www.quadalupeRFPG.org>

AGENDA ITEM NO. 1: Call to Order

Chairman Doug Miller called the meeting to order at 4:02 PM. Lauren Willis called roll of the planning group members to record attendance and a quorum was established.

AGENDA ITEM NO. 2: Welcome

Chairman Miller welcomed members to the meeting.

AGENDA ITEM NO. 3: Approval of Minutes from the June 30, 2021 Region 11 RFPG Meeting

Chairman Miller opened discussion on approving the minutes from the June 30, 2021 Region 11 RFPG Meeting.

A motion was made by Bobby Christmas to approve the June 30, 2021 Region 11 RFPG Meeting. Ron Fieseler seconded the motion. The meeting minutes were approved by consensus.

AGENDA ITEM NO. 4: Region 11 Guadalupe RFPG Chair Updates

Chairman Miller thanked the public for attending the meeting and briefly discussed the process of taking the public input for agenda item #10. The public would have the opportunity to give comments, the RFPG members would not address any comments and the RFPG members would be available after the meeting to have any necessary further discussion.

Chairman Miller discussed the Attendance Code of Conduct reviewing the by-laws: three consecutive absences or at least one-half of the sum of all meetings in twelve months, shall be considered in excessive absenteeism and shall be subject to removal. Five members have perfect attendance, 3 members have perfect attendance with their alternate present and the other members have missed multiple meetings. In November of 2021, the RFPG will have been meeting for one year. Chairman Miller announced that voting RFPG members will not be able to name a non-voting RFPG member as an alternate from now on.

AGENDA ITEM NO. 5: Texas Water Development Board (TWDB) Updates

Morgan White provided updates regarding the additional funding of \$10 million available September 1, 2021 to be split between 15 regions. The group sponsors and technical consultants of the 15 regions filled out surveys provided by the TWDB.

AGENDA ITEM NO. 6: Guadalupe Region 11 REFPG Sponsor Guadalupe-Blanco River Authority (GBRA) Updates

Lauren Willis thanked the public for attending and reminded everyone of the guadalupeRFPG.org website. She mentioned the first invoice for reimbursement was submitted to the TWDB for about \$2,000 and that she would be giving additional updates on spending in the future.

AGENDA ITEM NO. 7: Discussion and potential action regarding the solicitation to fill the vacant voting position in the Water Utilities interest category.

Chairman Miller announced that Joseph McDaniel resigned on Thursday, July 1, 2021 after being relocated for his job. This position will be posted for at least 30 days and will be posted on the website and emailed to the RFPG members and the County Clerks offices. The process will remain the same in selecting the new voting RFPG member, the Executive Committee will interview and provide a recommendation to the full RFPG

AGENDA ITEM NO. 8: Discussion and potential action regarding Region 11 RFPG Technical Consultants work and schedule.

Velma Danielson reviewed the Public Involvement Plan, focusing on the Public and Stakeholder Involvement Strategies (1) Public and Stakeholder Contact List, Interactive Mapping Tools and Surveys,

GBRA Website Information, Social Media, Virtual Public Meeting Format, and Public Comment Tracking Response and Reporting.

Jay Scanlon introduced Duke Altman to discuss Task 3 Flood Management/Mitigation Practices and Goals. Potential floodplain management considerations were discussed for low water crossings, buildings in the floodplain, accommodating population growth and adequacy of ongoing practices. An interactive session using Mentimeter was introduced to poll both the public and the RFPG members. The following questions were asked through Mentimeter:

1. Express with one word your top priority for the Regional Flood Planning effort?
2. Does your interest category consider these issues an impediment to effective floodplain management?
3. Select the top 3 flooding concerns for your interest category?
4. How important are the following outcomes for a successful Regional Flood Plan?
5. Indicate your initial preference with regard to regional floodplain management standards?
6. Potential Management Practices
7. Potential Goal Categories
8. Loss of Life Potential Metrics
9. Property Damage Potential Metrics

The results for the Mentimeter interactive session are located in Appendix A. Commissioner Durden commented on defining low water crossings and would like for consideration to be given to recreation and RV parks located within the floodplain. Joe Pantalione commented on defining achievability. Dr. Kimberley Meitzen commented on defining Permanent vs. Temporary structures. Morgan White commented that the TWDB is currently working on compiling a list of ordinances and current practices across the state. Jay Scanlon commented that he would provide the Texas Floodplain Management Association (TFMA) 2018 data to the RFPG.

AGENDA ITEM NO. 9: Consider date and agenda items for next meeting

Doug Miller opened discussion to consider the date and agenda items for the next meeting. The September meeting is being moved from September 1st to Wednesday, September 8th because of multiple RFPG members attending a conference.

Lauren Willis mentioned that Commissioner Don Durden was able to find a meeting location for the October meeting in Comfort at one of the camps.

AGENDA ITEM NO. 10: Pre-Planning Public Input: The RFPG is soliciting public input regarding suggestions and recommendations as to issues, provisions, projects, and strategies that should be considered during the flood planning cycle and/or input on the development of the regional flood plan (as required per Texas Water Code §16.062(d) and 31 Texas Administrative Code §361.12(a)(4) and 361.21(h)(2)(A)).

Chairman Miller gave instructions for public comment; individuals were asked to step up to the microphone and state their name and organization, public comments were limited to about 5 minutes, and a reminder was given that the RFPG members would not be addressing comments. The floor was

opened for public comments. The full list of individuals and comments can be found in Appendix B. Mr. Gary Louie provided letters to the RFPG during his public comment (Appendix C).

AGENDA ITEM NO. 11: Public General comments (Public comments limited to 3 minutes per speaker)

No additional public comments were given.

AGENDA ITEM NO. 12: Adjourn

Brian Perkins made a motion to adjourn. The motion was seconded by Bobby Christmas. The motion passed by unanimous consent.

The meeting adjourned at 6:02 PM by Doug Miller.

Approved by the Region 11 Guadalupe RFPG at a meeting held on 09/08/2021.

Brian Perkins, SECRETARY

Doug Miller, CHAIR

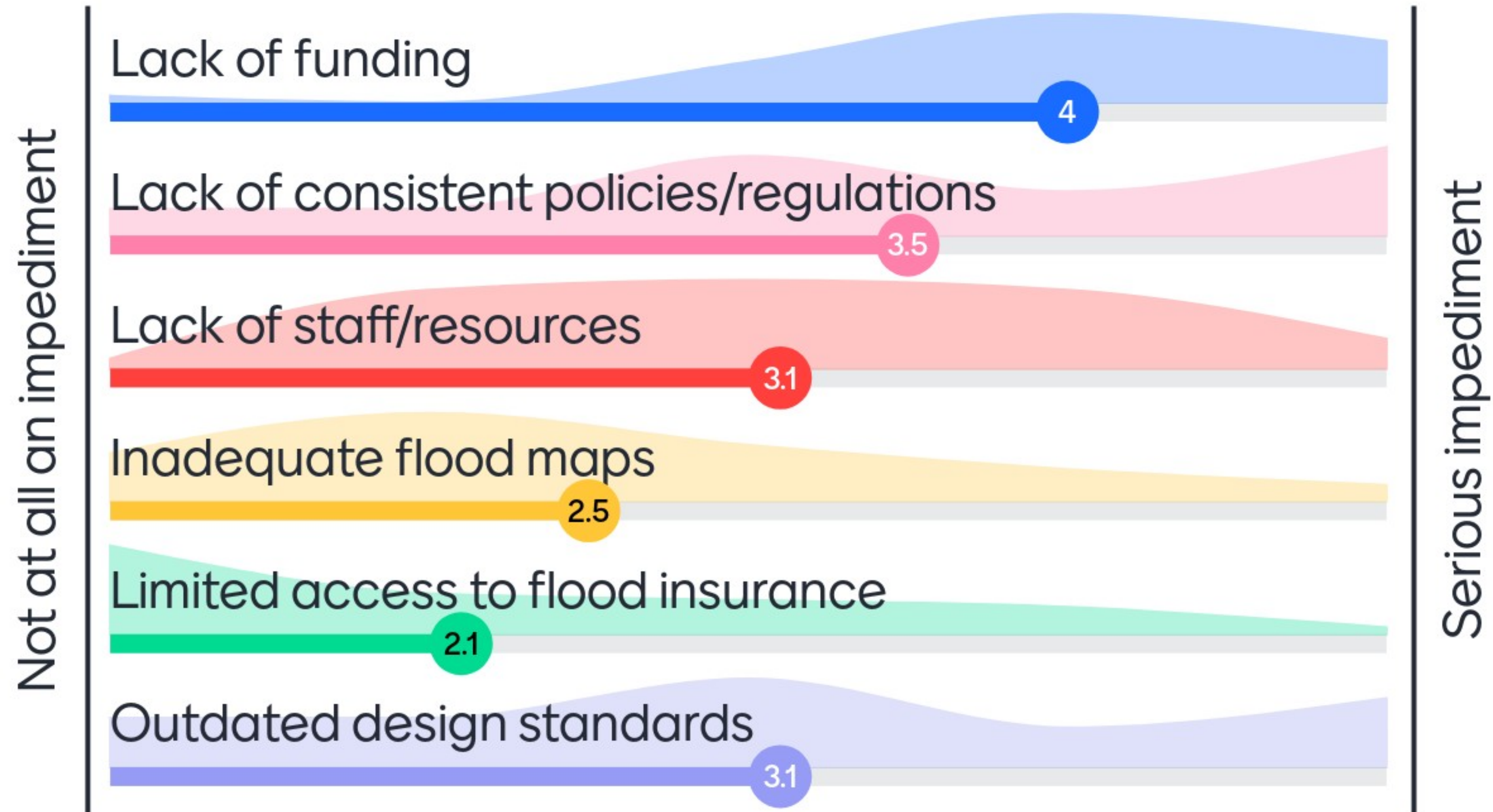
Appendix A

Mentimeter Survey Results

Express with one word your top priority for the Regional Flood Planning effort



Does your interest category consider these issues an impediment to effective floodplain management?



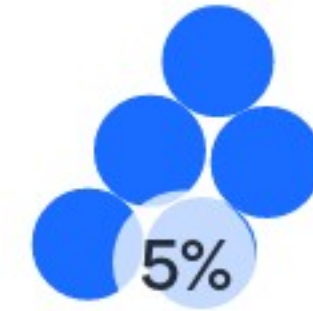
Select the top 3 flooding concerns for your interest category:



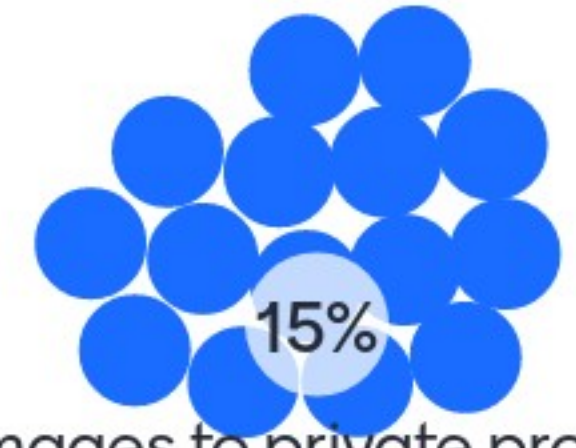
Flooded roadways



Flooding of critical facilities



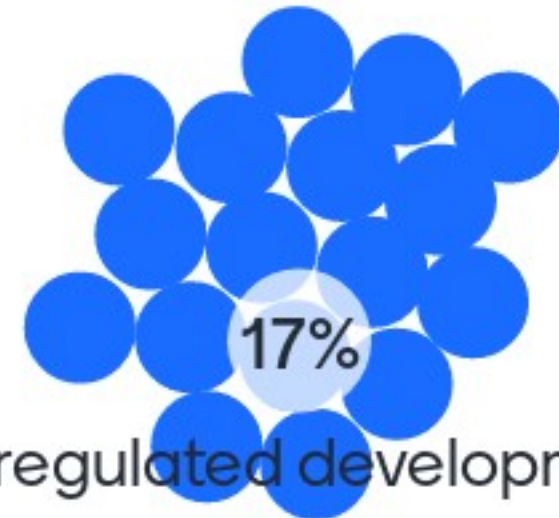
Impacts to economic & agricultural production



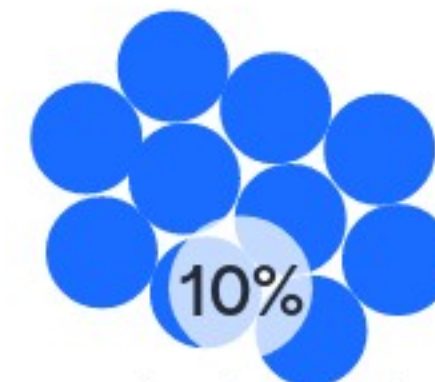
Damages to private property



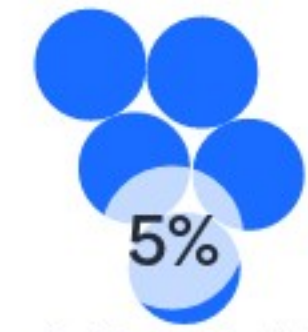
Potential for loss of human lives



Unregulated development

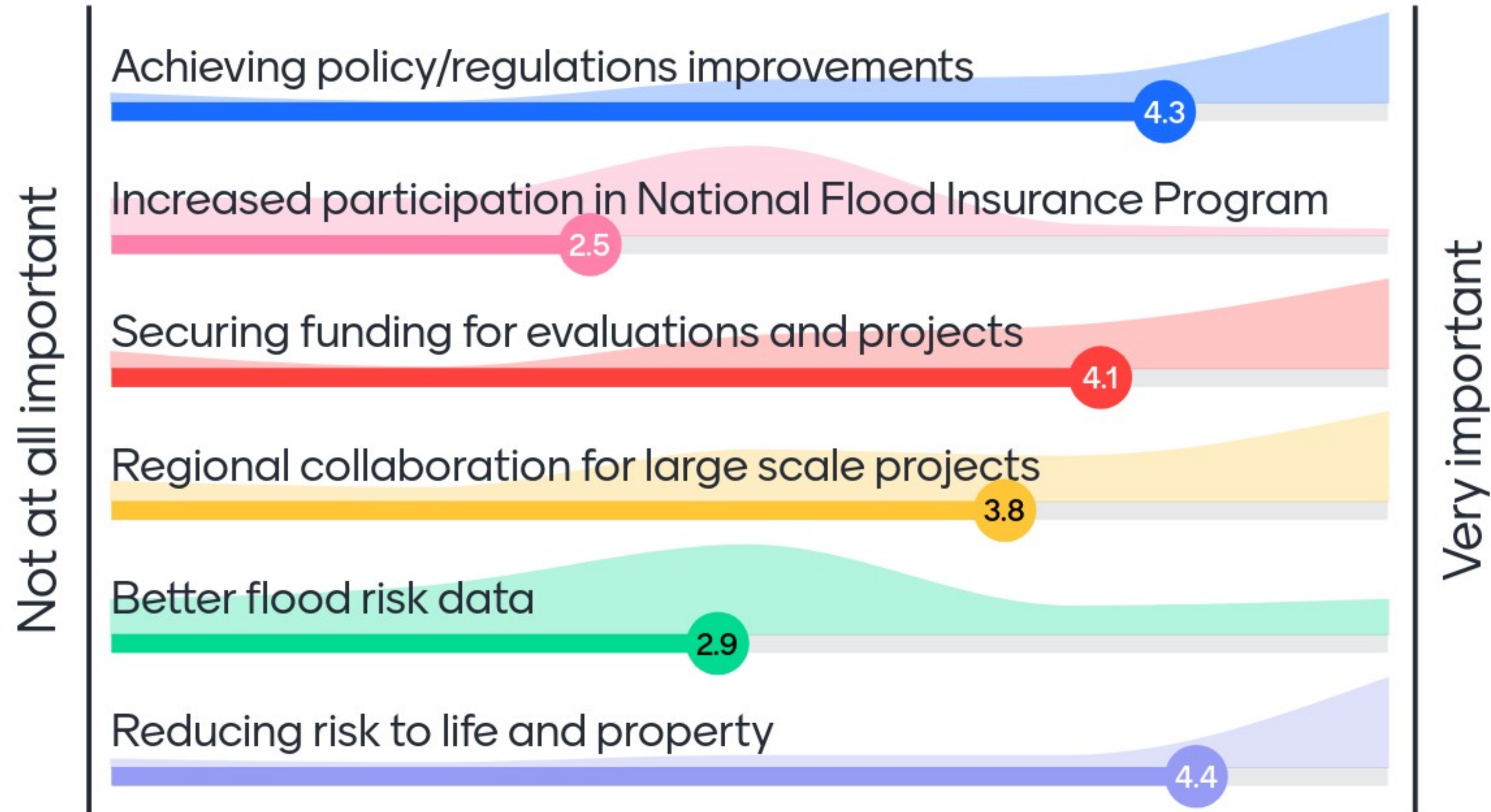


Inadequate Infrastructure

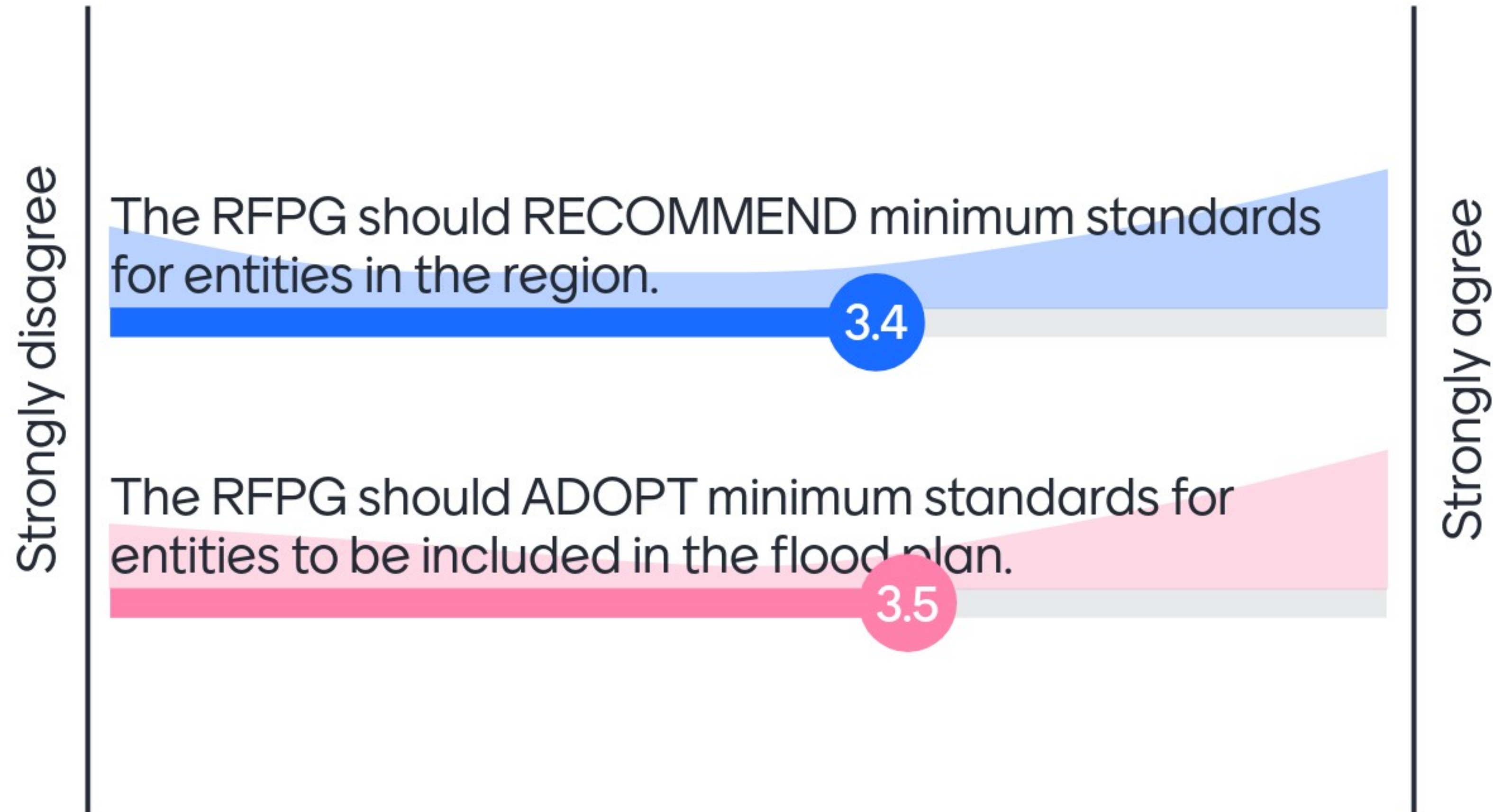


Lack of flood risk data

How important are the following outcomes for a successful Regional Flood Plan?



Indicate your initial preference with regard to regional floodplain management standards:



Potential Management Practices



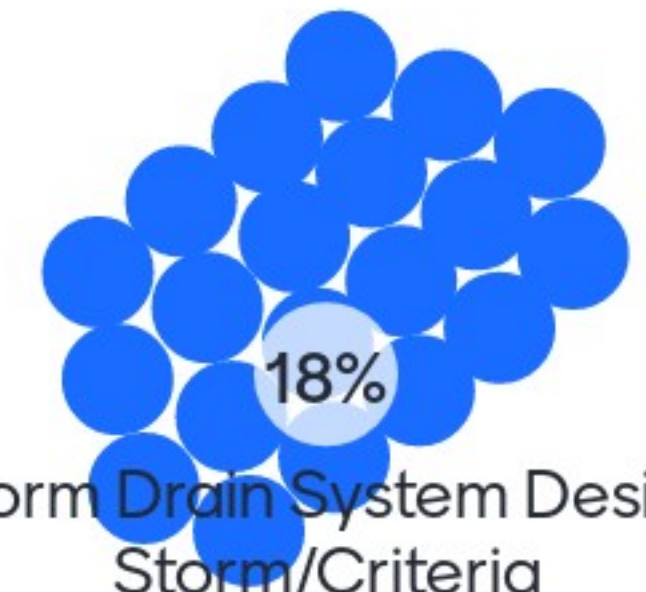
Residential and Commercial Freeboard



Critical Infrastructure Freeboard



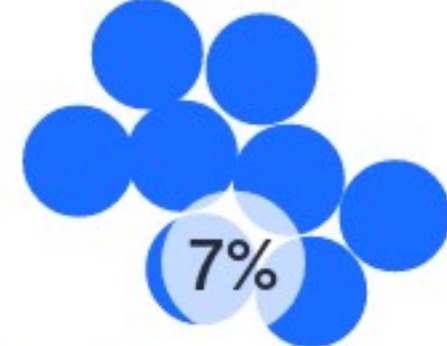
Roadway Freeboard/Overtopping



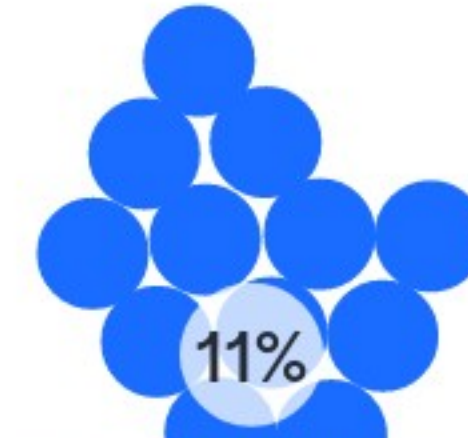
Storm Drain System Design
Storm/Criteria



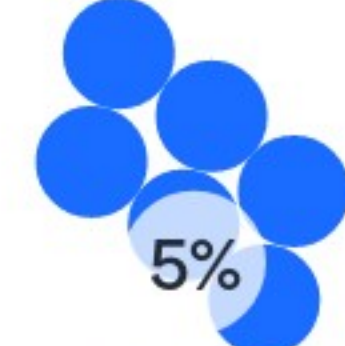
NFIP Participation



CRS Participation

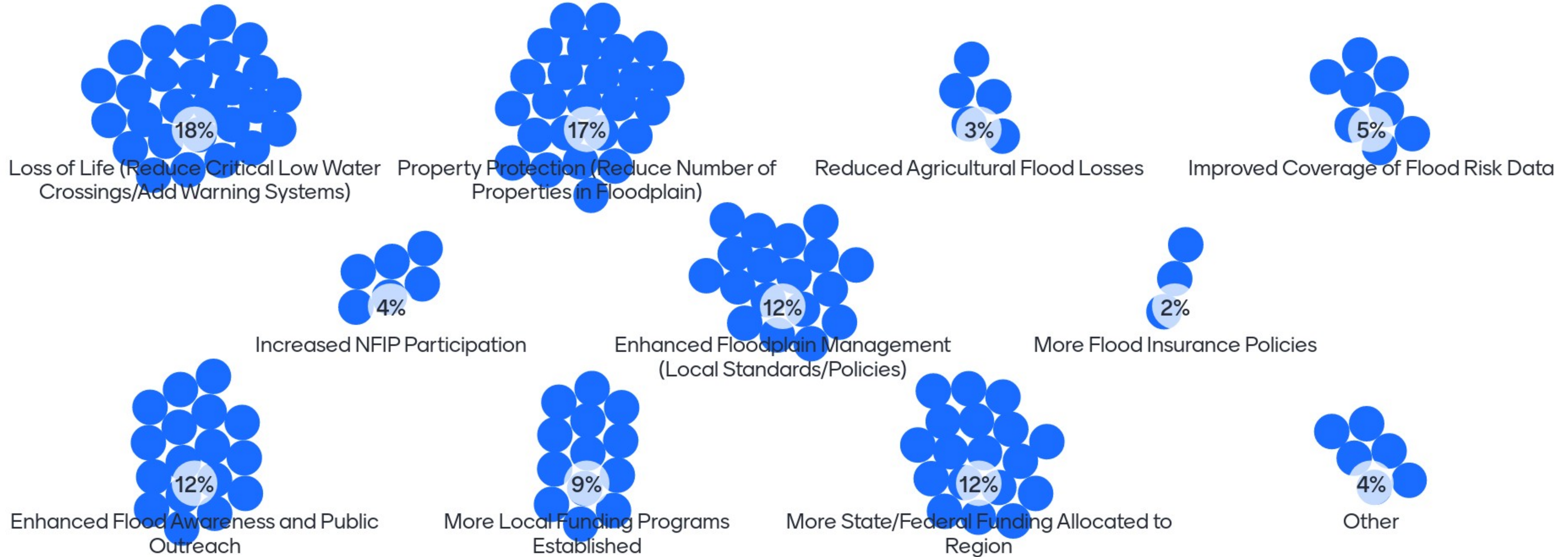


Adopt BLE as best available unless
detailed study available

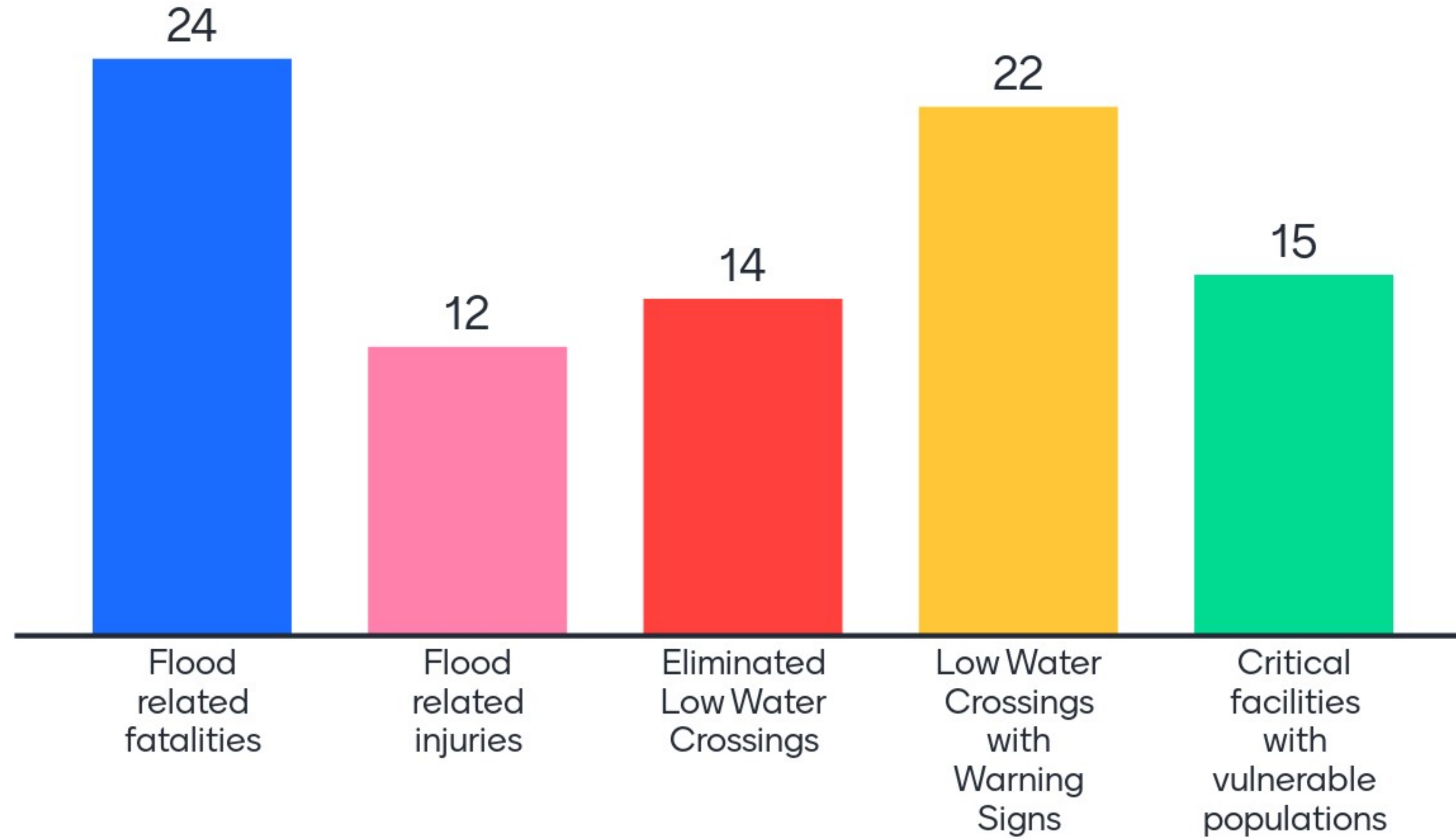


Other

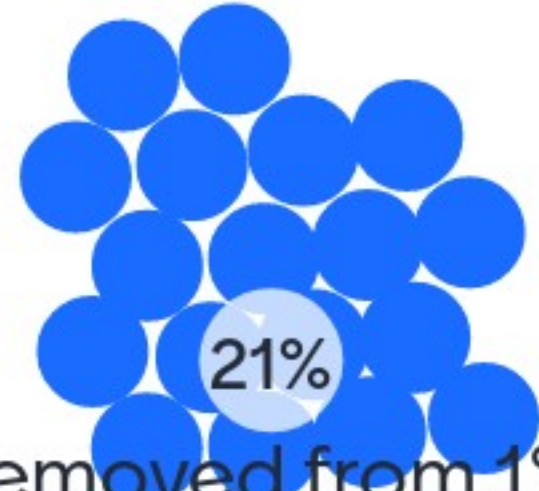
Potential Goal Categories (select all that apply)



Loss of Life Potential Metrics



Property Damage Potential Metrics



Structures removed from 1% (100-year)



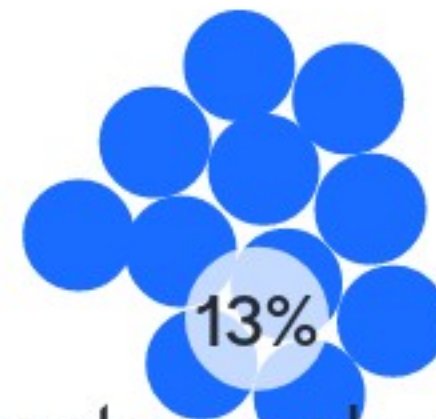
Critical facilities removed 0.2% (500-year)



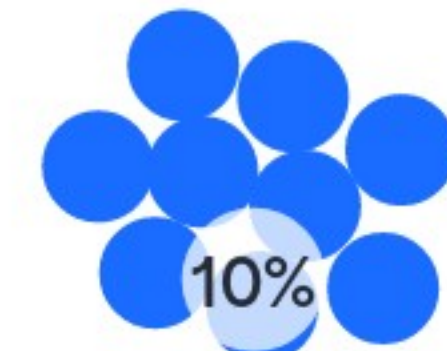
Structures removed from 10% (10-year)



Structures acquired (bought & demolished)



Structures elevated



Structures flood proofed

Appendix B

Matrix – Stakeholder/Public Comment

NAME/AFFILIATION	STAKEHOLDER/PUBLIC COMMENTS
<p style="text-align: center;">Dianne Wassenich/ Individual</p>	<ul style="list-style-type: none"> • Mrs. Wassenich is a resident of San Marcos. She indicated that she was very interested and concerned about recreational development within floodplain. • She noted that during future flooding events, debris from these developments could potentially become a “battering ram” downstream. • Mrs. Wassenich also emphasized that land conservation measures, especially of riparian areas and in the 100-year flood plain, need to be implemented. • She suggested that these lands should be bought, and that funding for this measure should be the highest priority. • Mrs. Wassenich also suggested that land at higher elevations should be open and undeveloped. • Mrs. Wassenich stated that the City of San Marcos did a “sensible” thing by increasing the elevation at which development can occur and changing the floodplain elevation from 1ft to 2ft. • She would like the floodplain raised from 1ft to 2ft elsewhere. • Lastly, Mrs. Wassenich emphasized the importance of purchasing land.
<p style="text-align: center;">Gary Louie/Individual</p>	<ul style="list-style-type: none"> • Mr. Gary Louie is a resident of Comfort, Texas. • Mr. Louie noted that the funding for an early warning system is of importance. • Mr. Louie provided several letters to the RFPG regarding an early warning system and concern for loss of life, and he stated that the funding of an early warning system is affordable and timely. • Mr. Louie also stated that restrictors and retention devices will result in less property damage and provide some long-term economic benefits. • Mr. Louie would like to ensure that any projects keep the downstream in mind.

NAME/AFFILIATION	STAKEHOLDER/PUBLIC COMMENTS
<p style="text-align: center;">Bob Mayo/ Individual</p>	<ul style="list-style-type: none"> • Mr. Bob Mayo is a resident of Comfort. • Mr. Mayo was interested to know how much funding is available for these projects. • Mr. Mayo also mentioned that people have been getting drinking water out of Cypress Creek. • He noted that development on the land between the Cypress Creek and the river is not possible and suggested turning the area in to a lake. • Mr. Mayo also cited a concern over the pumping of water to the cities. • Mr. Mayo asked if desalination studies have been completed. • Mr. Mayo would like to keep farmland in consideration during flood planning.
<p style="text-align: center;">Linda Bishop/ Individual</p>	<ul style="list-style-type: none"> • Mrs. Linda Bishop, a landowner on Lake Gonzales, expressed concern regarding a non-responsive gate on the dam. • She stated that the gates were up and down throughout the day of August 4th. • Mrs. Bishop also noted that a news service came to her property to report on the issues at the dam. • Mrs. Bishop also expressed concern over the homes in Gonzales and Cuero that were destroyed and is afraid that will happen to her property. • She stated that as of August 3rd, both gates were down at the Lake Gonzales Dam. • Mrs. Bishop stated that “those dams need to be in place for the next flood. Now there is no H-5, and no dam for Lake Gonzales.” • Mrs. Bishop noted that she is afraid Lake Gonzales will be drained like Lake Dunlap. • Mrs. Bishop wanted to clarify that she did not contact the news service to come to her property.

NAME/AFFILIATION	STAKEHOLDER/PUBLIC COMMENTS
<p style="text-align: center;">Sara Dishman/ Individual and former City of Wimberley Councilmember</p>	<ul style="list-style-type: none"> • Mrs. Sara Dishman stated that she is a Hays County resident and a former City of Wimberley Councilmember. • Mrs. Dishman noted that rock wall structures with stairs have been built along the river to create easy access to the river. • Mrs. Dishman emphasized that this development was dangerous. • Mrs. Dishman stated that she was present during the flood in 2015. She noted that six years have passed, and people have forgotten. • Mrs. Dishman commented that current officials are not making flood planning a priority. • Mrs. Dishman emphasized the importance of disseminating information to local governments, and said that communication is lacking, and that city elected officials are not aware of flooding issues. • She then cited the lack of communication has led to local governments not enforcing rules, which would have prevented the development of the rock walls along the river. • Mrs. Dishman wanted construction activities along the river to be better enforced and regulated. • Mrs. Dishman wanted to ensure that municipalities have the information needed so that the rules don't change when the people in charge change. • Mrs. Dishman wanted rule enforcement to be more consistent from the City of Wimberley and believed there is a gap in communication between the City of Wimberley and the citizens.
<p style="text-align: center;">Commissioner Jonathan Letz/ Kerr County</p>	<ul style="list-style-type: none"> • Commissioner Letz noted that Kerr County is part of five river basins, making it difficult to plan for. He encouraged that there should be direct communication with county judges and mayors. • Commissioner Letz stated that conservation priorities will have a huge impact on water quality and runoff. • Commissioner Letz noted that he would like to take into consideration conservation efforts, partner with NRCS, and keep water quality in mind. • Commissioner Letz also noted that RV parks need to be looked at. • Commissioner Letz notified the RFPG that Kerr County will be submitting three flood planning projects, and he wanted to know how to do that and what the deadline for submission was. • He also stated that there will be two joint projects from Kendall/Kerr counties that will be submitted to the RFPG.

NAME/AFFILIATION	STAKEHOLDER/PUBLIC COMMENTS
<p style="text-align: center;">Dennis Engelke/ Caldwell County staff</p>	<ul style="list-style-type: none"> • Mr. Engelke stated that Caldwell County has been identified as a natural disaster county many times. • Mr. Engelke stated that flood planning will take a collaborative effort. He wanted to work collaboratively with this RFPG. • He encouraged county officials to get involved in the flood planning process. • Mr. Engelke noted that Caldwell County has applied for a grant to develop a (flood) management plan and has utilized existing resources. • He suggested that others take advantage of the existing resources, such as TWDB grants. • Mr. Engelke also noted that Caldwell County is involved in a buy-out program to turn previously flooded properties into green space. • Mr. Engelke wanted to encourage local governments to work together to solve this problem and thanked the RFPG for being an available collaborative resource. • Mr. Engelke also made note of the growth in Caldwell County.
<p style="text-align: center;">Raymond Slade/Individual</p>	<ul style="list-style-type: none"> • Mr. Slade submitted his comments through the Guadalupe RFPG Virtual Public Meeting website. He requested that the following comments be read to the RFPG: “As a hydrologist my studies have included the Guadalupe River. I published a report about flood peaks on the river. The study documents that annual peaks have increased 38 % for the river at Spring Branch. Because of this the 100-year flood plain as published is too low. This is because the flood plain is based on historic data but does not represent increased floods. I was in contact with NOAA about Atlas 14 which represents the current floodplain. They agree with me about this problem but do not have the authority to include increased floods in the creation of the current Guadalupe River floodplains. Any questions about this can be sent to me.”
<p style="text-align: center;">Kari Potter/Individual</p>	<ul style="list-style-type: none"> • Mrs. Potter was concerned about proposed high density developments in eastern Kerr County near the Guadalupe River. • She expressed concern that these developments and their impervious cover will have runoff that will go directly into the Guadalupe River and potentially impact drinking water downstream She noted that there will be 300 houses and RV lots. • Mrs. Potter commented that high density developments could be an issue and was concerned about their environmental impact.

NAME/AFFILIATION	STAKEHOLDER/PUBLIC COMMENTS
<p style="text-align: center;">Mark Gleason/ City of San Marcos Councilmember</p>	<ul style="list-style-type: none"> • Mr. Gleason stated that he was acting on his own behalf. His property was flooded twice in 2015. • He mentioned that the Blanco River doesn't have any flood control measures and wanted to know if there have been any studies completed. • Mr. Gleason stated that "we should be looking at this (flood planning) regionally." • Mr. Gleason wanted the group to look at the Blanco River. He noted that the Blanco River has thousands of structures built within the floodplain that can't be bought out. • He emphasized that there is a need to implement projects for the Blanco.
<p style="text-align: center;">Jim Huen/Texas Division of Emergency Management</p>	<ul style="list-style-type: none"> • Mr. Huen is the Region 6 floodplain coordinator. He mentioned that he can offer help with hazard mitigation grants.

Appendix C

Emails and letters submitted to RFPG on August 4, 2021

Beth Bourland
#10 High Street Road
Comfort, Texas 78013
bethbourland@hotmail.com

August 4, 2021

Don Durden,
Kendall County Commissioner Precinct 4
201 E. San Antonio Ave.
Boerne, TX 78006
don.durden@co.kendall.tx.us

Via email

Dear Don,

I have lived in Comfort for 36 years. My husbands' family has lived here since the early late 1900s. Our interest in flood management planning arises from both personal observation and historic understanding of the confluence of the Guadalupe River and Cypress Creek. We applaud comprehensive floodplain management strategies that consider structural and nonstructural programs on both waterways.

We support state and local flood mitigation plans that can reduce disaster losses and break the cycle of disaster damage, reconstruction, and repeated damage. Measures that arise from this work will save lives and advance community endorsed initiatives such as capital improvements, economic development, environmental quality, and riparian preservation.

Stream monitoring and early warning notification systems for flash flooding on Cypress Creek would be relatively low-cost and life saving measures that would allow residents and emergency services to respond quickly and appropriately. We consider this to be a priority.

Given that increased development along the Cypress Creek is occurring and will continue to escalate, stream monitoring will also allow us to better understand the impact of growth on the nature of flooding and quality of the water source.

Flood control on the Guadalupe River is also critical to the community. Of particular concern are the effects of high magnitude, low frequency flooding that damages the bedrock channel stream of the river. The effects of gravel deposits over time in the base flow channel chokes effective drainage at meanders and tributaries such as the point of confluence of the Guadalupe River and Cypress Creek. This increases the threat of flooding in the community and forces flood water to scour the natural riparian functions of the banks on both water ways.

Structural methods such as retention ponds or levees, and diversion channels along the Guadalupe River and the Cypress Creek, where feasible, would provide an opportunity to control rising water more effectively reducing damage to properties. Integrating retention and detention measures into developments, using floodplains for green space or parks that will hold and spread out water during floods could be beneficial. Such measures provide improved safety of all downstream communities, offer a chance to develop alternative water sources for residents of the area or enhance recreational options.

Thank you for the opportunity to address the Guadalupe Region 11 Flood Planning Group through this letter and your volunteer service on the committee.

Sincerely,

Beth Bourland

Commissioner Durden,

3 August 2021

I am writing as an individual stakeholder and as an interested party of the Comfort Floodplain Coalition to voice my support for stream monitoring stations & early high water/flood warning systems in and around Comfort and upstream on the Cypress and Guadalupe stream/river systems. As you are aware, in our community Cypress Creek has no flow or height monitoring installations, resulting in deadly surprises, giving emergency services little to no warning to evacuate residents, close roads and save lives. Early warning and stream monitoring may be considered small, but it can be very effective at saving lives and providing important historical data to improve future decision making.

At the same time, I believe no flood mitigation project In the Guadalupe River Basin (GRB) should be disregarded because of cost. The various projects underway and the execution of a GRB Flood Master Plan will be critical to all entities in the GRB, especially Kendall County. Easier said than done because of the many jurisdictions involved.

For our community, I believe an early warning system is our closest “alligator to the boat” and the most cost-effective item of the many other projects, such as retention dams, that may take years or even decades to implement.

Sincerely,
Craig McDonald
409 Broadway
Comfort, TX

GARY A. LOUIE

P.O. Box 905 * 126 Idlewilde Blvd * Comfort, TX 78013
281-221-0132 * gary.a.louie@gmail.com

August 4, 2021

Doug Miller, Chair
Guadalupe Regional Flood Planning Group #11

cc: Kendall County Commissioner Don Durden

Chairman Miller and Planning Group,

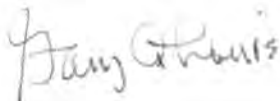
Even though my wife and I do not live directly in the floodplain or floodway of the Guadalupe River or associated tributaries, we are quite concerned about the safety, security, and general economic impact of flooding along the watershed in Comfort.

I appreciate that issues of drainage, retention, and flooding can be complicated and expensive. The heavy rain events during the past few months have brought to light how quickly streams and tributaries can fill, causing dangerous situations for residents and travelers, especially at low water crossings.

My first suggestion for the Planning Group is to consider **funding of an Early Warning System** to protect lives. My understanding is that a system of this nature is affordable and can be implemented in at reasonable time frame.

Longer term, I hope that the Planning Group will **invest in flood control measures** that eventually will help control problems downstream. Thoughtful development of restrictors and retention devices both save lives and protect property, but have the added benefits of creating much needed water supplies as well as economic benefits for the region and state.

Your efforts to address flooding is much appreciated,



Gary A. Louie

Guadalupe Regional Planning Group
August 2, 2021

Dear Committee Members:

As property owners in Comfort, Texas, and more specifically, property owners affected by potential flooding of Cypress Creek, my wife and I encourage the committee to seriously support all efforts to mitigate flooding of this waterway. Our property is located at 228 Broadway Street.

Due to the history of flooding on Cypress Creek, structural mitigation projects are definitely the most advantageous actions to be taken to alleviate this problem. Such projects can potentially reduce the flooding itself, while also providing additional fresh water supply for the Comfort area. Such structural mitigation could go far to prevent loss of life and property damage.

Additionally, the installation of stream monitoring stations and early warning systems on Cypress Creek will provide emergency services time to warn and evacuate those residents living nearby. My wife's mother and step-father were evacuated on two separate occasions from this property when Cypress Creek flooded during night time hours.

Based upon historical events, the Cypress Creek area should be a prime candidate to receive funds to finance drainage, flood mitigation, and flood control projects along this waterway.

Sincerely,



William G. Mears



Kathryn B. Mears

don.durden@co.kendall.tx.us

From: Marcy Downey Dunn <marcyrdowney@yahoo.com>
Sent: Saturday, July 24, 2021 7:57 AM
To: don.durden@co.kendall.tx.us
Subject: Flood planning meeting

Don, please push for a complete and safe flood resolution. 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 life, our businesses...we must improve things!

Thanks you for all your hard work and dedication to our community needs.

Marcy and Neil Dunn

don.durden@co.kendall.tx.us

From: Steve Spence <saspence@hctc.net>
Sent: Sunday, July 25, 2021 9:02 AM
To: don.durden@co.kendall.tx.us
Subject: Ref: Flood protection in the Comfort area

Dear Commissioner Durden,

Many thanks for your continued efforts to promote flood mitigation and early warning systems in the elevations above Comfort. The recent establishment of the Guadalupe Regional Flood Planning Group give us a great opportunity to present our ideas and eventually get the appropriate funding to relieve property damage and loss of life as the result of flooding on the Guadalupe River and Cypress Creek.

I suggest the first order of business would be to install automated early warning systems which can be done at minimal expense then followed by structural solutions such as off channel reservoirs, aquifer storage and recharge wells, and aquifer recharge dams.

During heavy rains the Highway 27 bridge across Cypress Creek always gets blocked by dead trees creating a dam that backs up water into the nearby homes and businesses. An effort should be made to clear out the creek bed (with the consent of the landowners) for some distance, say a quarter of a mile, upstream of the bridge.

Thanks again for your help.

Steve Spence

From: ctrono@gmail.com
Sent: Monday, July 26, 2021 11:30 AM
To: don.durden@co.kendall.tx.us
Subject: Region 11 Flood Planning Group

Dear Commissioner Durden:

I am writing to urge the Regional Planning Group 11 to address the flooding issues, lack of early warning and need for surface water supply in the Comfort area, especially relating to Cypress Creek.

Specific items I urge the Group to consider include the following:

- To prevent loss of life and property, structural mitigation is the preferred type of project, especially when constructed in such a way that the structure not only reduces flooding, but also adds a new fresh water supply and potential recreational benefits.
- To prevent loss of life only, stream monitoring stations & early warning systems are essential and very cost effective. Large tributaries, such as the Cypress Creek, have no flow or height monitoring installations, resulting in deadly surprises, giving emergency services little to no warning to evacuate residents, close roads and save lives. These devices will also provide historical data to better understand flooding in Texas.
- Cost benefit calculations must take into account flood impact mitigation/protection in downstream communities all the way to the coast, as well as any benefits related to increased fresh water supply, quality of life and recreational implications. Reducing flooding in Comfort reduces flooding dangers in Sisterdale, Bergheim, Spring Branch, Canyon Lake, San Marcos, etc., and those benefits should be taken into account.
- Taking water supply into account is essential and will show that many structural flood mitigation projects are economically feasible due to the multiple positive effects of said structures. You cannot ignore the water supply benefits when areas such as Western Kendall County are forecast to suffer severe water shortages over the next 40 years, according to the 2010 Regional Water and Wastewater Study conducted by AECOM.
- No minimum project should be disregarded. Early warning and stream monitoring may be inexpensive and considered small, but it is very effective at saving lives and providing important historical data to improve decision making in the future.

Thank you for your time and consideration of these suggestions and issues.

Regards,

Carol & Ruben Trono

160 Antler Falls Run

Comfort Texas 78013

July 25th, 2021

Maria C. Villanueva
618 Water St.
Comfort, Texas

Alfredo and Yolanda Arizola
612 Water St.
Comfort, Texas

To Regional Planning
Group 11.

First, we would like to extend our appreciation with the volunteers, who in their efforts, are committed to the general management of problem solving, strategizing and striving for improvements dealing with pre and post flood consequences.

We are aware of the negative impacts with flooding in our community and have directly experienced the destruction of our homes on Water Street, Broadway and surrounding neighborhoods, which caused displacement and loss of property. The loss of loved ones, although indirectly, had a deeper impact that was traumatic for all of us in the years past. The experience of hesitation, fear and facing an indecisive state of mind during impending floods has been emotionally overwhelming for many residents. In the past and present we rely on communication from local news-worthy channels, community fire departments, networking and other resources of information focusing on current weather conditions, flood warnings, etc. Those of us living in the flood zone areas rely on the senses of past experiences and can determine a more rapid direction of thought, however, they must still follow direction from local emergency organizations and responders connected with the community.

In 2016, Comfort, Texas experienced a flash flood event that completely overwhelmed the community, without warning, no communication of evacuation within flood zone, no efforts in providing barriers, no visible signs of responders going door to door reaching out to evacuate, as in the past. We all know how devastating it is to succumb to these forces of nature beyond our control.

Regarding "who" should be responsible in providing flood warning systems is still uncertain to most of us. We truly believe that Education should be an important variable in allowing influences on all opinions, setting clear lines of responsibility, coordinating flood information that dispenses heightened awareness within the local flood zone community. Our families have been to Town meetings when topics are introduced for the purpose of communication or Q & A's involving community input. Comfort flood zone residents would have a better outcome and be more effective in understanding the strategies and preparing ahead with group meetings such as Comfort Floodplain Coalition provides. This group is a new avenue for our family and will certainly take the opportunity to be more proactive in the involvement and information it provides.

Our opinion...We need a more reliable flood warning system along with better flood preparedness measures so that people in this community can take action that further minimizes flood destruction of life and property. Too many years have passed in the attempts of minimizing flood impacts. Why are the creek beds and rivers still without sensors, devices and dams that could minimize the flow of flood waters and send out alerts? We understand the funding issues, budgets and constraints along with all the Regional and State involvement; however, the frustration lies within those who can make decisive action plans. We need greater clarity on responsibility for issuing effective flood warnings.

Thank you for the opportunity in hearing our sincere opinions and thoughts relating to Flood issues at hand.

Respectfully,

Yolanda Arizola
Yolanda Arizola

Alfredo V. Arizola
Alfredo Arizola

Maria C. Villanueva
Maria C. Villanueva

August 1st, 2021

Emmanuel Flatten
417 Water St.
Comfort, Texas

To Regional Planning Group 11:

Thank you for your efforts to improve Texans' safety and security by addressing the significant flood dangers along the Guadalupe River and major tributaries. To achieve such ends, I believe stream monitoring, early warning and structural flood mitigation are necessary on the Cypress Creek, upstream of Comfort, Texas.

In 2016, a flash flood on the Cypress Creek surprised residents sleeping in their beds and emergency responders alike. With no warning, everyone was caught off guard, resulting in the death of a young woman. Her car was swept away less than thirty feet from my property line. A small memorial near my home reminds me of her family's loss daily. Had flow monitoring and early warning been in place, their tragic loss may have been avoided. Had structural mitigation been in place, the waters might never have reached homes in the first place.

I implore you to prioritize projects near the community of Comfort, and take the following into account:

Prevent loss of life by implementing stream monitoring stations & early warning systems, which are essential and very cost effective. Large tributaries, such as the Cypress Creek, have no flow or height monitoring installations, resulting in deadly surprises, giving emergency services little to no warning to evacuate residents, close roads and save lives. These devices will also provide data to better understand flooding in Texas.

Prevent loss of life and property by implementing structural flood mitigation. Cost benefit calculations should consider flood protection in downstream communities all the way to the coast, as well as any benefits related to increased fresh water supply, quality of life and recreation. Peak flow reduction in Comfort reduces flood dangers in Sisterdale, Bergheim, Spring Branch, Canyon Lake, etc.

Structural flood mitigation projects are economically feasible when the multiple positive effects are considered. The potential increase to water supply should not be ignored when areas such as Western Kendall County are forecast to suffer a 50% water supply shortfall by 2040, according to the 2010 Regional Water and Wastewater Study conducted by AECOM.

Thank you for the opportunity to make our voices heard and for working toward the betterment of Texan lives.

Sincerely,

Emmanuel Flatten

3 August 2021

To: Region 11 Flood Planning Group, Meeting 8/4/2021, Wimberly TX

Subject: Proposition 8 legislation, "The constitutional amendment providing for the creation of the flood infrastructure fund to assist in the financing of drainage, flood mitigation, and flood control projects."

My spouse and I are long-time residents of Kendall County, residing in Comfort near the confluence of the Guadalupe River and Cypress Creek. Our residence/property is on Cypress Creek (highway 27 bridge). I am also a 'grassroots' member of the Comfort Floodplain Coalition (CFC) which, since its inception in 2011, has been seeking ways to mitigate flooding in the greater Comfort area, which as you know is subject to significant flooding events resulting in property damage and most importantly, loss of lives.

To that end I offer some feedback/comments as requested by the organizers of this Region 11 Planning Group:

Structural mitigation, e.g. upstream dam(s), retention ponds (in Kerr County) is the preferred type of project, especially when constructed in such a way that the structure not only reduces flooding, but also adds a new fresh water supply and potential recreational benefits.

To prevent/minimize loss of life, stream monitoring stations & early warning systems are essential and very cost effective. Large tributaries, such as Cypress Creek, have no flow or height monitoring installations, resulting in deadly surprises, giving emergency services little to no warning to evacuate residents, close roads, etc. No minimum project should be disregarded. Early warning and stream monitoring may be relatively inexpensive, but it is very effective at saving lives.

As well, reducing flooding in Comfort reduces downstream flooding/dangers in Sisterdale, Bergheim, Spring Branch, Canyon Lake, San Marcos, etc.

These measurement systems/devices will also provide historical data to better understand flooding in Texas.

Upstream structural flood mitigation projects will concurrently enhance the water supply and benefits areas of Western Kendall County which are forecast to suffer severe water shortages over the next 40 years (according to the 2010 Regional Water and Wastewater Study conducted by AECOM).

I trust that the above comments are of considered value to the Region 11 Flood Planning group work efforts.

Sincerely,
Kurt Solis
4 Country Lane
Comfort, Texas 78013
(832) 489-6236

Amy Sinclair
Comfort, TX 78013

August 1, 2021

Regional Planning Group 11:

I appreciate your efforts to address flooding issues affecting communities along the Guadalupe River. Living on Cypress Creek for 17 years, I've experienced two significant floods and can attest to the need for reliable early warning systems in our area. Every time we have substantial rainfall, I suffer anxiety knowing there is no flood protection whatsoever, and I might receive no warning before the floodwaters enter my bedroom.

As I'm sure you're aware, Comfort's population has been growing faster than our local water supply can keep up with, which is another major concern in our area. Building a dual-purpose flood mitigation / water retention structure upstream of Comfort would benefit our community in multiple ways. I urge you to investigate every possible means to implement such a structure.

Thank you again for your attention to these important steps toward a safer future.

Sincerely,

Amy Sinclair

Region 11 Guadalupe RFPG Chair Updates

Agenda Item 4

Texas Water Development Board Updates

Agenda Item 5

Agenda Item 6

Guadalupe Region 11 RFPG Sponsor – GBRA
Updates

Agenda Item 6

Public Service Announcement Distribution: August 4th Public Input Meeting

Texas Tribune

My Canyon Lake

Cuero Record

Gonzales Inquirer

Hays Free Press

Community Impact

Corpus Christi Caller Times

Lockhart Post-Register

New Braunfels Herald Zeitung

Port Lavaca Wave

Hill County Weekly

Refugio County Press

San Marcos Corridor News

San Marcos Record

Seguin Gazette

KXAN TV (Austin Area)

KTBC TV (Austin Area)

Crossroads Today (Austin Area)

Time Warner Cable News

Victoria Television

Victoria Advocate

Texas Public Radio

KWED 1580

KGNB AM Central Texas

<https://www.sanmarcosrecord.com/news/hays-county-set-participate-regional-flood-planning-group-meeting>

<https://mycanyonlake.com/public-meeting-to-discuss-flood-concerns-on-guadalupe-river-set-for-aug-4/>

Agenda Item 7

Discussion and potential action regarding administrative expenses to be submitted to the Texas Water Development Board for reimbursement

Agenda Item 7

Administrative Costs from Nov. 1, 2020 – May 31, 2021

Hearst Media Solutions (Publication of RFQ)	940.42
GoDaddy.com, LLC (website account)	227.82
GBRA Salaries & Fringe	799.23
TOTAL	1,967.47

Approved Budget	Project Cost This Report	Cumulative Project Cost	Balance
\$37,866	\$1,967.47	\$1,967.47	\$35,899

*No expenses occurred by Technical Consultant during this time period

Administrative Costs from June 1, 2021 – Aug. 31, 2021

GPS Printing Solutions	246.75
GBRA Salaries & Fringe	3032.17
TOTAL	3,278.92

Approved Budget	Project Cost This Report	Cumulative Project Cost	Balance
\$37,866	\$3,278.92	\$5,246.39	\$32,620

Agenda Item 8

Update from Region 10 (Lower Colorado-Lavaca) and
Region 12 (San Antonio) Liaisons

Agenda Item 9

Discussion and potential action regarding the solicitation to fill the vacant voting position in the Water Utilities interest category.

Agenda Item 10

Technical consultants public outreach updates.

An aerial photograph of a vast wetland area, likely a marsh or delta. The landscape is characterized by a complex network of narrow water channels and larger, irregularly shaped water bodies. The vegetation is a dense, vibrant green, interspersed with the water. The sky is a pale, overcast blue, and the overall scene is captured from a high angle, providing a comprehensive view of the terrain's hydrology and ecology.

Region 11 Guadalupe

**Regional Flood Planning Group Meeting
September 8, 2021**

Item 10

August 4, 2021 – Preplanning Public Meeting

- 2nd Guadalupe RFPG Pre-Planning Public Meeting.
- Goal to encourage public involvement and obtain input on development of Guadalupe Regional Flood Plan.
- 11 individuals provided verbal comments with one speaker providing copies of emails and letters about flood planning and potential solutions.
- 26 attendees noted they received meeting announcement via email.

Total Number of Attendees/	61
RFPG Members Present	16
Elected Officials Present	7
Members of the Public Present	32
GBRA Staff Members Present	1
Consultant Team Members Present	8

August 4 to 18, 2021 – Virtual Public Meeting

- Expanded public participation opportunities in flood planning process.
- Average time spent in VPM room - 6 min and 43 seconds.
- 19 people signed in.
- Five people submitted comments via electronic comment form.
- Nine comments received via Interactive Comment Map.
- Combined with in-person public meeting - 126 attendees with 16 individuals providing comments in-person or through VPM.

Stream name	Region_11_GBRA	
Device category	Active users	Sessions
Totals	87 100.0% of total	133 100.0% of total
1 desktop	69	109
2 mobile	16	19
3 tablet	2	5

Public Comments Received Through comments@guadaluperfpg.org

July 14th – August 4th

Comment Topics	Number	Notes
August 4 th and other RFPG meetings	6	Virtual access to participate in August 4 th meeting, RFPG meetings in other parts of the basin, and other public hearing dates, etc.
Stakeholder list	1	Request to be removed from stakeholder list.
Planning recommendations	1	Protect native and natural habitat within first 200 feet from river and encourage developers or landowners to protect banks.

Public Comments Received Through comments@guadaluperfpg.org

August 5th - August 23rd

Comment Topics	Number	Notes
Stakeholder list	2	Requested changes or additions to stakeholder contact list.
Planning concerns	1	Concerns regarding Texas Department of Transportation land clearing practices.
Planning recommendations	1	Ten recommendations for green infrastructure as opposed to gray infrastructure to protect streams from receiving too much volume, and stormwater with pollutant loading.

Memorandum

To: Lauren Willis –Director of Regulatory & Customer Affairs, Guadalupe-Blanco River Authority
Jay Scanlon, PE, CFM, ENV SP – Project Manager, Freese & Nichols, Inc.
Adam Conner – Assistant Project Manager, Freese & Nichols, Inc.

From: Velma R. Danielson, Project Manager/Public Involvement Lead, Blanton & Associates, Inc.
Alicia Reinmund-Martinez, Deputy Project Manager, Blanton & Associates, Inc.

Date: September 8, 2021

Re: Region 11 Guadalupe Regional Flood Planning Group Public Involvement Update

The following information is an update to the Guadalupe RFPG on various public involvement activities related to development of the 2023 Guadalupe Regional Flood Plan.

August 4, 2021 Pre-Planning Public Meeting

The Region 11 Guadalupe Regional Flood Planning Group (RFPG) held their second pre-planning public meeting on Wednesday, August 4, 2021 as an item on their regular monthly RFPG meeting agenda to solicit public input regarding suggestions and recommendations on the development of the Guadalupe Regional Flood Plan. There were 61 attendees at this in-person meeting (16 RFPG members, seven elected officials, 32 members of the public, one Guadalupe-Blanco River Authority (GBRA) staff member and eight members of the consultant team). Eleven individuals spoke and provided comments, with one speaker submitting copies of emails and letters concerning flood planning and potential solutions. **Attachment A** is the August 17th summary report. Of the 39 attendees that signed in, 26, or 67%, of them said they heard about the meeting via email announcement.

August 4, 2021 – August 18, 2021 Virtual Public Meeting

A total of 87 unique users navigated the virtual public meeting (VPM) site added to the August 4th in-person meeting to expand public participation in the planning process. The total number of 133 sessions includes people that entered the room multiple times. About 80% of the users and sessions accessed the site through desktop computers, about 15% through mobile phones, and about 4% through tablet devices. The average time a user spent in a room was 6 minutes and 43 seconds. Nineteen people signed in. Five people submitted comments via the electronic comment form. Nine comments were received via Interactive Comment Map inside the virtual meeting site. **Attachment B** is a summary report with the details of the VPM activity.

In summary, for the second Guadalupe RFPG Pre-Planning Public meeting, there were 126 attendees/visitors for both the August 4th in-person meeting and the August 4th – August 18th VPM. A total of 16 people provided comments (either at the in-person meeting or the through the VPM), and an additional nine submitted comments on the Interactive Comment Map.

Public Comments Receive Through comments@guadaluperfpg.org

Between July 14th – August 4th, eight comments were submitted through the project email address. Six of the comments related to either the August 4th meeting (e.g., virtual access to participate in the August 4th meeting, RFPG meetings in other parts of the basin, and other public hearing dates, etc.), one was a request to be removed from the stakeholder list as they were located outside of the basin, and one was a recommendation to protect the native and natural habitat within the first 200 feet from the river, and to encourage developers or landowners to protect the banks.

Between August 5th – August 23rd, five comments have been submitted through the project email address. Two of these emails requested changes or additions to our stakeholder contact list, one of them provided ten recommendations for green infrastructure as opposed to gray infrastructure to protect streams from receiving too much volume, and also stormwater with pollutant loading, and one expressed concerns regarding Texas Department of Transportation land clearing practices.

If you have any questions, please let us know.

Attachments

Attachment A – Summary Report – Guadalupe Regional Flood Planning Group Pre-Planning Public Meeting – August 4, 2021

Attachment B – Metrics: Guadalupe RFPG Pre-Planning Public Meeting Virtual Public Meeting August 4 to August 18, 2021

Memorandum

To: Lauren Willis –Director of Regulatory & Customer Affairs, Guadalupe-Blanco River Authority
Jay Scanlon, PE, CFM, ENV SP – Project Manager, Freese & Nichols, Inc.
Adam Conner – Assistant Project Manager, Freese & Nichols, Inc.

From: Velma R. Danielson, Project Manager/Public Involvement Lead, Blanton & Associates
Alicia Reinmund-Martinez, Deputy Project Manager

Date: August 17, 2021

Re: **Summary Report – Guadalupe Regional Flood Planning Group Pre-Planning Public Meeting – August 4, 2021**

The Region 11 Guadalupe Regional Flood Planning Group (RFPG) held their second pre-planning public meeting on Wednesday, August 4, 2021 as an item on their regular monthly RFPG meeting agenda. The purpose of this agenda item was to solicit public input regarding suggestions and recommendations on the development of the Guadalupe Regional Flood Plan. Below is a summary of the meeting discussion related to this agenda item.

Meeting Attendance

There were 61 attendees, (16 RFPG members, seven elected officials, 32 members of the public, one Guadalupe-Blanco River Authority (GBRA) staff member and eight members of the consultant team assisting the Guadalupe RFPG with developing the 2023 Guadalupe Regional Flood Plan), at the August 4, 2021 Guadalupe RFPG Meeting. Sign-in sheets are included in **Appendix A**.

Pre-Planning Public Meeting Format

While the Guadalupe RFPG regular monthly meeting began at 4:02 p.m., the pre-planning public meeting agenda item began at approximately 5:20 p.m. Chairman Doug Miller reviewed the guidelines for those wanting to provide public comments. Chairman Miller also stated that RFPG members would not be addressing comments during the meeting as this was their opportunity to hear from the public. He then opened the meeting for public input. Eleven individuals spoke and provided comments, with one speaker submitting copies of emails and letters concerning flood planning and potential solutions. A matrix of the stakeholder and public comments received is found in **Appendix B**, and the emails and letters submitted are found in **Appendix C**. The meeting adjourned at 6:02 p.m.

If you have any questions, please let us know.

Attachment A
Sign-in Sheets

Guadalupe RFPG Pre-Planning Public Meeting
Virtual Public Meeting
Sign-in

Name	Email	Elected Official	Representing	Date
Raymond Slade	raymond643@aol.com			8/4/2021
Elaine Talarski	bookdoll99@gmail.com			8/4/2021
Brian Baird	bbairdx@gmail.com			8/4/2021
matt nelson	matt.nelson@twdb.texas.gov			8/4/2021
James Doyle	maps_erom@hotmail.com			8/4/2021
Ed Story	estory@pharos.energy			8/4/2021
Helena Mosser, USACE	Helena.P.Mosser@usace.army.mil			8/4/2021
Kristina Yarbrough	krisyarb@gmail.com			8/4/2021
JOY JUNGERS	jjungers@austin.rr.com			8/4/2021
Shirley Solis	ssolis@hctc.net			8/14/2021
James P Fancher	jpfancher@earthlink.net			8/16/2021
Elizabeth Arceneaux	lisa@eaenvironmental.net			8/16/2021
Thomas Manes	tmanes@austin.rr.com			8/16/2021
Jeff Prato	jprato@cityofkyle.com			8/17/2021
Michael Sharp	msharp@seguintexas.gov			8/17/2021
Bruce L Jennings	bjennings7@austin.rr.com			8/18/2021
Tara L Thomason	thomason.tara@gmail.com			8/18/2021
James P Fancher	jpfancher@earthlink.net			8/18/2021
Selina Lee Brandon	selina.brandon@freese.com			8/19/2021

Attachment B

Metrics: Guadalupe RFPG Pre-Planning Public Meeting Virtual Public Meeting
August 4 to August 18, 2021

Guadalupe RFPG Pre-Planning Public Meeting Virtual Public Meeting August 4 to August 18, 2021

I. Metrics:

- a. A total of 87 unique users navigated the site. The total number of sessions includes people that entered the room multiple times.

Stream name	Region_11_GBRA		Totals	
Device category	Active users	Sessions	↓ Active users	Sessions
Totals	87 100.0% of total	133 100.0% of total	87 100.0% of total	133 100.0% of total
1 desktop	69	109	69	109
2 mobile	16	19	16	19
3 tablet	2	5	2	5

- b. The average time a user spent in a room was 6 minutes and 43 seconds.

II. Sign-in and Comments

- a. *Sign-in*: 19 people signed in. **See Attachment A.**
- b. *Online Comments*: Five people sent comments via the electronic comment form. **See Attachment B.**
- c. *Interactive Map Comments*: Nine comments were received via Interactive Comment Map inside the virtual meeting site. **See Attachment C.**

Attachment B
Online Comments Received

Gudalupe RFPG Pre-Planning Public Meeting
Virtual Public Meeting
Online Comments Received

Date	Name	Email	Address	Comment
8/4/2021	Raymond Slade, hydrologist	raymond643@aol.com		As a hydrologist my studies have included the Guadalupe River. I published a report about flood peaks on the river. The study documents that annual peaks have increased 38 % for the river at Spring Branch. Because of this the 100-year flood plain as published is too low. This is because the flood plain is based on historic data but does not represent increased floods. I was in contact with NOAA about Atlas 14 which represents the current floodplain. They agree with me about this problem but do not have the authority to include increased floods in the creation of the current Guadalupe River floodplains. Any questions about this can be sent to me.
8/16/2021	Tatjana Walker	tatjana@wordwright.com	264 W Mariposa Dr	Here are the priorities I have for flood control: 1. Purchase of flood-prone land for parks and open space 2. Place more stringent building rules and regulations within the flood way and floodplain 3. Give more power to the counties to regulate things like break-away structures and activities in the floodplain and flood way 4. Increase protection of karst recharge features in the Guadalupe River basin 5. Add more green infrastructure and low impact development for urban stormwater management 6. Require 2D flood modeling with the NOAA Atlas 14 updated rainfall runoff predictions for the whole basin 7. Include future development and land cover change scenarios that come with population growth in the modeling
8/16/2021	Holly Veselka	hollyveselka@yahoo.com	4 Bob White Court San Marc	Please keep the rivers natural. Here are some natural options for flood mitigation: Purchase of flood-prone land for parks and open space. Place more stringent building rules and regulations within the flood way and floodplain. Give more power to the counties to regulate things like break-away structures and activities in the floodplain and flood way. Increase protection of karst recharge features in the Guadalupe River basin. Add more green infrastructure and low impact development for urban stormwater management. Require 2D flood modeling with the NOAA Atlas 14 updated rainfall runoff predictions for the whole basin Include future development and land cover change scenarios that come with population growth in the modeling.
8/17/2021	Steven Fonville	martwsc@austin.rr.com	P. O Box 257	I strongly support the recommendations for floodplain mgt. by the San Marcos River Foundation. I am currently the mgr. of the Martindale Water Supply Corp., and a long-time resident of the Guadalupe River basin. I am dismayed at the level of development currently allowed in floodway designated areas (FIRM panels 4/7/17 prelim.) on the banks of the San Marcos River in Guadalupe Co. Apparently wealthy landowners get an engineer to certify no BFE increase due to the structures and the county without further analysis or modeling just rubberstamp approval of these massive residential structures. This is not good faith management.
8/17/2021	Shannon Curtice	curtice03@gmail.com	2805 Hunter Rd, 8 B, San Marcos, TX 78666	I believe that using nature based flood management systems will enable us to better prepare for and deal with flooding. We can't pave over or develop all our flood zones and watersheds like Houston did and expect a better outcome. Since the number of historic or unusual flooding seems to be increasing, we need to plan for short and long term flood mitigation. Nature based solutions and protections of watersheds and associated floodplains will give the flood waters a place to go, which will reduce the immediate and long term economic impact after a major flood. These are a few nature based ideas to help mitigate and manage flooding: 1. Purchase of flood-prone land for parks and open space 2. Place more stringent building rules and regulations within the flood way and floodplain 3. Give more power to the counties to regulate things like break-away structures and activities in the floodplain and flood way. I've participated in numerous river/watershed clean ups, and there's always a lot of debris from breakaway structures and activities. Following the Memorial Day flood in 2015, I removed multiple containers of insect/rodent poison, herbicides, motor oil, and antifreeze, which all came out of sheds and the like, out of the San Marcos River. It is dangerous and unacceptable for these chemicals to end up in our rivers. 4. Increase protection of karst recharge features in the Guadalupe River basin 5. Add more green infrastructure and low impact development for urban stormwater management. 6. Require 2D flood modeling with the NOAA Atlas 14 updated rainfall runoff predictions for the whole basin 7. Include future development and land cover change scenarios that come with population growth in the modeling. This area is seeing a lot of growth and we need to plan for immediate and long term land use and flood management. 8. Offer incentives for building with porous concrete/asphalt to help keep heavy from overwhelming storm drains and other flood management systems.
8/18/2021	Eric N Telford	eric.telford110@gmail.com	110 Cottonseed Run	My address is NOW in the flood way. After 30 years, several 500 and 100 year floods I can say emphatically... My property is NOT in a flood way! It would take a flood of biblical proportions to flood my pastures.

Attachment C
Interactive Comment Map Comments

Guadalupe RFPG Pre-Planning Public Meeting
Virtual Public Meeting
Interactive Comment Map

Comment_ID	CreationDate	Name	Email	Phone_Number	Organization	Flood_Concern	Flood_Frequency	Flood_Concern_Date	Flood_Concern_Description	Years_Lived_or_Worked_in_Area	Contact_YN	Comment_Type
1	2021-08-11 23:23	Laurie Moyer	lmoyer@sanmarcostx.gov	5127539579	City of San Marcos			2021-08-11 22:52	Multiple smaller flood control/recharge dams on tribs of Blanco to reduce peak to Wimberley/San Marcos		Yes	Flood Project
2	2021-08-11 23:22	Laurie Moyer	lmoyer@sanmarcostx.gov	5123938132	City of San Marcos		Few Occasions	2021-08-11 22:52	Look at multiple smaller flood control/ recharge facilities on Blanco tributaries to reduce peak to Wimberley/San Marcos		Yes	Flood Project
3	2021-08-17 3:32	Thomas Manes	tmanes@austin.rr.com	512-847-9501		Channel (i.e. drainage channel)		2015-05-30 15:30	also in Oct. 2015	27	Yes	Flood Concern
4	2021-08-11 23:32	Laurie Moyer	lmoyer@sanmarcostx.gov	5127539579	City of San Marcos	Land (i.e. yard, parking lot, field, etc.)	Few Occasions	2021-08-11 22:52	Blanco River overflow into industrial park & City Fire station approx 3' in 2015		Yes	Flood Project
5	2021-08-11 23:01	Laurie Moyer	lmoyer@sanmarcostx.gov	5123938132	City of San Marcos	Channel (i.e. drainage channel)		2021-08-11 22:52	Bypass Creek Improvements to reduce Blanco overflow		Yes	Flood Project
6	2021-08-11 22:57	Laurie Moyer	lmoyer@sanmarcostx.gov	5123938132	City of San Marcos	Channel (i.e. drainage channel)	Frequently	2021-08-11 22:52	Purgatory Creek Channel Improvements	30+ Years	Yes	Flood Project
7	2021-08-11 22:56	Laurie Moyer	lmoyer@sanmarcostx.gov	5123938132	City of San Marcos		Few Occasions		Improvements to 5 high hazard flood control dams to address Atlas 14 Cottonwood Creek overflows to the north - analysis by the City to reduce with proposed for additional capacity and DS	30+ years	Yes	Flood Project
8	2021-08-11 23:34	Laurie Moyer	lmoyer@sanmarcostx.gov	5123938132	City of San Marcos	Road (i.e. street, highway, impacts travel)	Few Occasions	2021-08-11 22:52	improvements to the creek		Yes	Flood Concern
9	2021-08-16 16:17	Neil Rose, GISP	nrose@nbtexas.org	830-221-4337	City of New Braunfels	Other (i.e. unsure or don't know)	Unknown	2021-08-16 16:16	Attaching GIS data	2	Yes	Flood Concern

Agenda Item 11

Discussion and potential action regarding Region 11
RFPG Technical Consultants work and schedule



Region 11 Guadalupe

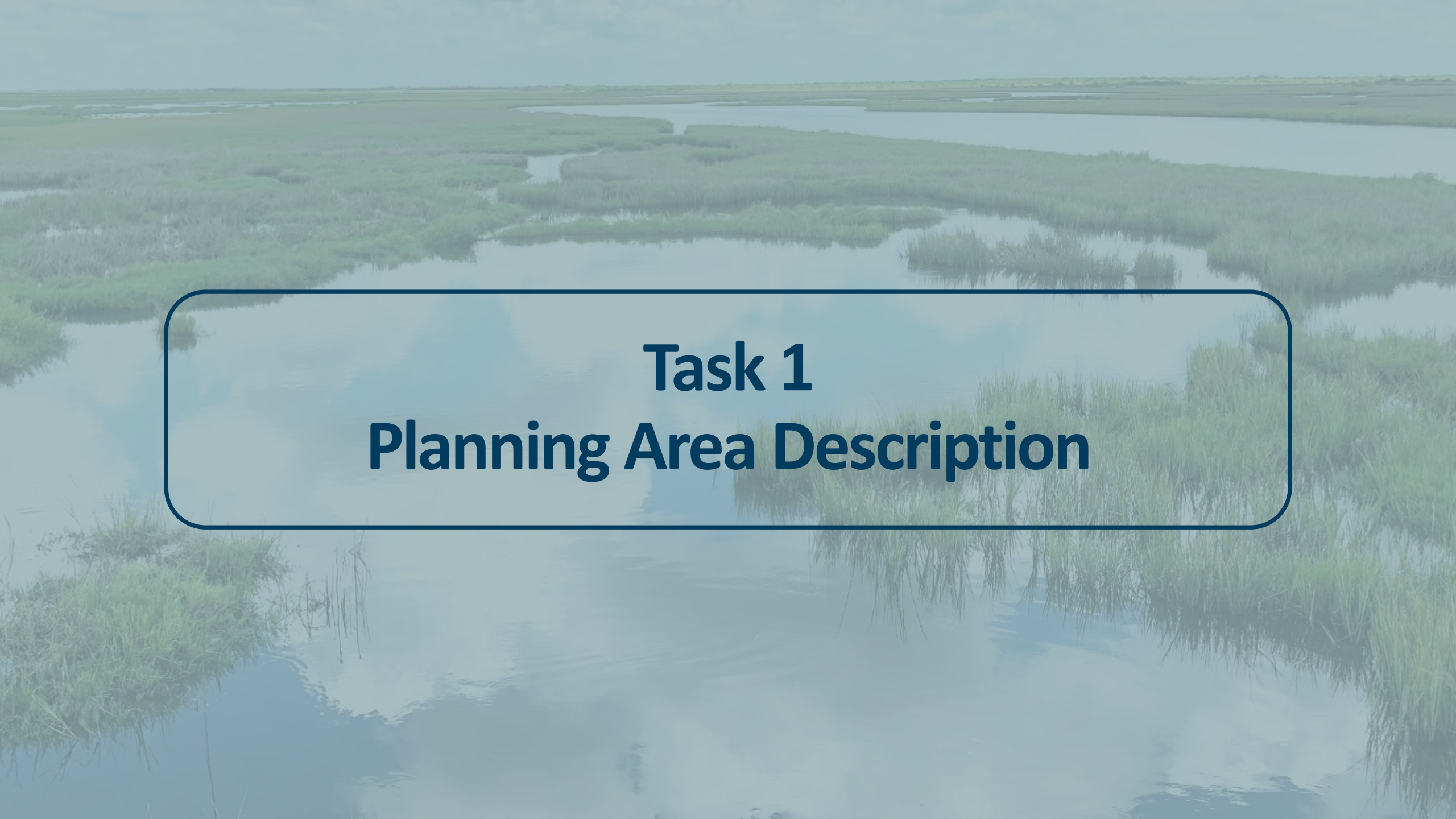
**Regional Flood Planning Group Meeting
September 8, 2021**

Item 11



Agenda

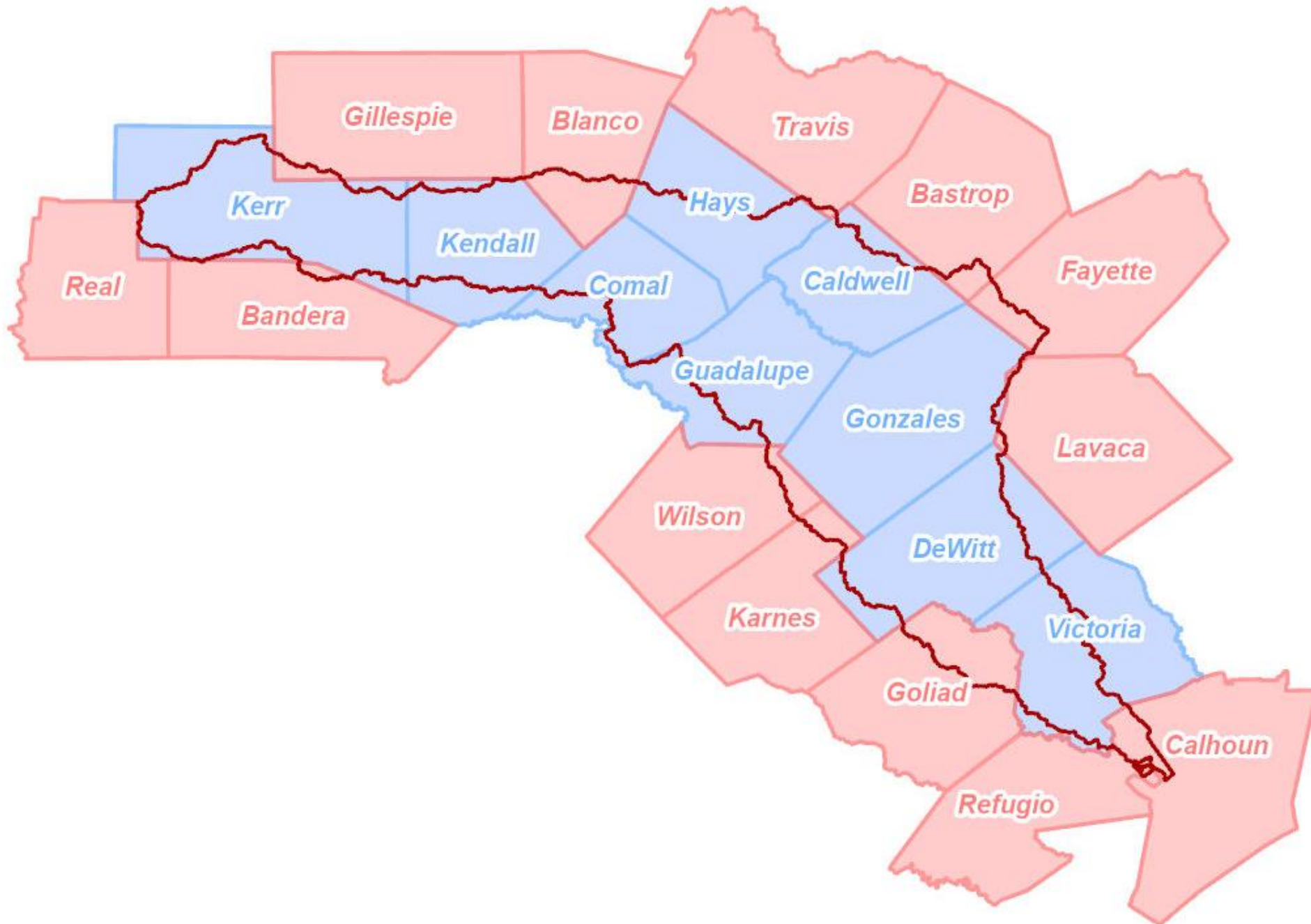
- Brief Updates
 - Task 1 – Planning Area
 - Task 2 – Flood Risk
- Task 3 - Practices and Goals
- Task 4 - Screening Process
- Look Ahead



Task 1

Planning Area Description

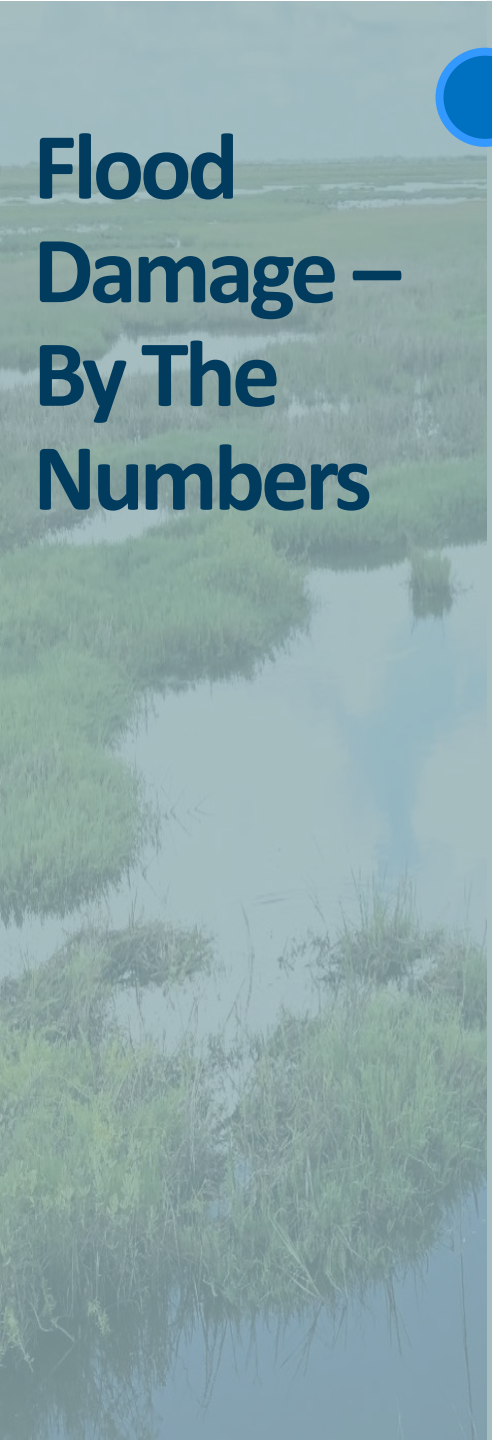
Basin Entities





Region Summary

- 22 counties*
- 6,030 square miles
- 752,586 residents
- 14,633 stream miles
- Approximately 34 cities and towns
- Major cities include New Braunfels, San Marcos, Seguin, Victoria, Schertz, Kyle, Kerrville



Flood Damage – By The Numbers

FEMA FLOOD CLAIMS (1975 – PRESENT)

6,248

Flood Claims

\$261.7 M

Flood Claims Paid

FLOOD-RELATED PRESIDENTIAL DISASTER DECLARATIONS (1953 – 2020)

38

Major Disaster Declarations

8

Emergency Declarations

21% of Disaster Declarations have
occurred within the region since 2000.

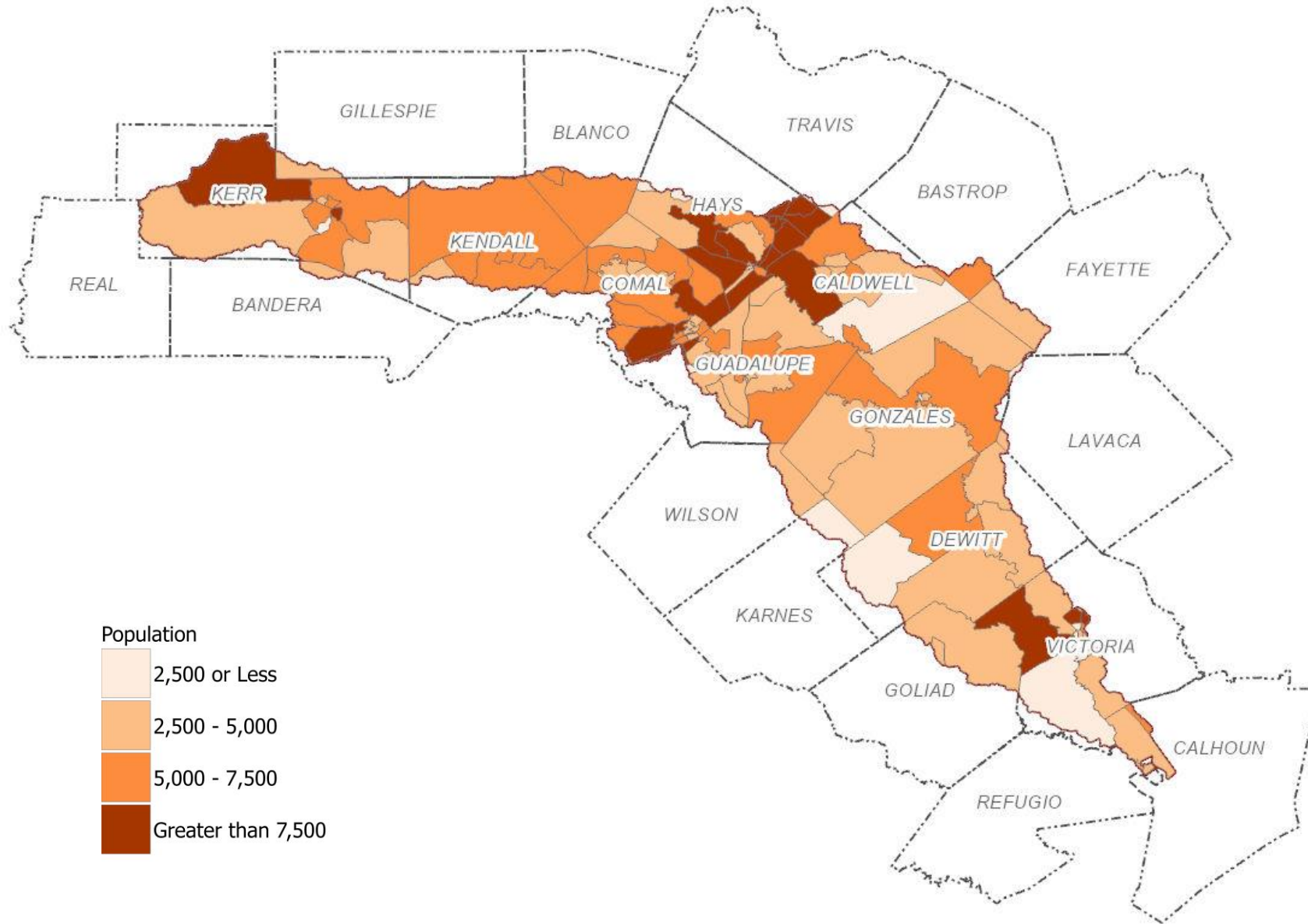
FLOOD EVENTS (1913 – PRESENT)

Over **42 major flood
events** have occurred in
the last 108 years with
significant losses to life
and property

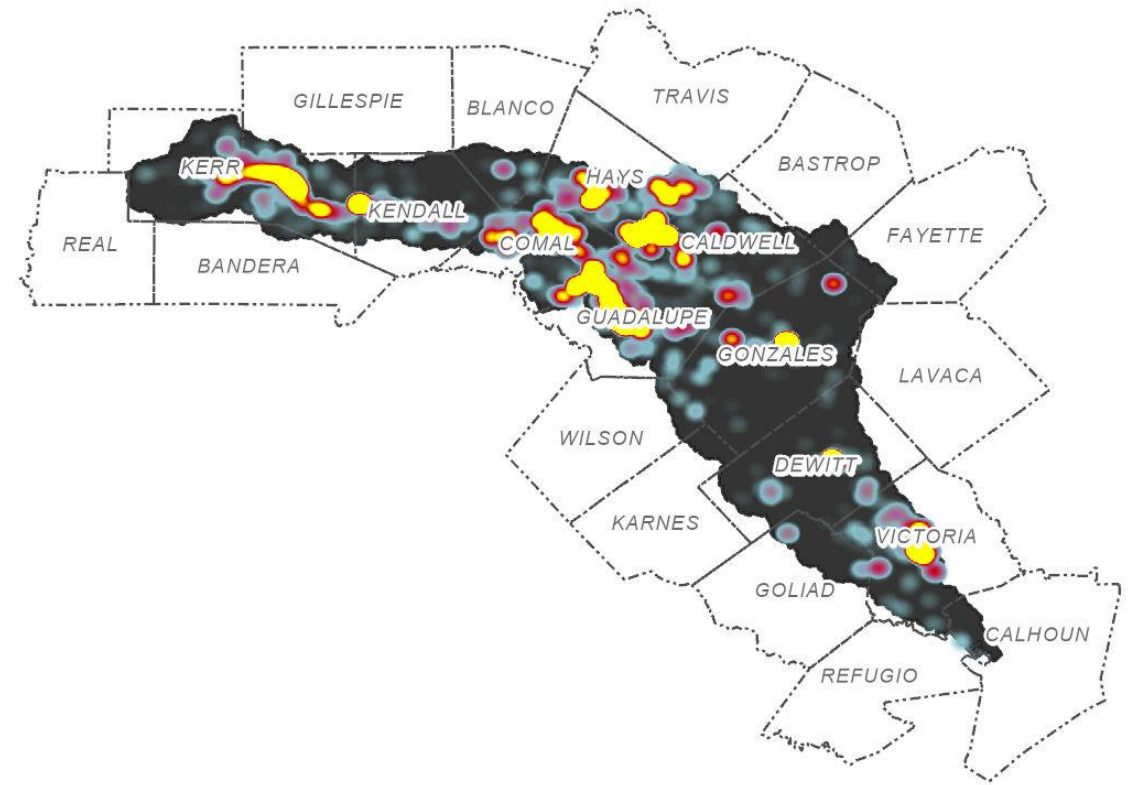
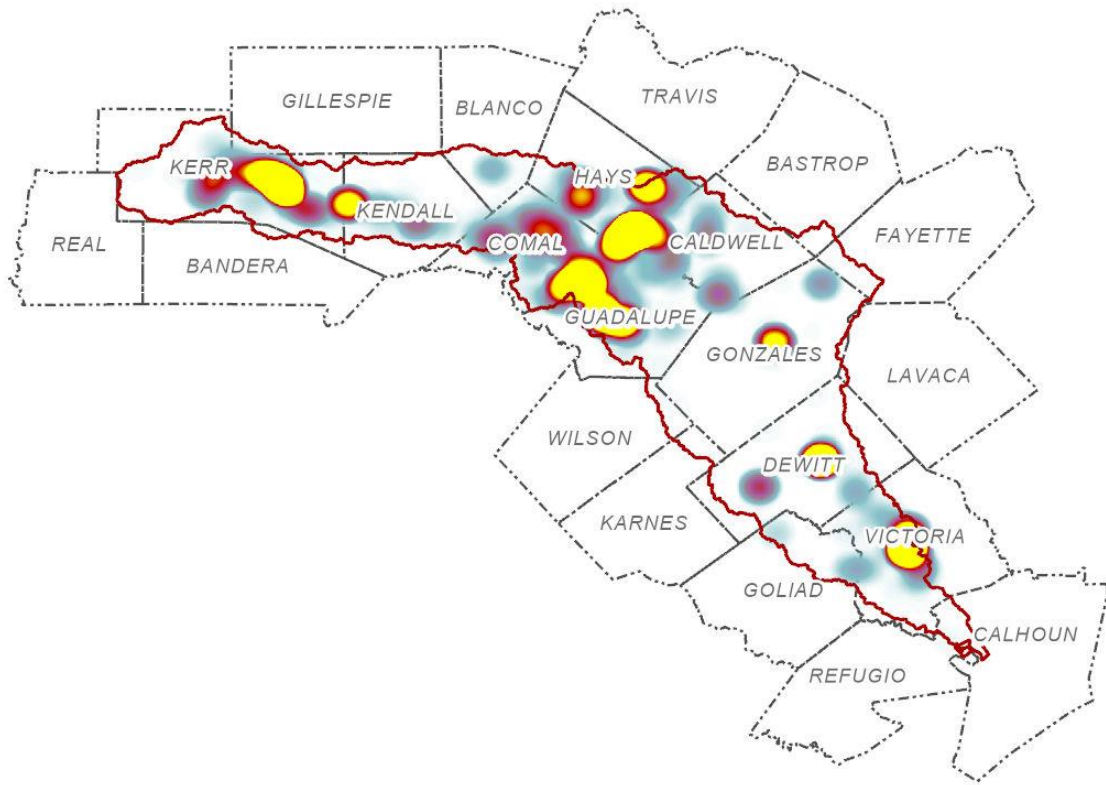
LOSS OF LIFE (1952 – PRESENT)

Approximately **86 flood-
related fatalities** have
occurred within the region
in the last 70 years

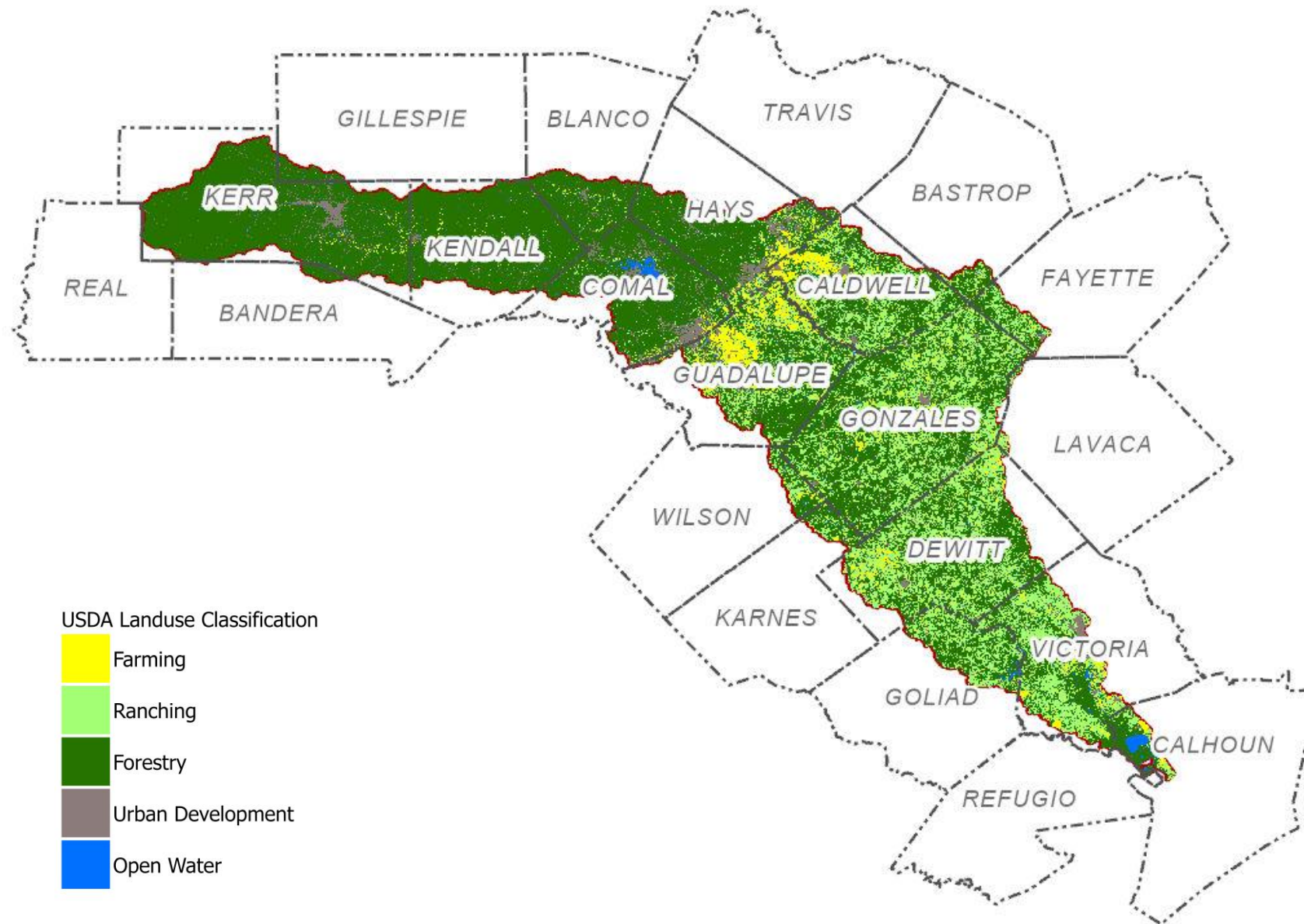
Population

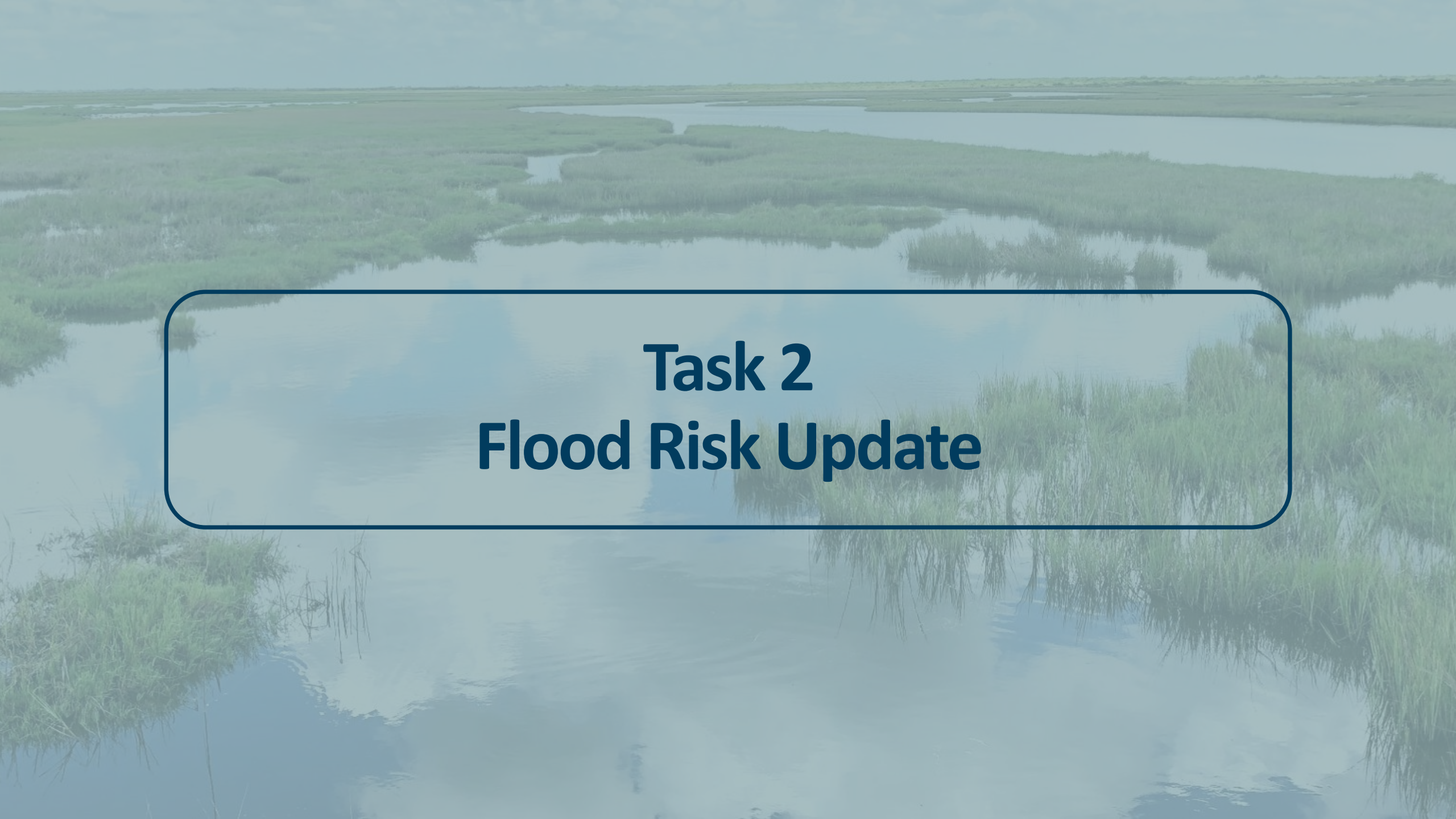


Region Summary



Land Use

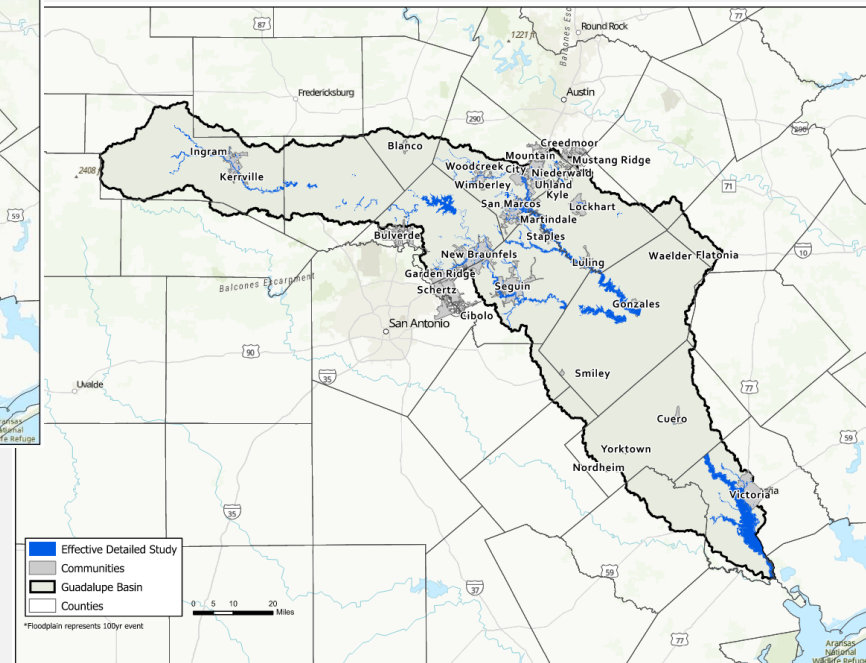
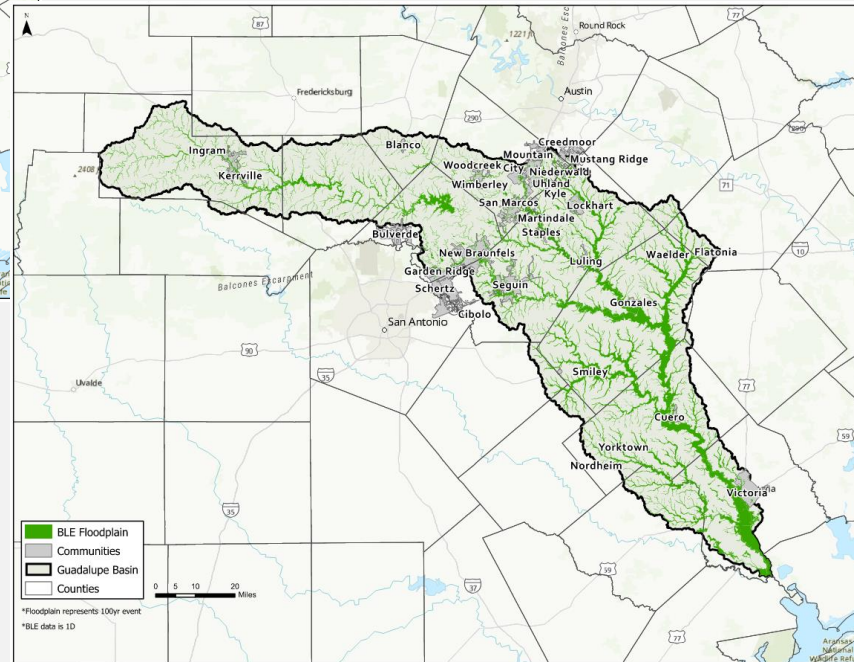
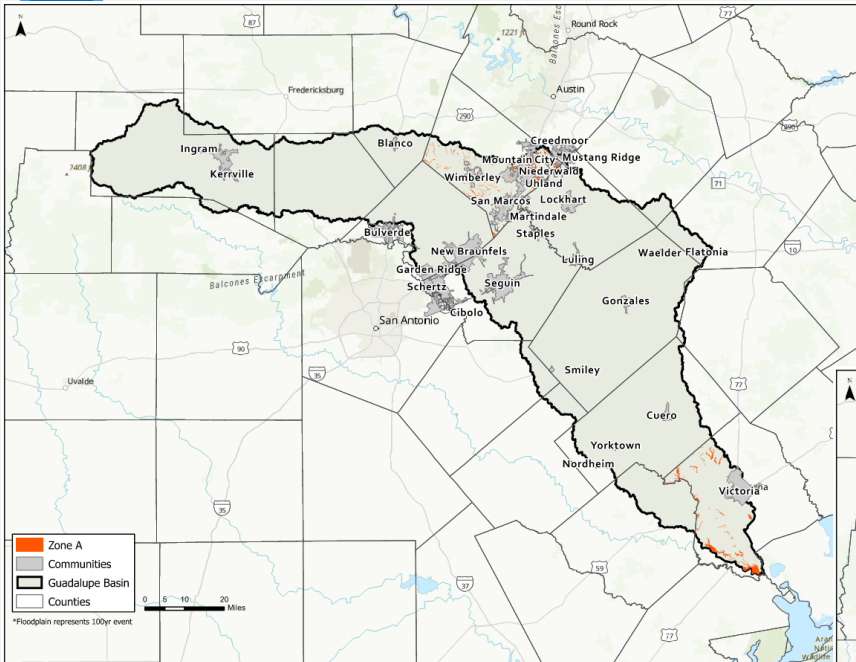




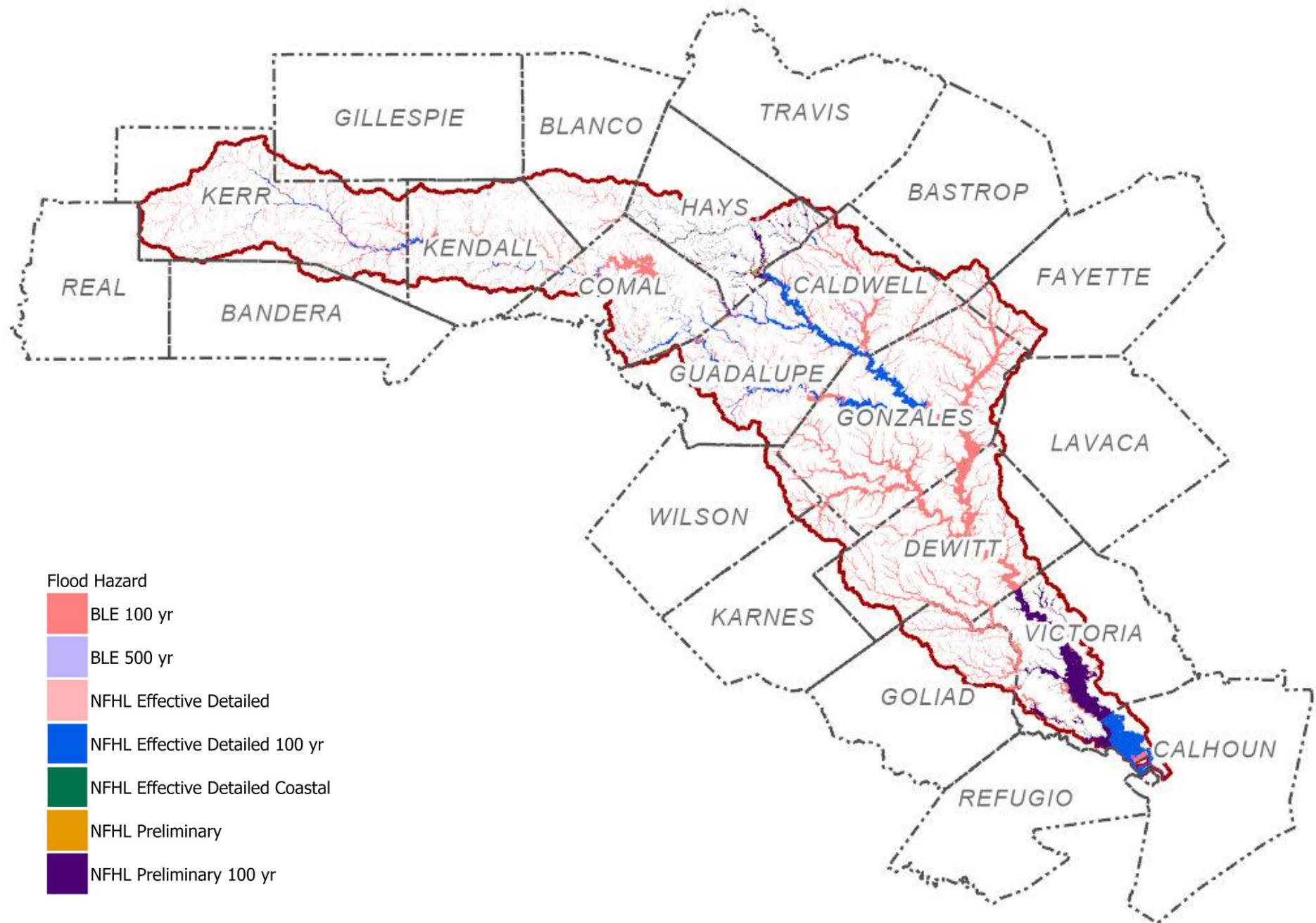
Task 2
Flood Risk Update

Existing Flood Hazard

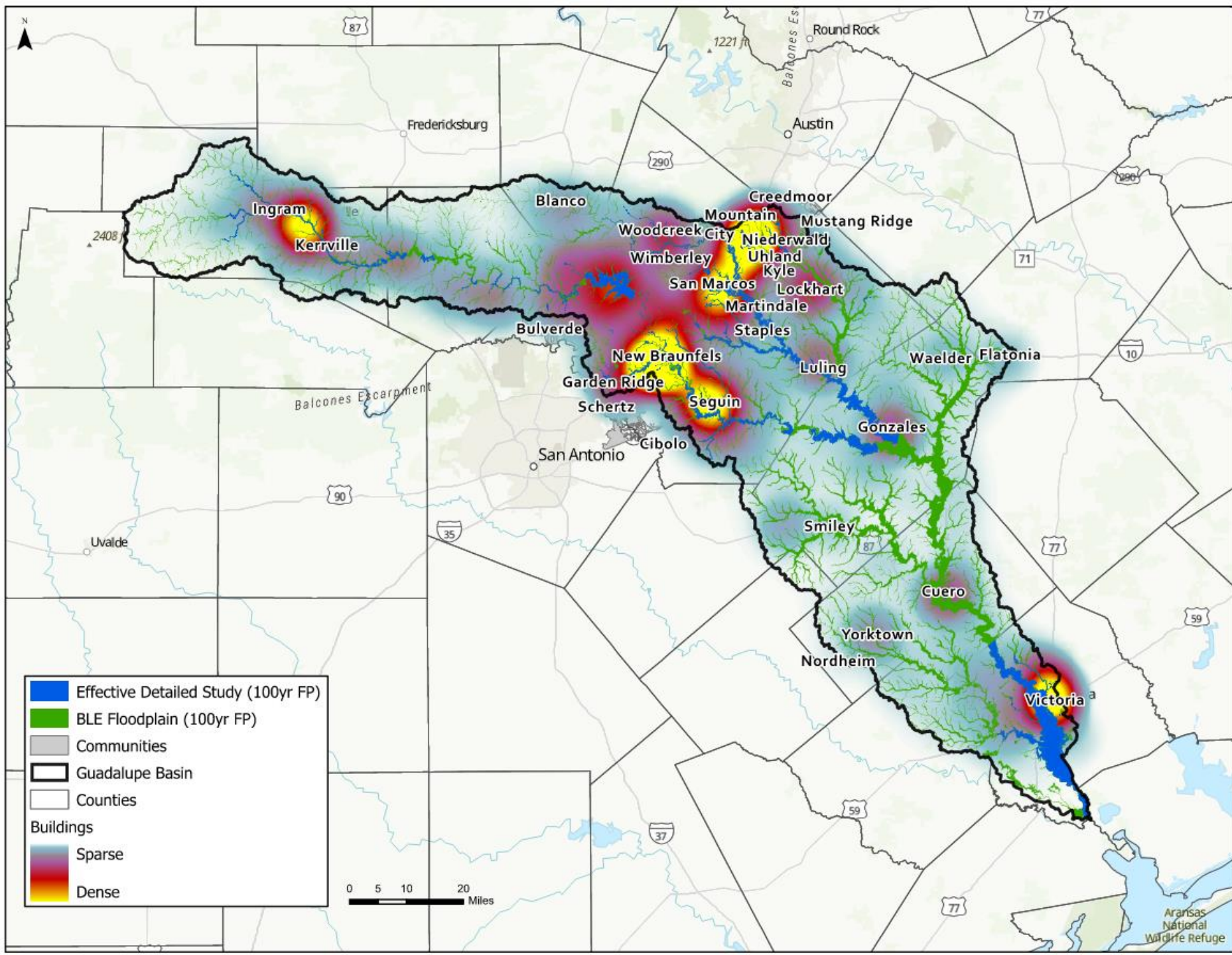
Study Type	Stream Miles	% of Total
Zone A	372	3
Base Level Engineering	7,598	53
Detailed	1,368	10



Existing Flood Hazard



Structures at Risk



Other Risks

1,216 miles of potential road inundation

Land Classification	Area in Region (sq mi)	Area in 100-year Flood Hazard Layer (sq mi)	Total Exposed Property Value* (2020 USD)
Cropland	8,998	633	\$822M
Ranchland	23,879	2,684	\$2.89B

Buildings in 100-Year Existing Flood Hazard Layer							
Flood Hazard Type	Residential	Vacant or Unknown	Commercial	Agricultural	Industrial	Public	Total
NFHL - Detailed Study Areas	3,942 (38%)	0	575 (41%)	76	321	185	5,099
Other - Approximate Study Areas	6,375 (62%)	3,961	823 (59%)	1,259	312	443	12,903
Total	10,317	3,691	1,398	1,335	633	628	18,002

Vulnerability Analysis

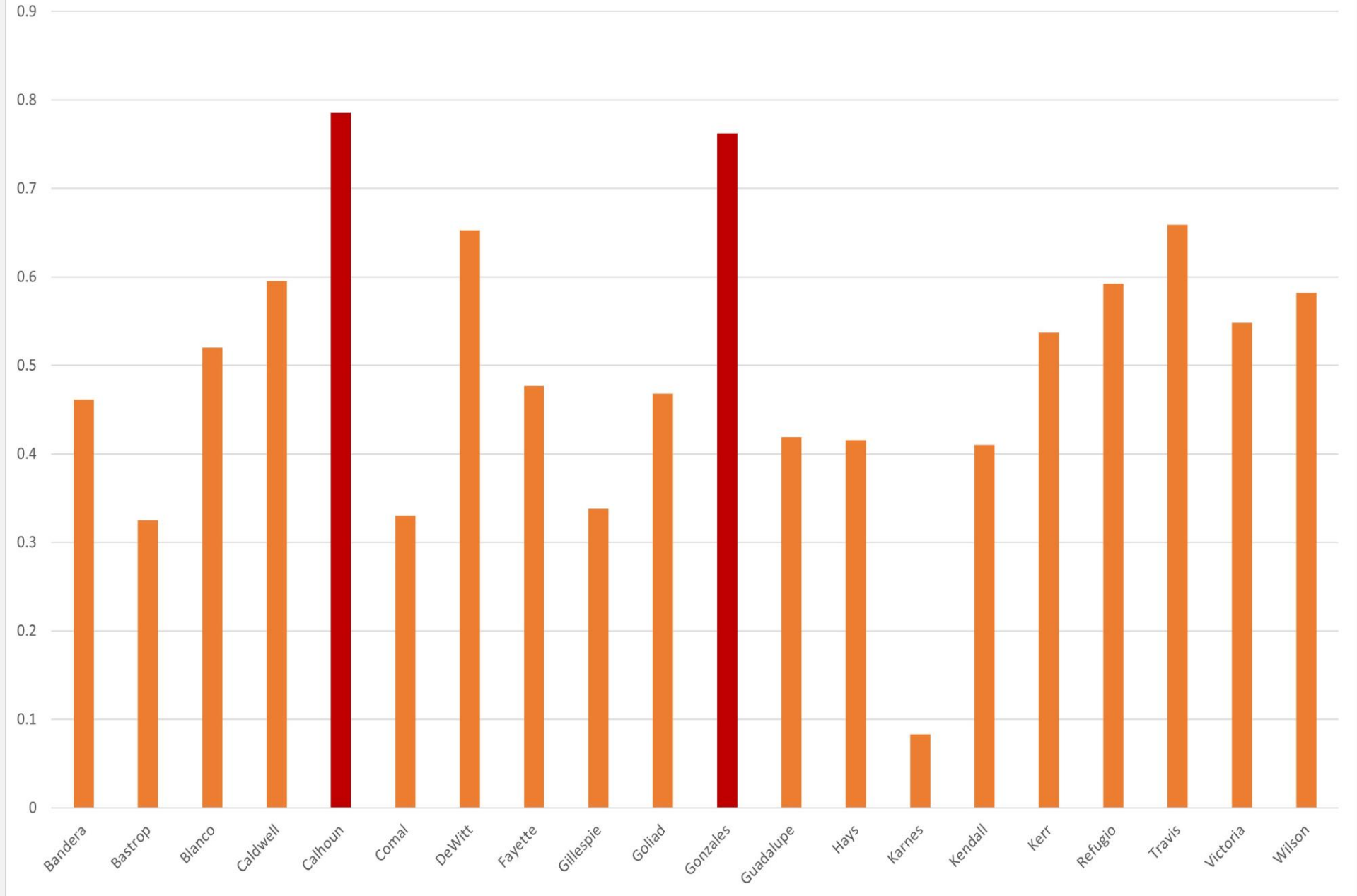
SVI =
Social Vulnerability Index

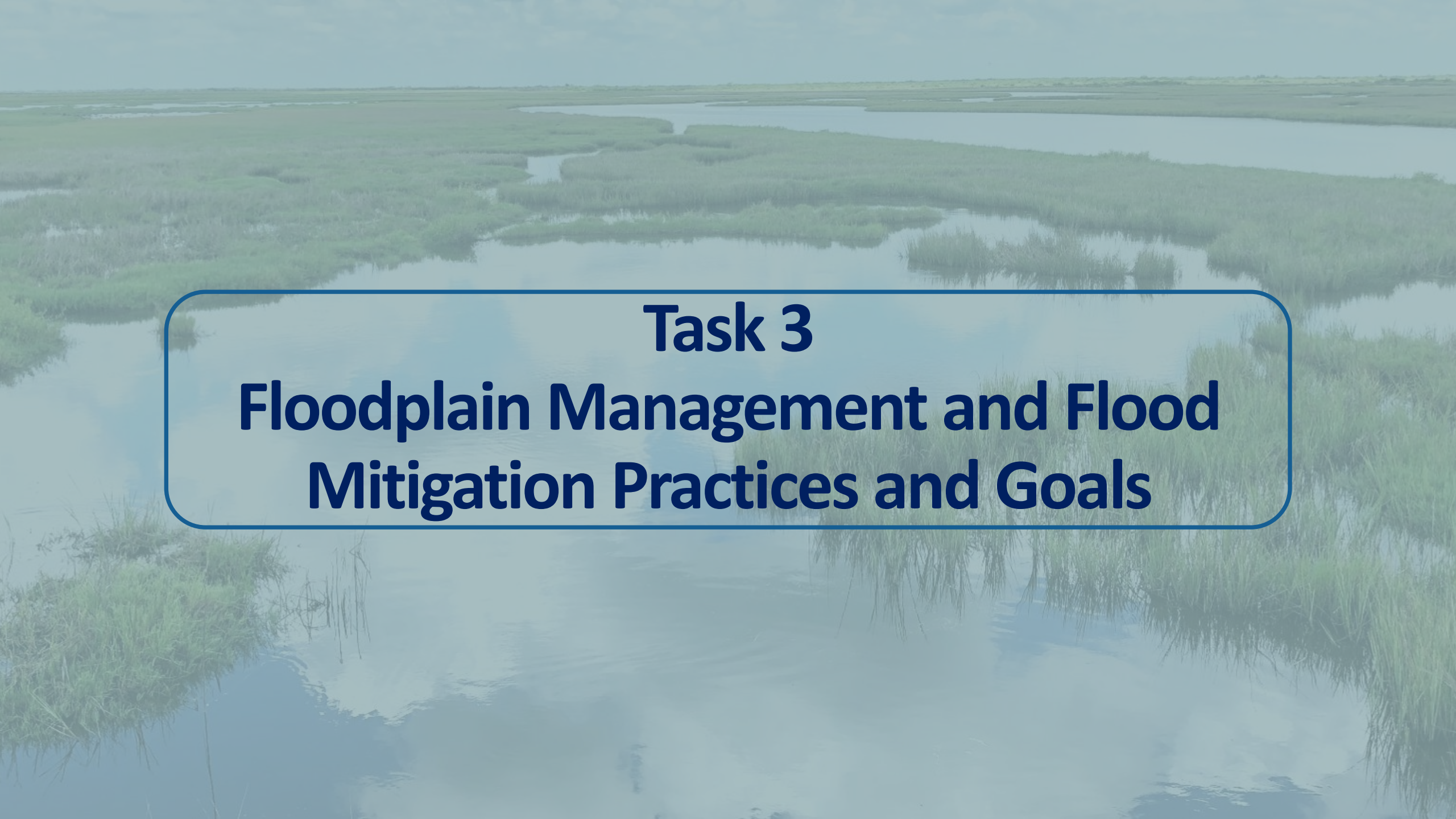
Used to identify communities that may need support before, during or after disasters

Higher SVI indicates greater need for support

2 counties in region where structures in flood hazard area have an average SVI > 0.75

Average SVI of Structures in 100-Yr Flood Hazard Area by County





Task 3
**Floodplain Management and Flood
Mitigation Practices and Goals**

Statewide Perspective

TFMA Survey 2018

Survey Responses			CRS Communities	Community Adopted Freeboard	
Total Communities	Cities	Counties		Existing Conditions 1' or more	Fully Developed Conditions
331	257	74	63	282	145

- 27% of 1,240 NFIP communities responded

For new development

- 48% responders require detention, mitigation, or setback from flood boundary
- 83% of responders require establishing flood elevation or floodway in Zone A
- 78% of responders require elevation certificates



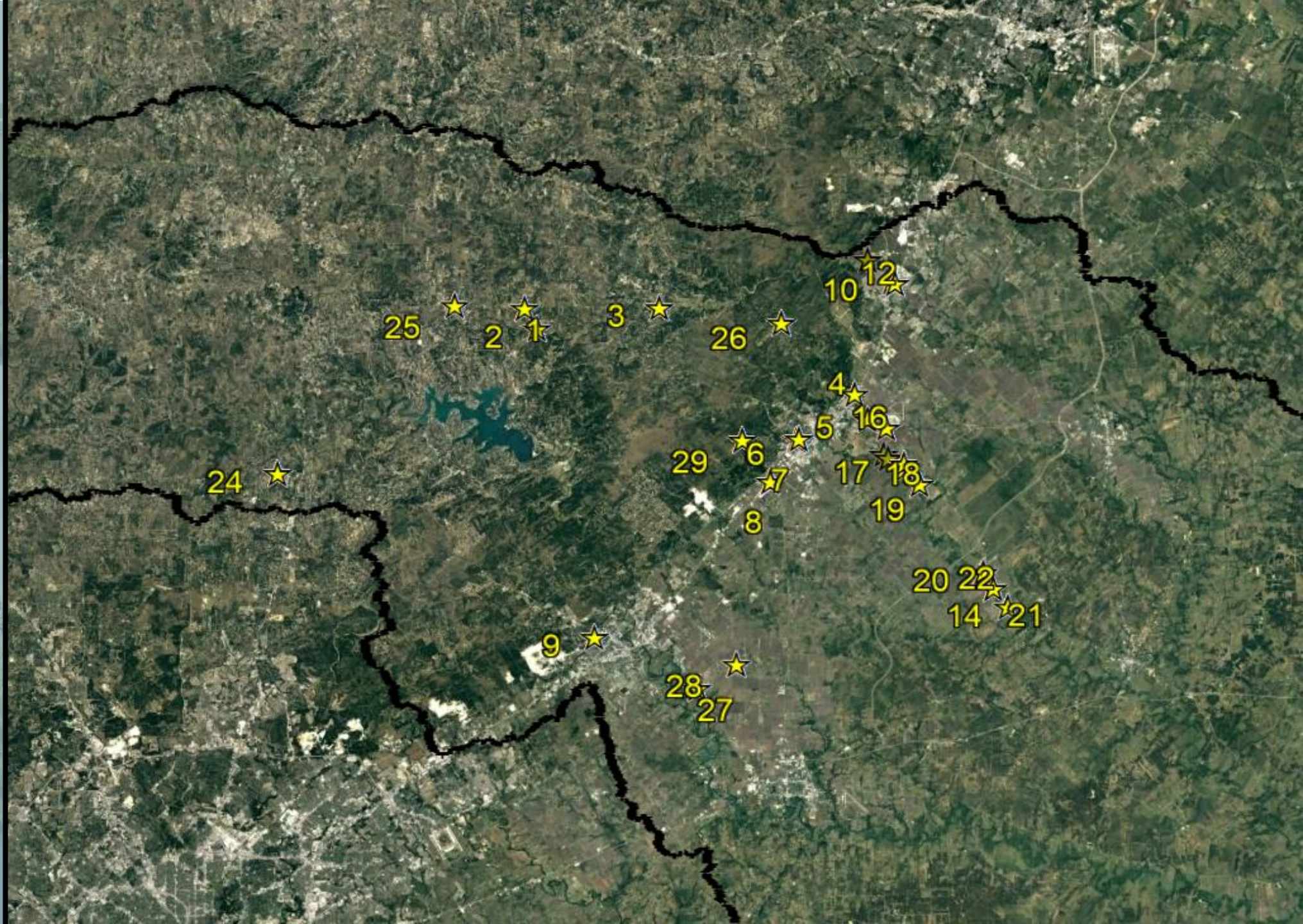
Public Engagement Opportunities


- **Interactive Comment Map (ICM)**
 - Listed concerns and project requests
- **Region 11 Survey Monkey**
 - Seeking detailed input (56 questions)
- **Public Meeting Real-Time Survey**
 - August 4 Mentimeter
- **RFPG Survey**
 - Goals/practices/timelines
- **Overall public input – RFPG input**

ICM Flood Concerns and Projects

10 projects

19 concerns





Region 11 Survey Monkey Summary

- Sent to hundreds - 12 responses
 - 18% public sector with floodplain role
 - 73% citizens
 - 9% elected officials
 - 75% from Comal, Guadalupe, Hays Counties
- Seeking input from floodplain managers
- Survey Questions - structure and natural system performance, community data, standards, enforcement, funding, mapping
- Several recommended flood warning, dam repairs
- **Team will follow-up with calls to communities**

Express with one word your top priority for the Regional Flood Planning effort

August 4, 2021

RFPG
Wimberley
Public
Meeting

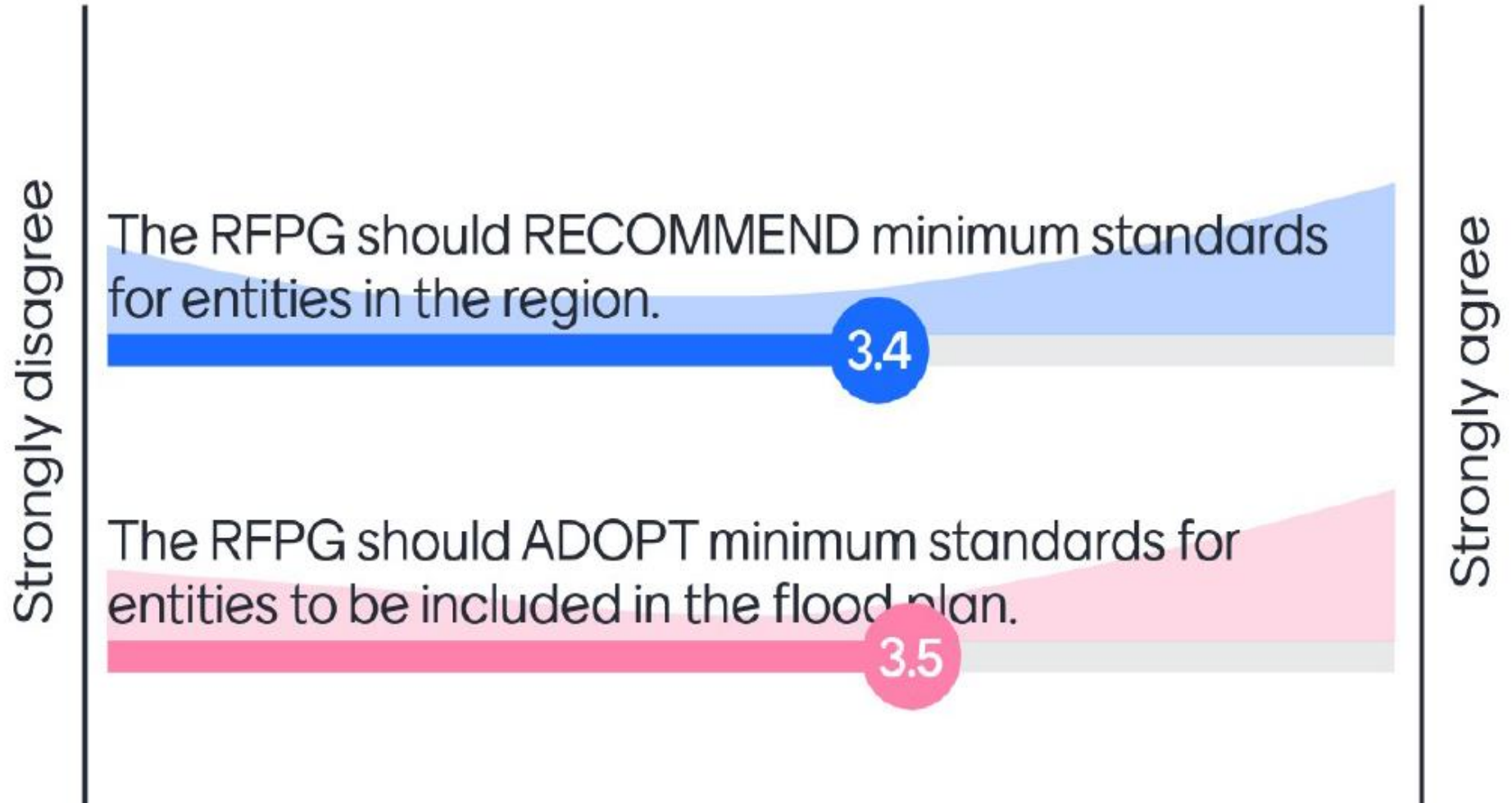
Live Survey



How important are the following outcomes for a successful Regional Flood Plan?



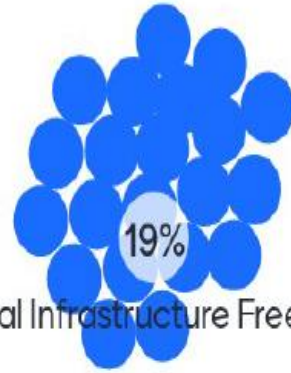
Indicate your initial preference with regard to regional floodplain management standards:



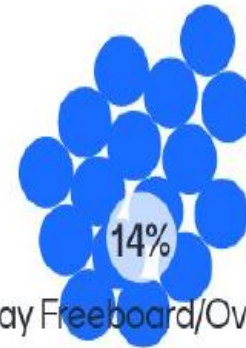
Potential Management Practices



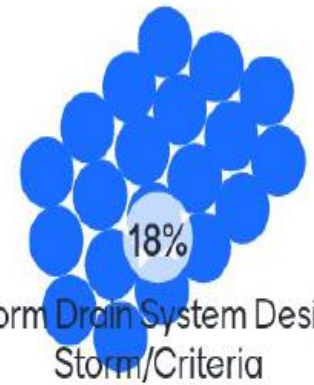
Residential and Commercial Freeboard



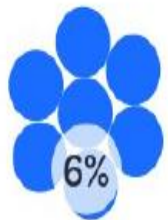
Critical Infrastructure Freeboard



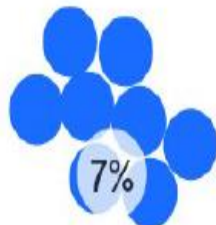
Roadway Freeboard/Overtopping



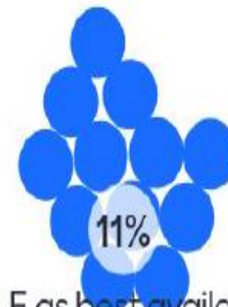
Storm Drain System Design
Storm/Criteria



NFIP Participation



CRS Participation

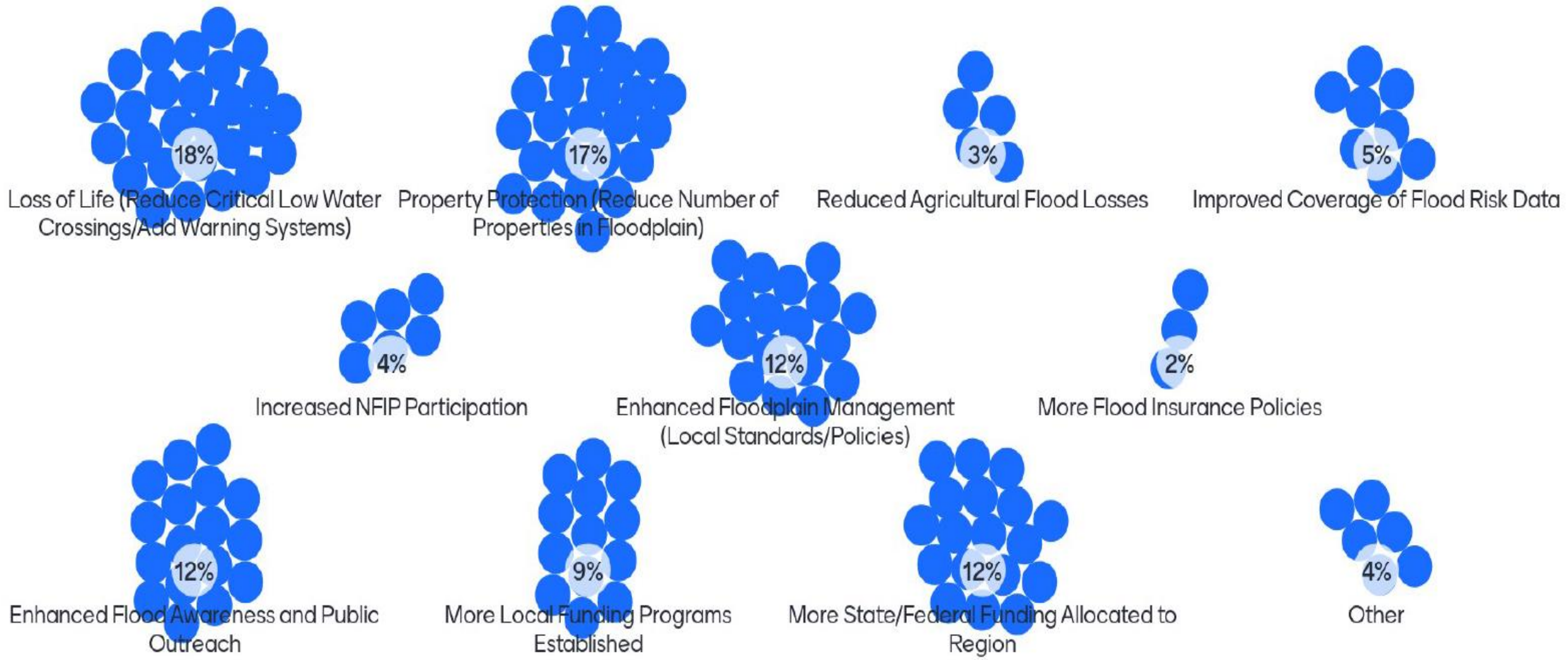


Adopt BLE as best available unless
detailed study available



Other

Potential Goal Categories (select all that apply)





RFPG Survey

- Sent to all committee members
- Received 8 responses
- RFPG should adopt minimum standards for local governments before FME, FMS, and FMP can be included in the Regional Flood Plan
 - 50% indicated yes but with concerns over what the standards could be and how forced on communities
- **DISCUSSION**



RFPG Survey

• Impediments to Effective Flood Mgmt

From highest to lowest score (5 – 1)

- Lack of funding (5)
- Lack of staff/resources (5)
- Lack of maps (4)
- Inconsistent policies/regulations (3)
- Outdated design standards (3)
- Limited access to flood insurance (2)

Consistent responses



RFPG Survey

- Flooding Concerns

From highest to lowest score (9 – 1)

- Potential loss of life (8)
- Critical facility flooding (7)
- Inadequate infrastructure (6)
- Unregulated development (5)

• Flooded roadways (5)

• Damages to private property (5)

Wide range – DISCUSSION



RFPG Survey

- **Flooding Planning Outcomes**

From highest to lowest score (5 – 1)

- **Regional project collaboration (5)**
- **Reducing risk to life and property (5)**
- **Securing funding (5)**
- **Policy and regulation improvements (4)**
- **Better flood risk data (4)**
- **Awareness natural solutions (4)**

Consistent responses



RFPG Survey

• Flooding Mitigation Practices

From highest to lowest score (5 – 1)

- Flood warning systems (5)
- Natural channel design (5)
- Detention basins (5)
- Flood diversion/aquifer recharge (4)
- Remove structures from the floodplain (4)
- Elevating structures, Floodproofing structures, Dams, Levees, Channel modification (deepen/widen) (3)

Consistent responses



RFPG Survey

- Flooding Prevention Practices

From highest to lowest score (5 – 1)

- Land conservation (5)
- Detention basins (5)
- Development limits – impervious cover (5)
- Creek/river buffer zones (100-yr flood) (4)
- Low impact development practices (4)
- Freeboard for bridges/buildings (4)

Consistent responses



RFPG Survey

- **Flooding Management Goals**

From highest to lowest score (5 – 1)

- **Install flood warning systems (roads) (5)**
- **Increased nature-based practices (5)**
- **Communities participate in CRS program (4)**
- **Communities adopt higher standards (4)**
- **Reduce vulnerable buildings in floodplain (4)**
- **Reduce low water crossings in floodplain (4)**

Consistent responses

• Flooding Management Goals

Timeline Goals (Median/Average)

Goals	Condition in 10 Years	Condition in 30 Years
Install flood warning systems at low water crossings	50% of all LWC	90% of all LWC
Nature based practices (LID, land conservation, natural channel design) to manage flooding	60% increase	90% increase
High growth communities participate in the CRS	50% of all high growth communities	75% of all high growth communities
Communities adopt higher standards	30% increase	60% increase
Reduce vulnerable buildings in the floodplain	50% reduction	70% reduction
Reduce low water crossings in the 100-year floodplain	50% reduction	70% reduction
Local governments establish drainage utility or fees to enhance floodplain protection	35% increase	60% increase

RFPG Survey



RFPG Survey

Public Survey

Comparison

- **Adopt minimum standards for community to be in RFP**
 - Fairly consistent (not strong opinion to require)
- **Regional Plan Outcomes**
 - Consistent – reducing risk to life/property, funding, policy and regulation improvements
- **Management Practices**
 - Public priorities – freeboard, storm system design criteria, roadway flooding, BLE mapping
 - RFPG priorities – flood warning systems, natural channel design, detention basins, remove structures from floodplain



RFPG Survey

Public Survey

Comparison

- **Floodplain Management Goals**

- **Public priorities:**

- Loss of life reduction
- Low water crossing upgrades/flood warning
- Property protection/reduce # in floodplain
- Enhanced standards/policies/education

- **RFPG priorities**

- Low water crossing/flood warning systems
- Reduce buildings in the floodplain
- Enhanced standards
- Increase CRS participation



Practices & Goals Next Steps

- **RFPG Members submit surveys by Sept 10**
- **Update goals/practices based on meeting input and new surveys**
- **Summarize practices/goals by Sept 17**
- **Post by Sept 22 for public input**
- **Share public input at October 5 RFPG meeting**
- **RFPG approve practices/goals at Oct 5 meeting**

An aerial photograph of a wetland landscape. The scene is dominated by a network of water channels and small ponds, interspersed with dense green vegetation, likely marsh grasses. The water reflects the sky, which is filled with soft, white clouds. The overall color palette is a mix of blues, greens, and greys, creating a serene and natural atmosphere.

Task 4 Screening



FMS - Flood Management Strategies

Plan to reduce flood risk or mitigate flood hazards to life or property; action group would like to identify, evaluate, and recommend that doesn't qualify as an FME or FMP



FME - Flood Management Evaluations

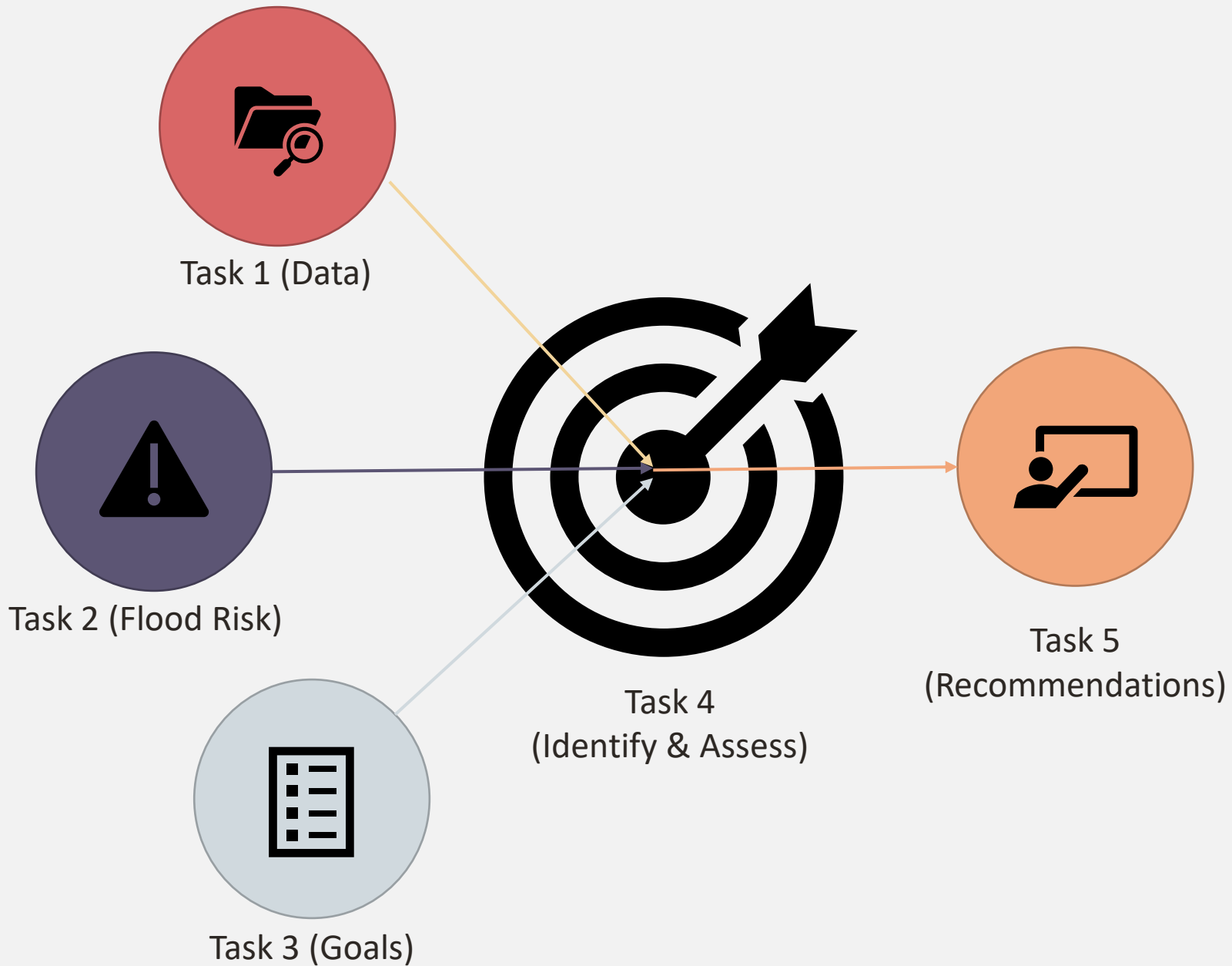
Study of a specific, flood-prone area needed to assess risk and/or determine whether there are potentially feasible FMSs or FMPs



FMP - Flood Mitigation Projects

Project (structural or non-structural) that has non-zero capital costs or other non-recurring cost and will reduce flood risk, mitigate flood hazards to life or property

Identify FME, FMS, & FMP



Anticipated Distribution



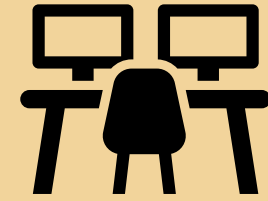
FMS



FMP



FME



Task 4B: Proposed Process

STEP 1

INITIAL SCREENING OF *STUDIES, PROJECTS & STRATEGIES* RECEIVED

Screen for minimum TWDB rules and guidance requirements

STEP 2

SCREENING OF *PROJECTS*

Screen per TWDB flowchart and guidance

STEP 3

SCREENING OF *STUDIES*

Screen for minimum TWDB guidance requirements

STEP 4

SCREENING OF *STRATEGIES*

Screen for minimum TWDB guidance requirements

STEP 5

**DETAILED EVALUATIONS OF
SELECTED *STUDIES, PROJECTS & STRATEGIES***

STEP 6

FINAL RECOMMENDATIONS OF *STUDIES, PROJECTS & STRATEGIES*

Task 4B: Proposed Process

STEP 1

INITIAL SCREENING OF *STUDIES, PROJECTS & STRATEGIES* RECEIVED

Screen for minimum TWDB rules and guidance requirements

- Floodplain Management or Flood Mitigation Goal
- Emergency Need
- Drainage area greater or equal to 1 square mile*
- Reduces 100-yr (1% annual chance) flood risk

*except in instances of flooding of critical facilities or transportation routes or for other reasons, including levels of risk or project size, determined by the RFPG

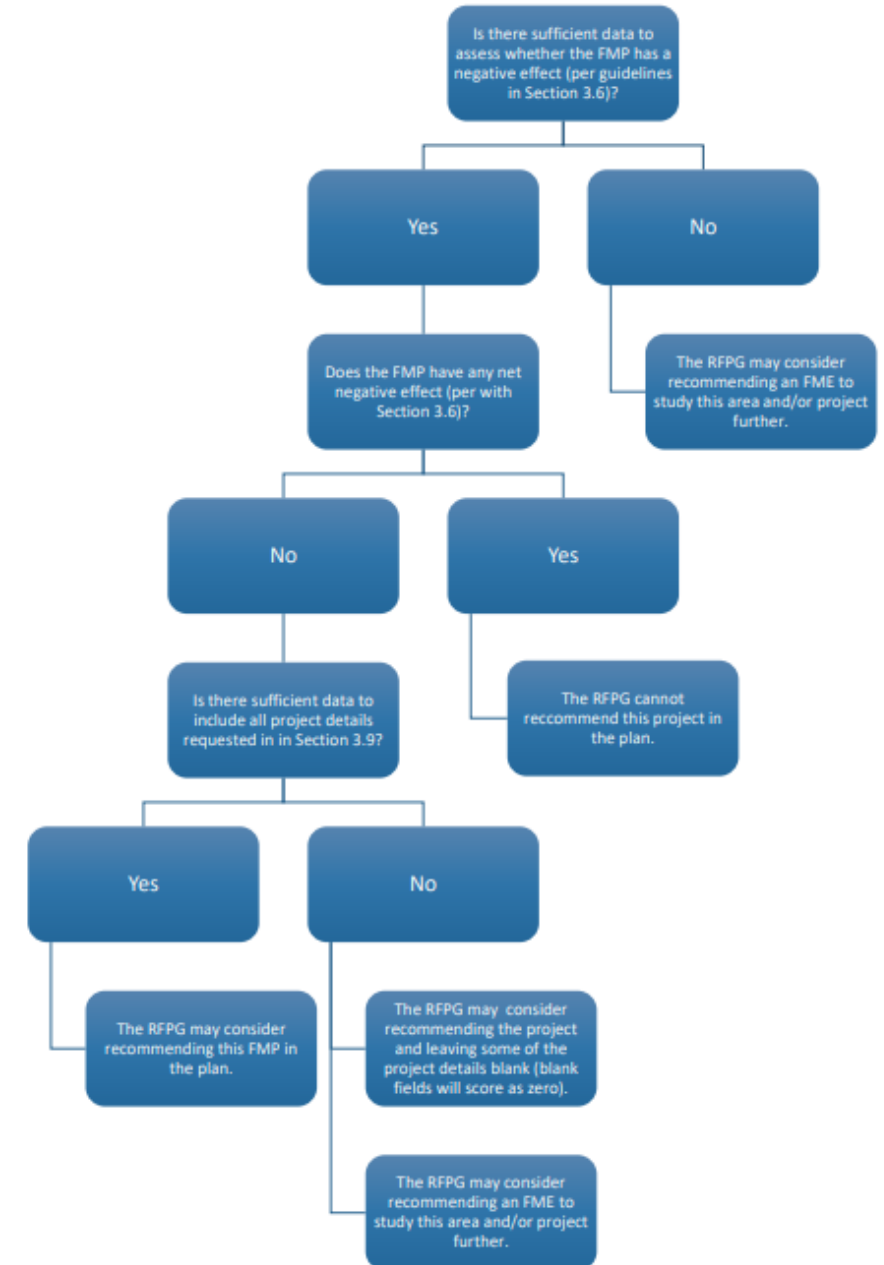
Task 4B: Proposed Process

STEP 2

SCREENING OF *PROJECTS*

Screen per TWDB flowchart and guidance

- Sufficient Data to Assess – modeling, mapping, reliable
- Net Negative Effect – 100-yr (1% ACE) inundation of structures and/or property
- Sufficient Detail – flood severity metrics, risk/damage reductions, capital and O&M costs, benefit/cost ratios, environmental benefits/impacts, implementation constraints, and others...



Task 4B: Proposed Process

STEP 3

SCREENING OF *STUDIES*

Screen for minimum TWDB guidance requirements

- Projects that do not have sufficient data/detail
- Planned evaluations provided by communities
- Other evaluation identified in Task 4A
- Screening
 - *With existing H/H – study mitigation alternative*
 - *Sensible*
 - *Reasonable planning level cost estimate*
 - *Identified Sponsor*
 - *Structures/population and Critical facilities at risk*
 - *Roadways at risk*
 - *Farm and Ranch land at risk*

Task 4B: Proposed Process

STEP 4

SCREENING OF *STRATEGIES*

Screen for minimum TWDB guidance requirements

- Proposed action that does not qualify as Project or Study
- Flexible
- Screening
 - *Planning level cost estimate*
 - *Identified Sponsor*
 - *Estimated flood risk and flood risk reduction*



Task 4B: Proposed Process

STEP 5

DETAILED EVALUATIONS OF SELECTED *STUDIES, PROJECTS & STRATEGIES*

- Benefit-Cost Ratio > 1.0
- Identified willing Sponsor(s)
- No known insurmountable implementation constraints (ROW, utility conflicts, permitting, etc.)
- **RFPG specific requirements to incorporate a project or strategy into the RFP?**
 - Example: Must include X% of “other” benefits?
 - Environmental/water quality
 - Water Supply
 - Erosion/sedimentation
 - Recreational
 - Example: X% of project includes nature-based solutions?

An aerial photograph of a vast wetland landscape. The terrain is a mix of green marshland and blue water channels. The water is calm, reflecting the sky and the surrounding vegetation. The horizon is flat and distant under a cloudy sky. A semi-transparent blue overlay covers the entire image, and a dark blue rounded rectangle is centered in the middle.

Look Ahead

Schedule



Meeting	Milestone Goals
May	Contracting & Introductions
June 2	Kickoff and Preplanning Meeting
June 30	Task 1 Data Collection; Task 2 Floodplain Map Review; Task 3 Flood Policy/Goals Kickoff
August	Task 1 Update; Task 2 Update; Task 3 Discussion; Task 10 Outreach Plan; Preplanning Meeting
September	Task 1 Prelim List; Task 2 Update; Task 3 Draft Goals; Task 4 Screening
October	Task 2 Approve Map; Task 3 Approve Goals; Task 4 Approve Screening
November	Task 4B FMP, FMS, FME Identification; Task 4C Preliminary Memo
December	Task 4C Draft Technical Memo
January	January 7, 2022 Tech Memo to TWDB Task 5 Recommendation process begins

Agenda Item 12

Consider date and agenda items for next meeting

Agenda Item 13

Public General Comments

Public Comments limited to 3 minutes per speaker

Agenda Item 14

Adjourn