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

Region 12 San Antonio RFPG 06/27/2022 1:30 PM

TAKE NOTICE that a meeting of the San Antonio Regional Flood Planning Group as established by the Texas Water Development Board, will be held on Monday, June 27, 2022, at 1:30 PM, in-person at the San Antonio River Authority Board room, located at 201 W. Sheridan St. and virtually on GotoMeeting at https:// meet.goto.com/277229789.

- Agenda: 1. (1:30 PM) Roll-Call
 - 2. Public Comments limit 3 minutes per person
 - 3. Approval of the Minutes from the Previous San Antonio Regional Flood Planning Group Meeting (Region 12)
 - 4. Communications from the Texas Water Development Board (TWDB)
 - 5. Chair Report
 - 6. Updates from Region 12 Subcommittees
 - 7. Presentation from Dave Mauk Regarding Low Water Crossings
 - 8. Discussion and Appropriate Action on Task 5
 - a. Recommendation of Flood Management Evaluations, Flood Management Strategies, and Associated Flood Mitigation Projects
 - 9. Discussion and Appropriate Action Regarding Proposed Changes per TWDB **Informal Comments**
 - 10. Discussion Regarding Allocation of Additional Funding
 - 11. Regional Liaison Update
 - 12. Public Comments limit 3 minutes per person
 - 13. Date and Potential Agenda Items for Next Meeting
 - 14. Adjourn

If you wish to provide written comments prior to or after the meeting, please email your comments to khayes@sariverauthority.org or physically mail them to the attention of Kendall Hayes at San Antonio River Authority, 201 W. Sheridan, San Antonio, TX, 78204 and include "Region 12 San Antonio Flood Planning Group Meeting" in the subject line of the email.

Additional information may be obtained from: Kendall Hayes (210) 302-3641, khayes@sariverauthority.org, San Antonio River Authority, 201 W. Sheridan, San Antonio, TX.

Meeting Minutes Region 12 San Antonio Regional Flood Planning Group Meeting Thursday, May 26, 2022 2:00 PM San Antonio River Authority

Roll Call:

Voting Member	Interest Category	Present (x) /Absent () / Alternate Present (*)
Brian Yanta	Agricultural interests	X
David Wegmann	Counties	
Derek Boese	River authorities	X
Doris Cooksey	Electric generating utilities	X
Deborah (Debbie) Reid	Environmental interests	X
Nefi M. Garza	Flood districts	X
Cara C. Tackett	Industries	X
Jeffrey Carroll	Municipalities	X
John Paul Beasley	Public	X
Suzanne B. Scott	Nonprofit	X
Steve Gonzales	Small business	X
David Mauk	Water districts	X
Steve Clouse	Water utilities	

Non-voting Member	Agency	Present(x)/Absent()/
		Alternate Present (*)
Marty Kelly	Texas Parks and Wildlife Department	X
James Guin	Texas Division of Emergency Management	
Jami McCool	Texas Department of Agriculture	
Jarod Bowen	Texas State Soil and Water Conservation	
	Board	
Kris Robles	General Land Office	X
Anita Machiavello	Texas Water Development Board (TWDB)	X
Susan Roberts	Texas Commission on Environmental	
	Quality	

Quorum:

Quorum: Yes

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

Number required for quorum per current voting positions of 13: 7

AGENDA ITEM NO.1: ROLL CALL

Ms. Kendall Hayes, San Antonio River Authority, called the role and confirmed a quorum.

AGENDA ITEM NO.2: PUBLIC COMMENT – LIMIT 3 MINUTES PER PERSON

No public comments.

AGENDA ITEM NO.3: APPROVAL OF THE MINUTES FROM THE PREVIOUS SAN ANTONIO REGIONAL FLOOD PLANNING GROUP MEETING (REGION 12)

Mr. Boese motioned to approve the minutes. Ms. Cooksey seconded the motion, motion passed.

AGENDA ITEM NO.4: COMMUNICATIONS FROM THE TEXAS WATER DEVELOPOMENT BOARD (TWDB)

Ms. Anita Machiavello provided an update on contract amendments and ensured that the RFPG is all receiving the TWDB newsletters.

AGENDA ITEM NO.5: CHAIR REPORT

Chair Garza provided an update on the City of San Antonio's bond. Proposition 2 (Drainage piece) received the highest voter approval. The city will organize a committee and four subcommittees to represent the multiple watersheds in the city and surrounding area.

AGENDA ITEM NO.6: UPDATES FROM REGION 12 SUBCOMITTEES

Mr. Boese provided an update on the Technical Committee's last meeting. The committee is currently reviewing the submitted FMX's and will submit a recommendation to the planning group at the June meeting. Discussion ensued regarding the criteria and timeline for submissions.

Ms. Scott provided an update on the Outreach Committee's last meeting. The region will host three outreach meeting in June. The purpose of these meetings is to discuss the goals and mission of the RFPG and educating the public on the process. Direct outreach was conducted to county and city elected officials.

AGENDA ITEM NO.7: DISCUSSION ON TASKS 6, 7, 8, 9 METHODOLOGIES

Mr. Ron Branyon provided a preview of Chapters 6-9. His presentation and recording of this meeting can be found on the Region 12 website at http://www.region12texas.org.

AGENDA ITEM NO.8: DISCUSSION AND APPROPRIATE ACTION REGARDING REGIONAL LIAISON REPRESENTATION

Chair Garza thanked the current liaisons for representing the RFPG at other regions' meetings. He opened the floor to a discussion on changing the liaisons. Ms. Scott noted that she asked Ms. Cooksey to serve as the new liaison for Region 11. Ms. Tackett asked that a different member serve as the liaison for Region 10. No alternate was selected. The RFPG asked Ms. Machiavello to inquire about the need for liaisons to attend meetings in person. More information to follow at a subsequent meeting.

AGENDA ITEM NO.9: REGIONAL LIAISON UPDATE

Analissa Peace, GEAA, provided an update on Region 11. Region 10 incorporated responses to TWDB's informal comments into their draft plan.

Kirby Brown provided an update on Region 10. They will meet next on June 9th and review the proposed FMX's and review Chapter 8.

Ms. Mauk provided an update on Region 13. At their next meeting, they will review Chapter 8.

AGENDA ITEM NO.10: PUBLIC COMMENTS

No public comments.

AGENDA ITEM NO.11: DATE AND POTENTIAL AGENDA ITEMS FOR NEXT MEETING

The Outreach Subcommittee will meet June 22 at 2:00 PM. The Technical Subcommittee will meet on June 23 at 2:00 PM. The Planning Group will meet next on June 27 at 1:30 PM.

AGENDA ITEM NO.12: ADJOURN

Ms. Reid motioned to adjourn. Ms. Tackett seconded the motion, motion passed.

Task 4B – Identification and Evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Management Strategies and Flood Mitigation Projects

TWDB requirements for Task 4B state that each RFPG is to develop and receive public comment on a "...proposed process to be used by the RFPG to identify and select flood management evaluations, flood mitigation strategies, and flood mitigation projects". This process, once adopted by the RFPG, is to be documented and such documentation is to be included in the Technical Memorandum, the Initial Draft Regional Flood Plan, and the adopted Regional Flood Plan.

The following describes the proposed process being considered by the RFPG and on which public comment will be taken, both during the December RFPG meeting and via written comments submitted through the RFPG's website. The process, as described below, was designed to conform with TWDB requirements as expressed in the rules, the scope-of-work for the regional flood planning process, and technical guidelines.

<u>Step 1: Conduct an initial screening of Projects, Evaluations, and Strategies that were received by or developed in conjunction with floodplain management communities/project sponsors:</u>

In this first step, screening is conducted based on minimum TWDB requirements. The screening criteria applied in this step are:

- The evaluation/strategy/project is related to a flood mitigation or floodplain management goal.
- The evaluation /strategy/project meets an emergency need.
- The evaluation /strategy/project addresses a flood problem with drainage area of 1 square mile or greater.
- The evaluation /strategy/project reduces flood risk for the 100-year (1% annual chance) flood.
- Exceptions for level of flood risk reduction or problem area size include instances of flooding of critical facilities, transportation routes, or other factors as determined by the RFPG.

Step 2-1: Screening of Projects (FMPs):

In the second step, potential Flood Mitigation Projects

(FMPs) are subjected to a screening-level evaluation based on the TWDB Technical Guidelines for Regional Flood Planning (April 2021) and specifically Figure 5 FMP flowchart (Attachment A). If a potential FMP does not satisfy the screening criteria in this step, it will then become a potential Flood Management Evaluation. There are three criteria that are applied in this step are: "sufficient data", "no negative effect", and "project details".

- Sufficient data The data upon which an assessment of no negative effect has been made must be reliable and have minimal uncertainty. H&H modeling, mapping, and basis for mitigation analysis must generally meet Section 3.5 of TWDB technical guidelines.
- No negative effect The potential Project must not have negative impact on the 100-year (1% annual chance) flood event. It must not raise the flood elevation or increase discharge of the

100-year flood event. Any of the following will disqualify the potential project in this screening step:

- Potential project increases inundation on homes, commercial buildings, critical facilities, and other structures.
- o Potential project increases inundation beyond existing or proposed ROW or easements.
- Potential project increases inundation beyond existing drainage infrastructure capacity.
- Project details Data used to define the potential project must include sufficient project details
 as described in Section 3.9 of TWDB technical guidelines, including but not limited to the
 following:
 - Flood severity level metrics
 - Flood risk/damage reduction metrics
 - Estimated capital and O&M costs
 - Benefit/Cost ratios
 - Environmental benefits/impacts
 - Potential for natural flood mitigation components
 - Implementation constraints
 - Water supply benefits

Step 2-2: Screening of Evaluations (FMEs):

Flood Management evaluations may fall into one of three general categories:

- 1. Potential projects (FMPs) that did not meet screening criteria Step 2-1.
- 2. Planned flood studies or flood risk reduction alternatives analyses provided by or developed in conjunction with floodplain management communities/project sponsors.
- 3. Potential flood studies or flood risk reduction alternatives analysis needs identified by the technical consultant in Task 4A.

In this step potential studies are screened based on the following criteria from TWDB technical guidelines and illustrated in the flowchart in Attachment B:

- Potential evaluation must identify structures, population, and critical facilities at risk within the flood problem area being studied.
- Potential evaluation must identify roadways impacted by flooding within the flood problem area being studied, if applicable.
- Potential evaluation must quantify area of agricultural land at risk within the flood problem area being studied, if applicable.
- Potential evaluation must have willing sponsor(s) identified that are willing to commit resources and some level of potential cost sharing.
- o Potential evaluation must have reasonable planning-level cost estimate.

If there is sufficiently detailed H&H analysis and flood mitigation alternatives analysis, then the Evaluation may be considered as Project (FMP) or Strategy (FMS)

Step 2-3: Screening of Strategies (FMSs):

Strategies are proposed plans or actions that reduce flood risk or mitigate flood hazards to life or property. Any proposed action that doesn't meet the criteria to qualify as an evaluation or as a project can potentially be considered as a strategy. Strategies can also be flood studies or flood risk reduction alternatives analysis needs that are identified in Task 4A. In general, RFPG has flexibility with what qualifies as Strategies.

In this step, Strategies are screened based on the following criteria from the TWDB technical guidelines:

- o Potential strategies must include a planning-level cost estimate.
- Potential strategies must have an identified sponsor(s) that are willing to commit resources and some level of potential cost sharing.
- Potential strategies must quantify the estimated flood risk being addressed and potential level of flood risk reduction.

<u>Step 3: Sorting of Projects, Evaluations and Strategies by Flood Mitigation and Floodplain Management</u> <u>Goals:</u>

In the third step, the projects, evaluations, and strategies identified will be assigned to one of more of the goals defined in Task 3B.

Step 4: Detailed assessment of selected Projects, Evaluations, and Strategies:

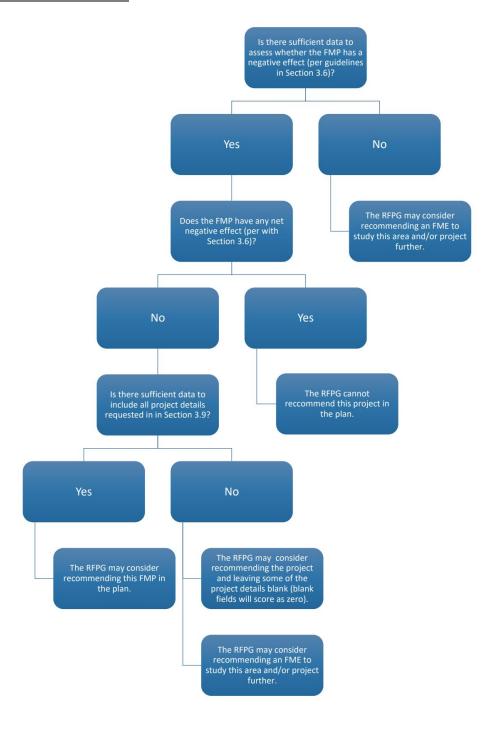
In the fourth step, potential evaluations, strategies, and projects that meet the criteria in the initial screening processes described in Steps 1 and 2 are to be evaluated further for potential feasibility and must meet the following:

- Potential projects are preferred to have an estimated benefit-cost ratio greater than 1.0. If less than 1.0 projects may still be considered with additional justification from the RFPG.
- Potential evaluations, strategies, and projects must have a willing sponsor(s) that has been verified.
- There must be no known insurmountable implementation constraints or hurdles, such as ROW acquisitions, utility conflicts, and/or permitting issues.
- Potential evaluations, strategies, and projects will be evaluated to identify maintenance requirements and their costs.
- Potential strategies and projects must include a description of residual, post-project, and future risks
- Potential strategies and projects must indicate potential use of federal funds, or other sources of funding, as a component of the total funding mechanism.

Step 5: Final recommendation of Projects, Evaluations, and Strategies:

In this final step recommended studies, strategies, and projects are to be incorporated in the initial draft and final regional flood plan. The regional flood plan must also include:

- Public comments and RFPG response on the recommended FMPs, FMEs and FMSs
- Initial and final adoption



^{*}From TWDB Technical Guidelines Figure 5: FMP Flowchart

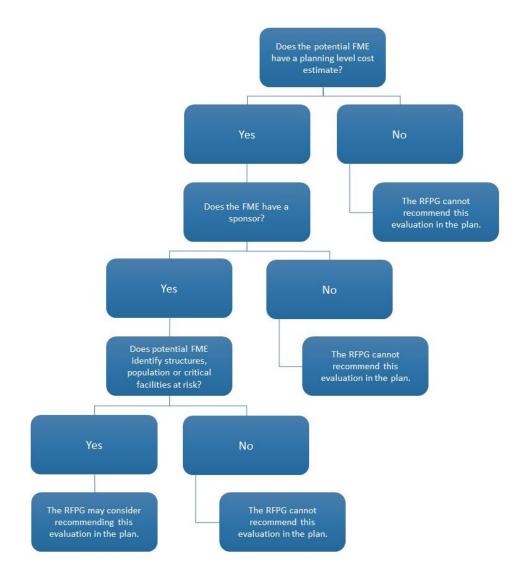


Exhibit C, Table 11 Regional Flood Plan, Flood Mitigation, and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associate Goal ID
12000001	12	San Antonio	Track and document existing public outreach and education activities that improve awareness of flood hazards and benefits of flood planning, including nature based solutions, in the region and ensure there are at least 6 additional occurrences per year.	Short Term (10 year)	2033	Entire RFPG		Establishing a baseline and ensure a minimum number of occurrences.	Education and Outreach	
12000002	12	San Antonio	Increase to 12 per year and maintain and increase public outreach and education activities to improve awareness of flood hazards and benefits of flood planning including nature based solutions in the region.	Long Term (30 year)	2053	Entire RFPG		Number of activities.	Education and Outreach	
12000003	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA and provide certificates of completion. Improve 50% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions including providing certificates.	Short Term (10 year)	2033	Entire RFPG		Number of trainings reaching FPMs.	Education and Outreach	
12000004	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA and provide certificates of completion. Improve 100% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions including providing certificates.	Long Term (30 year)	2053	Entire RFPG		Number of trainings reaching FPMs.	Education and Outreach	
12000005	12	San Antonio	Support the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Short Term (10 year)	2033	Entire RFPG		Increase the number of NFIP communities by 25%.	Flood Warning and Readiness	120000
12000006	12	San Antonio	Expand the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Long Term (30 year)	2053	Entire RFPG		Increase the number of NFIP communities too 100%.	Flood Warning and Readiness	120000
12000007	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 25% of existing or at minimum 10.	Short Term (10 year)	2033	Entire RFPG		Establish a baseline and increase the number of gages by 25% over 2022.	Flood Warning and Readiness	120000
12000008	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 50% of existing.	Long Term (30 year)	2053	Entire RFPG		Increase the number of gages by 50% over 2022.	Flood Warning and Readiness	120000
12000009	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Short Term (10 year)	2033	Entire RFPG		Increase by 40% of the NFIP communities.	Flood Warning and Readiness	120000
12000010	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Long Term (30 year)	2053	Entire RFPG		Increase to 100% of the NFIP communities.	Flood Warning and Readiness	120000
12000011	12	San Antonio	Establish a baseline and increase the number of NFIP communities which utilize Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 50% percent. (region specific)	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000012	12	San Antonio	Increase the number of NFIP communities which utilize/adopt Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 100%. (region specific)	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000013	12	San Antonio	Decrease the number of Zone X by 30% and increase the number of entities that conduct detailed studies to update their local flood risk by 25%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000014	12	San Antonio	Increase the number of entities that conduct detailed studies to update their local flood risk to 100%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000015	12	San Antonio	Decrease the average age of FEMA Flood Insurance Rate Maps (NFHL/FIRMs/FIS) to less than 10 years.	Short Term (10 year)	2033	Entire RFPG		100% of maps.	Flood Studies and Analysis	
12000016	12	San Antonio	Establish a baseline number of existing studies and process for analyzing watersheds to identify existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements.	Short Term (10 year)	2033	Entire RFPG		Establishing a baseline/ process and increasing the number of entities that use the process.	Flood Studies and Analysis	
12000017	12	San Antonio	Increase the number of participating Community Rating System (CRS) entities in the FPR by 5.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Flood Prevention	120000
12000018	12	San Antonio	Increase the number of participating entities within Community Rating System (CRS) in the FPR by 100% or improve their rating.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Prevention	120000
12000019	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 10%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Prevention	
12000020	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 50%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Prevention	
12000021	12	San Antonio	Increase the number of entities above the established baseline that have adopted a holistic watershed approach using existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements for flood risk reduction as a basis for comprehensive subdivision regulations.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Flood Prevention	120000
12000022	12	San Antonio	Establish a baseline and increase the number of acres of publicly protected open space by 10 % as part of land conservation and acquisitions to reduce future impacts of flooding.	Short Term (10 year)	2033	Entire RFPG		Establish a baseline and increase the number of protected acres.	Non-Structural Flood Infrastructure Projects	120000

Exhibit C, Table 11 Regional Flood Plan, Flood Mitigation, and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000023	12	San Antonio	Increase the number of restored acres of publicly protected open space land in the region.	Long Term (30 year)	2053	Entire RFPG		Number of restored acres.	Non-Structural Flood Infrastructure Projects	12000016
12000024	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 25%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Non-Structural Flood Infrastructure Projects	
12000025	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 75%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Non-Structural Flood Infrastructure Projects	
12000026	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 10%.	Short Term (10 year)	2033	Entire RFPG		Number of residential properties.	Structural and Non-structural Flood Infrastructure Projects	
12000027	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 50%.	Long Term (30 year)	2053	Entire RFPG		Number of residential properties.	Structural and Non-structural Flood Infrastructure Projects	
12000028	12		Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 50%.	Short Term (10 year)	2033	Entire RFPG		Number of vulnerable critical facilities.	Structural Flood Infrastructure Projects	
12000029	12		Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 100%.	Long Term (30 year)	2053	Entire RFPG		Number of vulnerable critical facilities.	Structural Flood Infrastructure Projects	
12000030	12	San Antonio	Identify the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Structural Flood Infrastructure Projects	
12000031	12	San Antonio	Eliminate or mitigate the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Long Term (30 year)	2053	Entire RFPG		Number of entities in the region.	Structural Flood Infrastructure Projects	
12000032	12	San Antonio	Increase the number of structural projects by 10% that include a NBS or Green Infrastructure (GI) component.	Short Term (10 year)	2033	Entire RFPG		Number of structural projects with NBS component.	Structural Flood Infrastructure Projects	
12000033	12	San Antonio	Increase the number of structural projects by 50% that include a NBS or Green Infrastructure (GI) component.	Long Term (30 year)	2053	Entire RFPG		Number of structural projects with NBS components.	Structural Flood Infrastructure Projects	

SARFP: FMP	/FME/FMS Identifi	ication Pro	ocess Table			Γ	*Steps defi	ined per Task 48 Process Outline. R	efer to Technical Memo.					Step 2-1: F	FMP			Step 2-2: FME		Step 2-3	3: FMS	Step	3	s	ep 4: Project Det	ails/Feasibility		Ste	p 4-1: Additional Pro	ject Details	Step 5		
											RFPG Allows		STRUCTURAL	NONSTRUCTURAL NA	to Manager Pffeet	Sufficient Project Details	ADDITIONAL INFO FMF	STUDIES P Will Identify	Has a Planning Level		Estimated Flood Risk					FMP ONLY		Atias 14					
General Community /Sponsor	ounty Source Name	Source Type Sour	ce Project Title Phas		ion Project Type	Project Description		i to Flood Meets Emergency gation/ Need ment Goal (FPR to define)	Addresses flood problem with DA > 1 mi^2	duces 100-year flood risk	Exemption for not meeting; - Problem Area Size	Type of Exemption	Sufficient Data (Y/N)	Sufficient Data (Y/N)	(Y/N)	(BCA, Cost Estimate, Struc/Pop/Crit.Facilitie s at Risk)	Identifies Need for Engineering Evaluation (Y/N/D)	Structures, Population,	Cost Estimate (Y/N/C)	Cost Estimate (Y/N)	or Flood Reduction (Y/N)	Associated Goal Types	Associated Goal	Project Cost Proje	Operations Maintena Cost	and	Sponsor Verified	(Y/N/U)	FMP ONLY Pre-Project	FMP ONLY Post-Project	Public Comment/RFPG Response	Notes	FMP_ID FME_ID FMS_ID
			(v)	N)			(%	/N) (Y/N)	(Y/N)	(Y/N) -	- Flood Risk Reduction (Y/N)		If "No" consider EMF	E If "No" consider FME If "	"No" consider FMF	(Y/N) If "No" consider FMF		(Y/N) If "No" consider FMS	If "No" consider FMS	If "No" consider FMS*	If "No" consider FMS*							If "No" consider additional FME for	Level of Service	Level of Service			
			(1)	N)						-			II NO COISIGE PINE	I NO COISIGN PAIR II I	NO COISIDEI PINE	II NO COISDE PME	If "D" develop	II NO COISIDEI PNS	If "C" calculate cost	ii No Colside PNS	II NO COISIDEI PINS							update					
																																More Info Needed	
Вехаг-					Dam																											Models(mentioned in description) No Negative Effect Sufficient Project Details	
Medina- Atascosa 1 WCID Me	Ina TWDB Active Projects (Dfund)	TWDB 2011	Lake Medina Dam Modifications N	Lake Medina E	Improvements, Maintenance an Dam Repair	d Existing gravity dam, modify by installing and testing post-tension anchors in the abutment sections of the dam.	, y		y y	-		Y	Y	. U		U			-			Structural Flood Infrastructure Projects		4000000 2011				U				Discuss FME if model is not Atlas 14.	1 1
					Detection Street																											Includes full benefit of projec	
City of Balcones 2 Heights Bex	Upper Woodlawn Lake or Drainage Study	Drainage Report 2014	Woodlawn Lawn Lake Option 1 (Phases 1 - 3) Y	Hillcrest Drive Balcones Heights Rd	improvements,	Detention, Storm drain improvements, Culvert Improvements, Roadway Improvements	¥		Y Y			Y	Y	. у	,	N	D		с			Infrastructure 1	12000029, 12000030, 12000033	\$10,000,000 2016			City of Balcones Heights	N				area, project combines Optio 1 - Phase 1 - 3 (Will need to Calculate Cost for further Study and/or Develop BCA)	1
City of Balcones 3 Heights Bex	Upper Woodlawn Lake Drainage Study	Drainage Report 2014	Woodlawn Lawn Lake Option 2 Y	Hillcrest Drive Balcones Heights Rd	e to drain improvements, Infrastructure	Detention, Storm drain improvements, Culvert Improvements, Roadway Improvements	Y		Y Y			У	Y	. у	,	N	D		с		ı.	Structural Flood 1 Infrastructure 1 Projects 1	12000029, 12000030, 12000033	\$5,500,000 2016			City of Balcones Heights	N				Will need to Calculate Cost for further Study and/or Develop BCA	2
						City-wide localized flooding drainage improvements (channel regrading, road improvements, and box culvert installation) to manage a 25YR event and reduce the effects a 100YR event; 2)Maple Street pavement and																											
						drainage improvements (installing a curb and gutter with a buried stormwater system) to decrease the flood risk in this area from a 2YR to a 10YR recurrence interval and mitigate erosion along the riverbanks and park; and 3)Riparian Improvements and Erosion Control on the Medina River																										More Info Needed - Models(mentioned in	
City of 4 Bandera Ban	dera TWDB Active Projects (FIF)	TWDB 2021	Drainage Improvements Y	City of Bander	Storm drain improvements	upstream of the dam along the city park (creating recreation and parking, adding native vegetation, and addressing stormwater issues) improve the	, y		A A	-		Y	Y			U						Structural Flood Infrastructure Projects		58,234,000 2021				у	<25-year	manage a 25-year storm event and reduce the effects a 100-year event		description) -No Negative Effect - Sufficient Project Details	1
		Master	PROJECT 1A - ADLER ROAD AT	Adler Road at Currey Creek																		Structural Flood										Need to Develop BCA with	
City of Boerne Bex	ar Boerne Master Drainage Plan	Drainage Plan 2021	CURREY CREEK AND UNNAMED TRIBUTARY A Y	and Unnamed Tributary A	d crossing improvements	Improve low water crossings along Adler Road, channel regrading, curbs, sidewalks, street reconstruction	у у	-	Y Y	-		Y	Y	. у	-	N	D		c			Infrastructure 1 Projects 1	12000029, 12000030	\$1,700,000 2021			City of Boerne	У	10-year The project is expected remove 33 structure from 10	100-year The project is expected remove 33 structure from 10- year floodplain, 59 structures		Traffic Counts; May need to calculate study cost	1
City of Boerne Bex	ar Boerne Master Drainage Plan	Master Drainage Plan 2021	PROJECT 2 - UNNAMED TRIBUTARY A REGIONAL DETENTION FACILITY Y	Unnamed Tributary A	Regional Detention, Infrastructure	Inline detention facility with culvert improvements	r Y		Y Y	-		Y	Y	. у	,	Y			-			Structural Flood Infrastructure 1 Projects 1	12000029, 12000030	57,400,000 2021		0.54	City of Boerne	У	from the 50-year floodplain,	year floodplain, 59 structures 8 from the 50-year floodplain, 8 structures from 100-year			1
																													remove 118 structures from the 10-year	The project is expected to remove 118 structures from the 10-year floodplain, 162 structures			
Gud.		Master	PROJECT 3 - CURREY CREEK		Regional Detention,																	Structural Flood	12000029,						from the 50-year floodplain, 174 structures from the 100- year	from the 50-year floodplain, 174 structures from the 100- year s floodplain, and 197 structures			
7 Boerne Bex	ar Boerne Master Drainage Plan	Drainage Plan 2021	REGIONAL DETENTION FACILITY Y	Currey Creek		Inline detention facility with additional storm drain improvements Y	у у	-	y y	-		Y	Y	- У	,	Y	_					Projects 1	12000029,	59,400,000 2021		2.79	City of Boerne	У	from the S00-year floodplain	from the 500-year floodplain			1
City of		Master Drainage	PROJECT 4 - SCHOOL STREET AT CIBOLO CREEK AND FREDERICK		at Low water and crossing	Elevated bridge, channel grading, street reconstruction, curb, sidewalks, and																Structural Flood Infrastructure										Need to Develop BCA with Traffic Counts; May need to	
8 Boerne Bex	ar Boerne Master Drainage Plan	Plan 2021 Master Drainage	PROJECT SD - OLD SAN ANTONIO STREET AT MENGER	OLD SAN ANTONIO STREET AT	Bridge Improvements;	Elevated bridge, channel grading, street reconstruction, curb, sidewalks, and	, ,	-	4 4			Y	Y	- Y		N	D	-	C			Structural Flood Infrastructure	12000034	55,300,000 2021	-	-	City of Boerne	Y	10-year	100-year		calculate study cost Need to Develop BCA with Traffic Counts; May need to	1
9 Boerne Bex	ar Boerne Master Drainage Plan	Plan 2021	CREEK Y	MENGER CREE	EK Infrastructure	driveways Y	y Y	-	A A	-		Y	Y	- Y		N	D	-	С	-		Projects 1	12000030	53,700,000 2021		-	City of Boerne	У	10-year The project is expected to remove 11	remove 11		calculate study cost	1
		Marter	PROJECT 6 - JOHNS ROAD NEAR	Johns Road pa	ear Storm Drain																	Structural Flood							structures from the 10-year floodplain, 15 structures from the 50-year floodplain, 18	structures from the 10-year floodplain, 15 structures from the 50-year floodplain, 18 structures from the 100-year			
10 Boerne Bex	ar Boerne Master Drainage Plan	Drainage Plan 2021	CIBOLO CROSSING SUBDIVISION Y	Cibolo Crossin	ng improvement	Storm drain, channel, increase capacity of existing detention	Y Y	-	y y	-		Y	Y	. у	,	Y	_					Infrastructure 1 Projects 1	12000029, 12000030	\$1,500,000 2021		0.86	City of Boerne	У	floodplain, and 21 structures	floodplain, and 21 structures from the 500-year floodplain The project is expected to			1
																													remove 11 structures from the 10-year floodplain, 26 structures from	remove 11 structures from the 10-year floodplain, 26 structures from			
City of Boerne Bex	ar Boerne Master Drainage Plan	Master Drainage Plan 2021	PROJECT 7 - SCHWEPPE AND HICKMAN STREET Y	Schweppe and Hickman Stree	Storm Drain d improvement, et Infrastructure	Storm drain, and channel improvements	, ,	-	¥ ¥			v	Y	. Y	7	Y						Structural Flood Infrastructure 1 Projects 1	12000029, 12000030	\$2,100,000 2021		0.82	City of Boerne	у	structures from the 100-year	the 50-year floodplain, 31 structures from the 100-year floodplain, and 35 structures from the 500-year floodplain			1
																													remove 7 structures from the 10-year	The project is expected to remove 7 structures from the 10-year			
City of		Master Drainage	PROJECT 8 - JOHNS AND	Johns and	Storm Drain Improvement,																	Structural Flood Infrastructure	12000029,						the 50-year floodplain, 12 structures from the 100-year	n floodplain, 12 structures from the 50-year floodplain, 12 structures from the 100-year floodplain, and 15 structures			
12 Boerne Bex	Boerne Master Drainage Plan	Plan 2021	LOHMANN STREET Y	Lohmann Stree	eet Infrastructure	Storm drain and channel improvements Y	y Y	-	A A	-		Y	Y	- Y	,	Y	-	-	-	-		Projects 1	12000030	51,800,000 2021		5.46	City of Boerne	У	The project is expected to remove 46	from the 500-year floodplain The project is expected to remove 46 structures from the 10-year			1
City of	Daniel Market Designer Dis	Master Drainage	PROJECT 9 - UNNAMED TRIBUTARY A- SUBDIVISION FLOOD PROTECTION & MOBILITY PROJECT Y	Unnamed Tributary A	Low water crossing																		12000029, 12000030	77 100 000		0.40	City of Boerne		floodplain, 59 structures from the 50-year floodplain, 42 structures from the 100-year	floodplain, 59 structures from the 50-year floodplain, 42 structures from the 100-year			
City of		Master Drainage	PROJECT 10 - E. BLANCO ROAD	Unnamed	crossing improvements;	Low water crossing improvements, channel improvements Improve low water crossings along Blanco Road, channel regrading, curbs,																Projects 1 Structural Flood Infrastructure				5.45			noodpani, and 17 structures	floodplain, and 27 structures		Need to Develop BCA with Traffic Counts; May need to	
14 Boerne Bex	Boerne Master Drainage Plan	Pain 2021	AT UNNAMED TRIBUTARY A Y	Tributary A	milastrocture	sidewalks, street reconstruction y										N.						Piojets	12000054	51,600,000 2021			City of Boerne		10-year	200-year		calculate study cost	
City of Boerne Rev	ar Boerne Master Drainage Plan	Master Drainage Plan 2021	PROJECT 11 - RIVER ROAD AT UNNAMED TRIBUTARY A Y	Unnamed Tributary A	Low water crossing improvements; Infrastructure	Improve low water crossings along River Road, channel regrading, curbs, sidewalks, street reconstruction	, Y	-	Y Y				Y	. v	,	N	D		с			Structural Flood Infrastructure Projects	12000034	\$1,400,000 2071			City of Boerne	Y	10-year	100-year		Need to Develop BCA with Traffic Counts; May need to calculate study cost	
																													10-year The project is expected to remove 2 structures from the 10-year floodplain, 4 structures from	The project is expected to remove 2 structures from the 10-year floodplain, 4 structures from			
City of	ar Boerne Master Drainage Plan	Master Drainage Plan 2021	PROJECT 12 - PLANT CHANNEL IMPROVEMENT Y	Tributary to	Regional Channe Improvements	d Channel improvements Y	,	_	Å .				Y			N	D.		c			Structural Flood Infrastructure 1 Projects 1	12000029, 12000030	\$1.300.000			City of Boerne	y .	the 50-year floodplain, 6 structures from the 100-year floodplain, and 4 structures	the 50-year floodplain, 6 structures from the 100-year floodplain, and 4 structures from the 500-year floodplain		Need to Develop BCA with Traffic Counts; May need to calculate study cost	
City of		Master Drainage	PROJECT 13 - HERFF AND ESSER ROAD IMPROVEMENTS AT	Cibolo and	Storm Drain improvement,	Bridge at Currey Creek and Esser Road, Bridge at Cibolo Creek and River													_			Structural Flood Infrastructure	12000029, 12000030	717 300 000 3031						100		Need to Develop BCA with Traffic Counts; May need to	
17 Boerne Bex	Boerne Master Drainage Plan Boerne Master Drainage Plan	Master	CURREY AND CIBOLO CREEK Y PROJECT 14 - EAST BOERNE DEGLOWAL LID.	Currey Creek Cibolo Creek a Boerne Middle	and le Nature Based	Road, Channel grading, Roadway reconstruction Proposed inline extended detention facility that provides water quality benefits to the urbanized tributary of Cibolo Creek and properties detentions of Scanic Long Organized	, .		Į Í				v		ľ	N.	D.					Structural Flood Infrastructure	12000029,	2021			City of Boerne	v				Need to Develop BCA with Traffic Counts; May need to	
18 Boerne Bex	poeme Master Orainage Plan	гын 2021	REGIONAL LID Y	school south	riuject	downstream of Scenic Loop Road Y	Y		. 4		-	y	•	, a	ľ	-			-		•	Projects 1	12000030	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			City of Boerne		The project is expected to remove 151	remove 151		calculate study cost	14
				North Currey																									floodplain, 196 structures from the 50-year floodplain, 216 structures from the 100-	from the 50-year floodplain, 216 structures from the 100-			
City of 19 Boerne Bex	ar Boerne Master Drainage Plan	Master Drainage Plan 2021	PROJECT 15 - NORTH CURREY CHANNEL IMPROVEMENTS Y	Creek at Bluebonnet Circle	Regional Channe Improvements	t Channel regrading, curbs, sidewalks, street reconstruction Y	r Y		Y Y	-		Y	Y	- Y	-	N	D		с			Structural Flood Infrastructure 1 Projects 1	12000029, 12000030	5700,000 2021			City of Boerne	Y	year floodplain, and 237 structure from the 500-year floodplain The project is expected to	year s floodplain, and 237 structures from the 500-year floodplain The project is expected to		Need to Develop BCA; and Calculate Study Cost	1
																													remove 151 structures from the 10-year floodplain, 196 structures from the 50-year floodplain,	remove 151 structures from the 10-year floodplain, 196 structures from the 50-year floodplain,			
		Master	PROJECT 16 - SOUTH CURREY		Low water																	Structural Flood							216 structures from the 100- year floodolain, and 237 structure	216 structures from the 100- year s floodolain, and 237 structures			
City of Boerne Bex	ar Boerne Master Drainage Plan City of Bulverde Mapping Improvements Cibolo Creek	Drainage Plan 2021	CREEK CHANNEL IMPROVEMENTS Clbolo Creek Tributary 19	Currey Creek	crossing; Infrastructure	Low water crossing improvements, channel improvements	r Y		Y Y			У	Y	- Y	,	N	D	-	с	-		Infrastructure 1	12000030 12000011,	\$1,500,000 2021	-		City of Boerne	Y	and improve LOS from 10- year to 100-year	from the 500-year floodplain and improve LOS from 10- year to 100-year		Need to Develop BCA; and Calculate Study Cost	1
City of Bulverde Con	al Tributary 19 Drainage Report City of Bulverde Mapping Improvements Indian Creek	Report 2016 Drainage	Mapping Improvements N Indian Creek Mapping		Assessment	Alternative Analysis and Project recommendation Y	у у		N Y			Y	Y	. 0	,	N	Y	-	с	-		Analysis I Flood Studies and I	12000014 12000011, 12000013,	-	-	-	City of Bulverde	N				Calculate Study Cost	1
22 Bulverde Con	City of Bulverde Mapping Improvements Lewis Creek	Report 2016	Improvements N	Indian Creek	Assessment Regional Channe improvements,	Alternative Analysis and Project recommendation y	γ γ	-	Y N	-				N -			-	Y	N				12000014				City of Bulverde	N		-		Calculate Study Cost Includes full benefit of stream	n,
City of 23 Bulverde Con	Watershed Phase 2 Alternative all Analysis Drainage Report		Lewis Creek Tributary 2 Alternative 1 & 2	Lewis Creek Tributary 2	Detentions; Infrastructure	Channel widening/lowering, culvert improvement, roadway improvement	Y		Y Y			у	Y	. y	,	Y			-	- -		Structural Flood 1 Infrastructure 1 Projects 1	12000030, 12000033	52,669,190 2016		0.19	City of Bulverde	N				project Combines Alternative 1 & 2	1

SARFP: FMP/	'FME/FN	MS Identific	cation Pro	cess Table			Step 0	Steps defined per Task 48 Process Outl	ine. Refer to Technical Mer	TIO.				Step 2-1	: FMP			Step 2-2: FME		Step 2-3: FMS	Step	p 3	s	tep 4: Project Deta	ils/Feasibility		Step	4-1: Additional Pro	ject Details	Step 5			
											RFPG Allows					Sufficient Project Details	ADDITIONAL INFO FMP	STUDIES															
General Community Cou	unty	Source Name	Source Type Source	Phas Damage Project Title	ed/ e Area Project Location Project Type	Project Description	Screening: Already	Related to Flood Meets Emergi Mitigation/ Need Management Goal (FPR to defin	problem with DA	d > 1 Reduces 100-year flood risk	Exemption for not meeting;	Type of	STRUCTURAL Sufficient Data (Y/N)	NONSTRUCTURAL Sufficient Data (Y/N)	No Negative Effect (Y/N)	(BCA, Cost Estimate, Struc/Pop/Crit.Facilitie s at Risk)	Identifies Need for Engineering Evaluation	Will Identify Structures, Population, and Critical Facilities at Risk	Has a Planning Level Cost Estimate (Y/N/C)	Has a Planning Level Estimated Flood R or Flood Reduction (Y/N) (Y/N)	Associated Goal	Associated Goal	Project Cost Projec	Operations a Maintenance	nd Benefit-Cost	Spansor Verified	Atlas 14 (Y/N/U)	FMP ONLY	FMP ONLY	Public Commen		FMP_ID	FME_ID FMS_ID
ID /Sponsor Cou			Date				completed?	(Y/N) (Y/N)		(Y/N)	- Problem Area Size - Flood Risk Reduction (Y/N)	Exemption				(Y/N)	(Y/N/D)	(Y/N)			Types	IDs		Cost	Ratio		600 B 11	Pre-Project Level of Service	Post-Project Level of Service	Response	'		
				(4)	N) Lewis Creek						(-29		If "No" consider FME	If "No" consider FME	If "No" consider FME	If "No" consider FME	If "No" consider FMS If "D" develop	If "No" consider FMS	f "No" consider FMS If "C" calculate cost	If "No" consider FMS* If "No" consider FN	uts*					a	f "No" consider dditional FME for update						
City of	Improver Watershi	ulverde Mapping ments Lewis Creek red Phase 2 Alternative	Drainage	Lewis Creek Alternative 1	Main at Smithson Valley Road and Scenic Regional Channel	1															Structural Flood 1	12000029, 12000030,									Includes full benefit project combines Alt		
24 Bulverde Comal	City of Bu	Drainage Report Julyerde Mapping ments Lewis Creek	Report 2016	Phase 1 & 2 Y	Oak Drive Improvements Lewis Creek Main at Smithson Valley	Channel improvement, roadway improvement		-	Y	Y			Ā	- 1		Y					Projects 1	12000033	5,468,250 2016	-	0.11	City of Bulverde N	-	•	-		- Phase 1 & 2	1	
City of 25 Bulverde Comal	Watershi	ed Phase 2 Alternative Drainage Report	Drainage Report 2016	Lewis Creek Alt 1 Y	Road and Scenic Flood Early	High water detection system. System includes warning signs, with flashers and automatic arm barricade.			Y	N	-			у ,		Y	-				Flood Warning 3 and Readiness 3	12000005, 12000006	150,000 2016	-		City of Bulverde N			-		Benefit Criteria Score		
City of 26 Bulverde Comal		reek Watershed Master Plan	Watershed Master Plan 2018	FM 1863 at Cibolo Creek LWC Replacements (2 crossings) N	Low water FM 1863 crossing Bulverde improvements	Replace low water crossings at two locations where FM1863 crossing Clb Creek with bridges.	olo		U	Y	-		Y	- 1		Y	-				Structural Flood Infrastructure Projects	12000033	8,000,000 2018	-		SARA N			-	-	calculated; May be a as BCR (0.29FT Nega effect)	ble to use tive	1
						ZD Detailed Model Needed. LC-3: There is no existing drainage system drains the area. Regular rainfal	.																										
						causes widespread flooding, affecting roads, yards, and structures. This project proposes to analyze plan and construct a storm drain system The project will also provide collection improvements and minor roadwa	ı. ıy																										
						drainage-scale improvements. LC-4: An existing drainage system drains the area, however the level of service is far below standard, causing widespread flooding of roads, yards																											
City of	Castrovill	lle Drainage Master	Drainage	LC-3 – Athens Street Storm Drainage Improvements, LC-4 - Naples Street Storm Drainage	City of Castroville, Area Engineering	and structures. This project proposes to analyze plan and construct either a replacement system or supplemental conveyance. The project will also provide															Flood Studies and										More Information N	reded	
27 Castroville Medin	ina Plan		Master Plan 2022	Improvements Y	LC Project Planning	collection improvements and minor roadway drainage-scale improvements study of Flat Creek and downstream connectivity to Medina River. This proposed project will provide an updated detailed study including bo current and expected ultimate watershed build-out conditions.	nts. Y		U	Y	-		N			-	Ā	- с		-	Analysis		C-3: \$500000			. у					- Drainage Area		1
						Furthermore this project will identify at-risk infrastructure and detail opportunities for flood risk reduction.																											
City of						The project will provide mitigation plans and guidance to local government with resard to risks due to development and outline watershed-wide	nt														Flood Studies and												
28 Castroville Medin	ina Castrovill	lle Wish List	Wish List 2022	Flat Creek Study N	Castroville Modeling	solutions for planning purposes. Planned development occurring north of the City lacks a defined conveyar system and potential downstream impacts to the City.	y y		Y	N	-		-	N			-	Y C		-	Analysis		-	-		- у	-		-				1
						This proposed project will provide an updated detailed study including bo current and expected ultimate watershed build-out conditions. Furthermore this project will identify at-risk infrastructure and detail	th																										
					Hydrologic and	opportunities for flood risk reduction. The project will provide mitigation plans and guidance to local government	nt																										
City of Castroville Medin	ina Castrovill	lle Wish List	Wish List 2022	New Development Study N	City of Hydraulic Castroville Modeling	with regard to risks due to development and outline watershed-wide solutions for planning purposes.			Y	N				N .			- ,	ч с			Flood Studies and Analysis		-	-		Y					More Information No specific location. Preliminary BCR calc	eded on	1
City of Fair 30 Oaks Ranch Bexar	City of Fa r Drainage	air Oaks Ranch Master e Plan	Master Drainage Plan 2018	7820 Rolling Acres Trail N	7820 Rolling Crossing Acres Trail Improvements	Low water crossing. Road closure gate is deployed at this crossing during large storm events.	:		U	Y		-	Y	- 1	,	N	D.	. с		_	Structural Flood Infrastructure Projects	12000033	685,000 2018			City of Fair Oaks Ranch N					specific site location Needs to Develop BC Calculate study cost Preliminary BCR calc	R;	1
City of Fair	City of Fa	air Oaks Ranch Master	Master Drainage		7840 Silver Spur Crossing	Runoff collects from the northside of the city and passes this point before passing under Keeneland then to the Obolo Creek Post Oak Creek low wat	e ter														Structural Flood Infrastructure					City of Fair Oaks					specific site location Needs to Develop BC		
31 Oaks Ranch Bexar	r Drainage	e Plan	Plan 2018 Master	7840 Silver Spur Trail N	Trail Improvements Storm drain	crossing. Utilize existing stormwater infrastructure by regarding the roadway to slo towards existing inlets and open channels on the north and south side of Windermere Dr on the east side of Fair Oaks Parkway. New curb installed			U	¥	-		Y	-		N	D	- с		* *	Projects 1 Structural Flood	12000033	690,000 2018			Ranch N					Calculate study cost		1
City of Fair Oaks Ranch Bexar	City of Fa r Drainage	air Oaks Ranch Master e Plan	Drainage Plan 2018	29010 Tivoli Way N	29010 Tivoli improvements,	along the west side of Fair Oaks Parkway to convey water towards stormwater inlet would also improve collection.		· .	U	Y	-		Y	- 1		Y	-				Infrastructure 1	12000029, 12000030	500,000 2018	-	6.92	City of Fair Oaks Ranch N			-			1	
City of Fair 33 Oaks Ranch Bexar	City of Fa r Drainage	air Oaks Ranch Master e Plan	Master Drainage Plan 2018	8410 Noble Lark Dr N	8410 Noble Lark Regional Channe Dr Improvements	Regrade channel and install erosion control measures, repair the eroded foundation of the culvert headwall	ı	ч -	U	U			Y		,	N	D .	- с			Structural Flood Infrastructure 1 Projects 1	12000029, 12000030	223,066 2018			City of Fair Oaks Ranch N							1
City of Fair 34 Oaks Ranch Bexar	City of Fa r Drainage	air Oaks Ranch Master e Plan	Master Drainage Plan 2018	7900 Fair Oaks Parkway N	7900 Fair Oaks Regional Channel Parkway Improvements	Analysis needed to confirm no adverse impacts on the solution that was implemented.			U	U			Y	- 1		N	D .	- с			Flood Studies and 1 Analysis	12000011, 12000013, 12000014	10,000 2018			City of Fair Oaks Ranch N							1
City of Fair Oaks Ranch Bexar	City of Fa r Drainage	air Oaks Ranch Master e Plan	Wish List 2018	Ammann Road Low Water Crossing N	Road Low Water Crossing	Low water crossing runs over the street due to insufficient cuiverts that p under Ammann Road. Replacing the current road with an elevated concre bridge above the flood stage.	ass ite		U	U			Y		,	N	D .	- с			Structural Flood Infrastructure Projects	12000033	1,124,334 2018			City of Fair Oaks Ranch N					Need to Calculate Str and Develop BCA	udy Cost	1
			Master		Low Water																Structural Flood												
City of Fair 36 Oaks Ranch Bexar		air Oaks Ranch Master e Plan	Master	7420 Rolling Acres Trail N		Low Water crossing moves toward home on Meadow Creek Trail. Road Closure gate is deployed at this crossing during large storm events.			U	U	-		Y	- 1		N	D .	- с			Infrastructure Projects	12000033 S	759,566 2018	-		City of Fair Oaks Ranch N			-		Need to Calculate Str and Develop BCA	udy Cost	1
Oaks Ranch Bexar	r Drainage			8402 Battle Intense N	Intense Improvements Low Water	Battle intense is often shut down in large rain events. Debris collects and damages this low water crossing			U	U	-		¥	- 1		N	D	- с			Flood Studies and 1 Analysis 1		3,421,454 2018	-		City of Fair Oaks Ranch N			-		Need to Calculate Str and Develop BCA		1
Olty of Fair Oaks Ranch Bexar City of Fair	r Drainage	air Oaks Ranch Master e Plan air Oaks Ranch Master	2018	Rolling Acres Trail LWC Flow- activated Sensors N Battle Intense LWC Flow-	Trail LWC Improvements Low Water	Add flow-activated sensors and automated drop-down arms to close off a road when the water has surpassed the road. Add flow-activated sensors and automated drop-down arms to close off a			U	U	-		N	. ,		N	D .	- с		-	Flood Warning and Readiness 1 Flood Warning	12000005	400,000 2022	-		City of Fair Oaks Ranch N City of Fair Oaks				-	Need to Calculate Str and Develop BCA Need to Calculate Str		1
39 Oaks Ranch Bexar	r Drainage	e Plan	2018 Hazard	activated Sensors N	LWC Improvements Education and Outreach;	road when the water has surpassed the road. Identify residential structures that are located in flood zones or high haza	rd		U	U	-		N	- 1		N	D	- с			and Readiness 3	12000005 12000011,	200,000 2022	-	-	Ranch N			-	-	and Develop BCA Buyout and/or Flood		1
Gity of Falls Oity Karnes	Karnes ai es Hazard N	and Wilson Counties Mitigation Plan	Mitigation Plan 2020	Inventory of residences in floodplain N	City of Falls City Guidance	areas and develop plan and implement a program for floodproofing or acquisition.		N .	U	N	-			N -			- ,	у с		-	Flood Studies and 3 Analysis		50,000 2020	-		Karnes County HMT, SARA N			-		Program (Need to Ca Study Cost)	Iculate	1
City of Falls	Karnes a	and Wilson Counties Mitigation Plan	Hazard Mitigation	Update flood information and policies N	Outreach; Regulatory and	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA stud	/															12000021,	100.000			Karnes County HMT, SARA N					Same Study as Above Calculate Cost); Mas Drainage Plan could	ter	
41 City Karner	is Hazard N	wingation Plan	Hazard	ponces		and review permitting process based on the 100-year flood event. When the San Antonio River floods, the city is cutoff from the rest of the county (hospital and EMS) with islands lasting over a week. Install stream			0									, .			Place Prevention 1	12000022	2020			Local, County,					encompass this		
City of Falls 42 City Karner	Karnes ar es Hazard N	and Wilson Counties Mitigation Plan	Plan 2020	Study the San Antonio River and its tributes N	Regulatory and Oty of Falls City Guidance Education and	gauges and develop a study to identify solutions to flooding. SARA comple a study but County officials wary due to lack of coordination and results.	rted		U	N				N .			- 1	N N		Y N	Flood Warning and Readiness 3	12000007	250,000 2020			TWDB, HMGP, PDM N					Similar to Studies Ab be FME or FMS	ove; Can	1 1
City of Falls City Karnes	Karnes ar	and Wilson Counties Mitigation Plan	Hazard Mitigation Plan 2020	San Antonio River drainage ownership study N	Outreach, Natural Based	Develop ownership and access understanding parcels fronting the San Antonio River and major tributaries to have better agreements and access areas that need flood control mitigation and erosion control	s to		U	N	-			N				N Y		y N	Education and Outreach	12000001	30,000 2020			Local, TWDB, SARA N		-	-		Develop Strategy Co		1
City of Falls	Holistic V	Watershed Master Karnes, and Goliad		Karnes County Damage Centers	US 181 and San																Flood Studies and 1	12000011, 12000013.									FRR calculated Need develop BCR; May no calculate study cost	is to ed to	
44 City Karner	es Counties		2015	Karnes A N	Antonio River Infrastructure	Multiple structures at risk Within San Antonio River at US 181			U	Y	+	-	¥		-	N	D	- с			Analysis 3	12000013,	3,659,356 2015	-	-	SARA N			+	-	Acquisition Cost Calc	ulated is to	1
City of Falls 45 City Karnes	Plan	Karnes, and Goliad	2015	Karnes County Damage Centers Karnes B N	US 181 and San Regional Channel Marcelinas creek Improvements	 Multiple structures at risk Within Marcelinas Creek at US 181			U	Y	-		¥	. ,		N	D	. с			Flood Studies and 3 Analysis	12000011, 12000013, 12000014	3,659,356 2015	-		SARA N			-	-	develop BCR; May no calculate study cost ' Acquisition Cost Calc	ed to /oluntary	1
		Ī				Assess existing floodplain management ordinances and recommend									7							Ī				City Council,	Ţ						
City of	Karnes a	and Wilson Counties	Hazard Mitigation	Enhance floodplain	Regulatory and	improvement to mitigate the flood and water quality impacts of new development and redevelopment. This can include requirements for drainage easements, water detention, road design, Base Flood Elevation																				Floodplain Manager, Planning							
46 Floresville Wilson City of	on Hazard N Karnes a	Mitigation Plan	Plan 2020 Hazard Mitigation	management ordinances N	City of Floresville Guidance Watershed	(BFE) height requirements, and green infrastructure Study to identify roadways that are submerged during high frequency rai events and develop and implement a flood/high water early warning syste	in em	-	N	N	-	-		N -			-	N -		Y N	Flood Prevention Flood Studies and		200,000 2020	-		Department - Engineering,			-				1
47 Floresville Wilson City of	on Hazard N Karnes a	Mitigation Plan and Wilson Counties	Plan 2020 Hazard Mitigation	Flood early warning system N Update IBC to 2015 version and		to notify city, county, and first responders. The city will adopt and enforce the measures and guidelines of Internation Building Code (IRC) 2015. This will increase the resilience of structures to	nal	,	Y Y	N .			-	N				y y			Analysis	İ	150,000 2020		-	Planning Y City Council, City Manager, Code	-						1
48 Floresville Wilson City of Floresville Wilson	Karnes at	Mitigation Plan and Wilson Counties Mitigation Plan	Plan 2020 Hazard Mitigation Plan 2020	Floresville 2 - Drainage Improvements at Identified	Watershed	natural hazards, in regard to Flooding. Consult SARA San Antonio River lower watershed plan and to identify and rank improvements to mitigate flooding at low water crossings and improvement reliability of transportation system during hazardous events	ove		Y	N N	-			N .				y .		N N	Flood Studies and Analysis		75,000 2020	-		Engineering, Planning Y			-				1
Wilson	mazard N	-g171811	2020	The state of the s	The same of the sa	reliability of transportation system during hazardous events. Phase I: Undertake storm water drainage study for the City of Floresville protect people and property from flood events, manage the stormwater pipe system, enhance streams and floodplains, and recommend policy at	r nd											ľ					2020			City Manager,							
City of Floresville Wilson	Karnes as on Hazard N	and Wilson Counties Mitigation Plan	Hazard Mitigation Plan 2020	Develop and adopt a Stormwater Master Plan Y	Watershed City of Floresville Planning	regulatory enhancements. Phase II: Implement recommendations from study of most critical flood control improvements, low water crossing upgrades.	,		Y	N				N .				у у			Flood Studies and Analysis		350,000 2020		-	Floodplain Manager, Engineering Y							1
		Ī				Designate a local floodplain manager and provide education materials online, and to real estate and insurance agencies to increase community understanding or flood insurance. Hold a town hall meeting with NFIP representatives to discuss the insurance purchase process. Enter the									7							Ţ					T						
City of	Karnes	and Wilson Counties	Hazard Mitigation		Regulatory wed	representatives to discuss the insurance purchase process. Enter the Community Rating System (CRS) program to enable reduced insurance premium; within the community. The first priority is to establish a progra for public information (PPI) with a PPI committees as suggested by activity																				Floodplain							
51 Floresville Wilson City of	on Hazard N	Mitigation Plan	Plan 2020	Improve Compliance with NFIP N Water System Emergency	City of Floresville Guidance Studies on Flood	332 of the CRS coordinator's Manual. Develop an Emergency Response Plan to identify vulnerabilities in the wat treatment and delivery systems and address possible water supply			N	N	-			N -		-	-	N -		y N	Flood Prevention Flood Warning		20,000 2020	-		Manager - Engineering			-				1
52 Floresville Wilson City of	on Hazard N Karnes a	Mitigation Plan	Plan 2020 Hazard Mitigation	Response Plan N Citizen flood education	City of Floresville Preparedness Education and	distribution or contamination scenarios. Educate citizens about mitigation strategies prior to any flood conditions, including dangers of debris flooding roads and how to best floodproof		-	A	N	-	-	-	N				Y Y			and Readiness Education and		250,000 2020	-	-	Department Y City Council, City	-		-				1
	on Hazard N	Mitigation Plan	Plan 2020 Hazard	outreach N	City of Floresville Outreach	homes and businesses. Establish and implement a voluntary "acquisition and demolition program" acquisition and structure relocation program", "structure elevation	c	-	N	N	-	-		N		-	-	N -		Y N	Outreach	ľ	10,000 2020	-	-	Manager, ISD -			-				1
City of Floresville Wilson	Karnes at on Hazard N	and Wilson Counties Mitigation Plan	mitigation Plan 2020	Property acquisition and demolition and/or relocations N		program" to address repetitive loss, flood prone properties. Keep lands subject to repetitive flooding in natural state in perpetuity.			N	N				N .			-	N .		y N	Flood Prevention	!	1,500,000 2020	-		City Council, Planning -			-				1

SARFP: FMP/FME/FMS Identification Process Table			ps defined per Task 48 Pro	rocess Outline. Refer to						S 24-5				C 22 FMF				C 2		Ct 4- P-	alas Data lla francis illa	p 4-1: Additional Proje			7	
SART. FWIP/FWIE/FWIS INCHILITICATION FIOCESS TABLE		Step 0			Step 1					Step 2-1: Ff		Sufficient Project	ADDITIONAL INFO FMP	Step 2-2: FME		Step 2-3:	FIVIS	Step 3		Step 4: Pr	oject Details/Feasibility Ste	p 4-1: Additional Proje	ect Details	Step 5		
	Phased/		telated to Flood Med		Addresses flood	Reduces 100-year	RFPG Allows Exemption for not meeting;	STF Suff	RUCTURAL NON ficient Data Suf	micient Data		Details A BCA, Cost Estimate,	Identifies Need for	Will Identify Structures, Population, and Critical Facilities	Has a Planning Level Cost Estimate	Has a Planning Level Es Cost Estimate o	stimated Flood Risk or Flood Reduction				FMP ONLY Atlas 14 Operations and	FMP ONLY	FMP ONLY			
General Community ID /Sponsor County Source Name Source Type Source Date Project Title	Damage Area Project Location Project Type Project Description	Screening: Already completed?	lanagement Goal (Fi	FPR to define)	mi^2	flood risk (Y/N)	Problem Area Size Flood Risk Reduction	Type of Exemption	(Y/N)	(Y/N)	(Y/N) Str	ruc/Pop/Crit.Facilitie E s at Risk)	Engineering Evaluation (Y/N/D)	at Risk	(Y/N/C)	(Y/N)	(Y/N) Asso	Types IC	ed Goal Project Cost	Project Cost Date	Maintenance Reports Cort (Y/N/II)	Pre-Project Level of Service	Post-Project Level of Service	Public Comment/RFPG Response	Notes	FMP_ID FME_ID FMS_ID
-			(Y/N)	(Y/N)	(Y/N)	(-7-4)	(Y/N)					(Y/N)	If "No" consider RMS	(Y/N)	If "No" consider FMS						If "No" consider					
Hazard	(Y/N)							If "No"	consider FME If "No"	o" consider FME If "N	o" consider FME If	"No" consider FME	If "No" consider FMS If "D" develop	If "No" consider FMS	If "C" calculate cost	If "No" consider FMS* If "	"No" consider FMS*				additional FME for update					
City of Karnes and Wilson Counties Mitigation Develop Funding Mechanism SS Floresville Wilson Hazard Mitigation Plan Plan 2020 for Flood Mitigation N	Regulatory and Implement impact fees and drainage utility fees to fund improvements to municipal drainage and flood control network.	o the		N	N			-	N	-	-			N		y N	Flood	f Prevention	\$150,000	2020	City Manager, - City Council -					1
City of Karnes and Wilson Counties Mitigation Update flood information and	Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition City of Karnes Education and elevation program based on FEMA protocol in sociation with SRA protocol in Sociation with SRA protocol in SAC	/ des.																1200002							Buyout and/or Floodproofing Program (Need to Calculate Study Cost); Master Drainage	
56 Karnes City Karnes Hazard Mitigation Plan Plan 2020 policies N Hazard City of Karnes and Wilson Counties Mitigation San Antonio River drainage	Gity Outreach and review permitting process based on the 100-year flood event. Develop ownership and access understanding parcels fronting the San City of Karnes Education and Antonio River and major tributaries to have better agreements and access	N N	-	U	N		-	-	N	-		-		Y	С		Flood	Prevention 1200002 ation and	\$100,000	2020	N N		-		Plan?	1
57 Karnes City Karnes Hazard Mitigation Plan Plan 2020 ownership mapping N	6 City Outreach areas that need flood control mitigation and erosion control	N N	-	U	N			-	Y	-	-	-		N	N	N N		each 1200000	\$30,000	2020	N N				Develop Strategy Cost	1
Hazard City of Karnes and Wilson Counties Mitigation Inventory of residences in	Identify residential structures that are located in flood zones or high hazz Oty of Karnes Education and areas and develop plan and implement a program for floodproofing or	ard															Flood	1200001 Studies and 1200001	L.		Karnes County,				Same Study as Above (Need to Calculate Cost); Master Drainage Plan could	
S8 Karnes City Karnes Hazard Mitigation Plan Plan 2020 floodplain N City of Karnes and Wilson Counties Mitigation Inventory of residences in	6 City Outreach acquisition. Identify residential structures that are located in flood zones or high haz are and develop plan and implement a program for floodproofing or	ard N	-	U	N			-	N	-	-	-		Y	С			Studies and 1200001 psis 1200001 1200001 1200001 1200001		2020	HMT, SARA N Karnes County.				encompass this Need to Calculate Cost; Master Drainage Plan could	1
59 Kenedy Karnes Hazard Mitigation Plan Plan 2020 floodplain N	City of Kenedy City of Kenedy City of Kenedy Education and Identify and compile information on flood hazard areas and residential	N	-	U	N		-	-	N	-	-	-		N	с	Y N		rsis 1200001		2020	HMT, SARA N				encompass this	1
City of Karnes and Wilson Counties Mitigation Update flood information and	Outreach; property in flood zones, establish and implement a volunteer acquisition Regulatory and elevation program based on FEMA protocol in association with SARA stur	/ dies,																1200002			Karnes County,				Similar to Study Above; Can be	
60 Kenedy Karnes Hazard Mitigation Plan Plan 2020 policies N City of Karnes and Wilson Counties Mitigation San Antonio River drainage	City of Kenedy Guidance and review permitting process based on the 100-year flood event. Develop ownership and access understanding parcies fronting the San Education and Antonio River and major tributaries to have better agreements and access.	is to																Prevention 1200002 ation and	3100,000	2020	HMT, SARA N Karnes County,				FME or FMS	
63 Kenedy Karnes Hazard Mitigation Plan Plan 2020 ownership mapping N Hollstic Watershed Master Plan	Gity of Kenedy Outreach areas that need flood control mitigation and erosion control	N N	-		N				N					N	c	Y N	Struct	tural Flood	\$30,000	2020	SARA N		•		Develop Strategy Cost	1
City of Wilson, Karnes, and Gollad Watershed 62 Kenedy Karnes Countiles Master Plan 2015 Karnes Hwy at Escondido Creek N	This action will create a program to educate the public about specific	Y Y	-	U	A		-	Y	-	N	N	у	,		с		Infras Proje	structure cts 1200002	\$277,000	2015	SARA N				Need to develop BCA and Calculate Study Cost;	1
Multi- Hazard	mitigation actions for all hazards, including but not limited to participation. NFIP, Wildfire Fuels Reduction, Structural Hardening, developing a newaletter to residents and business owners to educate and inform them.	n of																								
City of La Coste Medina Medina County HMAP Adopted Plan 2020 Public Education & Outreach N Multi-	Education and area hazards and protection and mitigation steps they can take to protect their lives and property, etc	t Y		N	N			-	N	-	-			N		y N		ation and each	-				-			1
City of La Medina County HMAP Adopted Plan 2020 Update/Revise Flood Maps N	This action proposes performing a new drainage analysis for the commu to update/revise Flood Maps to better identify areas subject to this Haza VI City of La Coste Planning last study completed in September 1977.	nity rd;		Y	N		<u> </u>		N					Y	c	<u> </u>	Flood Analy	f Studies and			<u> </u>	<u>. </u>				1
Multi- Hazard City of La Mittigation	This action proposes "wet-proofing" components of the Wastewater Treatment Plant and sever lines to minimize/prevent infiltration of				Ĩ																					
65 Coste Medina Medina County HMAP Adopted Plan 2020 Wet-Proof Wastewater System N City of La Karnes and Wilson Counties Mitigation New Flood Control	Up of La Coste Flood proofing storm/flood waters. Study to determine master drainage plan construction of drainage culve watershed supplied to the construction of proofing construction of c	rts,	-	Y	Y		-	N	-		-	У	,		c	-	Flood	Prevention Studies and	-	-	- - - -				Location of WWTP	1
66 Vernia Wilson Hazard Mitigation Plan Plan 2020 Infrastructure N	City of La Vernia Planning findings.	Y Y	-	Y	N			-	N	-		-		Y	Y		Analy		\$2,500,000	2020	- Public Works Y					1
Hazard	Study to evaluate if further floodproofling needs to be done on wastew treatment plant. This WWTP is particularly susceptible to rain events an needs to be floodproofled, some floodproofling has alteracy been done. If	d																								
City of La Karnes and Wilson Counties Mitigation Additional flood proof at Vernia Wilson Hazard Mitigation Plan Plan 2020 wastewater treatment plant N	Engineering 6 City of La Vernia Project Planning Theatment plant needs to be built outside of the floodplain. More than half the land area in City of La Vernia is within the 100-year	Y	-	Y	Y			N	-	-	-	Y	,		Y		Flood	f Prevention			- Public Works				Location?	1
Hazard	floodplain of Clibolo Creek per the current FEMA Flood Insurance Rate M. US 87 is submerged going North and South out of the city during flood events which means the fire department and EMS are cutoff from the re																									
City of La Karnes and Wilson Counties Mitigation Develop and Implement 68 Vernia Wilson Hazard Mitigation Plan Plan 2020 Stormwater Management Plan N	Watershed the city. Conduct a detailed hydrologic and hydraulic study, and from the City of La Vernia Planning results, develop a flood protection plan for Cibolo Creek.	e Y	-	Y	N				N		-			Y	Y		Flood Analy	f Studies and sis	\$1,500,000	2020	Planning, - Engineering Y					1
Hazard City of La Karnes and Wilson Counties Mittgation Wittgation Plan 2020 Public education and outreach N	Implement public education and outreach programs to educate citizens about mitigation against (flood) hazards, seek partnership with county et Oty of La Vernia Outreach eighboring communities and San Antonio River Authority.	ν,		N	N.				N					N .		Y N		ation and each	\$5,000	2020	Office of Emergency - Management, ISD -					1
City of La Karnes and Wilson Countiles Mittigation	Offer relocation/mitigation incentives to current flood hazard area prop Regulatory and owners; initiate a community program to acquire repetitive ioss structur	erty																			- Management, ISD - Office of Emergency Management,					
70 Vernia Wilson Hazard Mitigation Plan Plan 2020 Repetitive loss properties N	Gidance identified by FEMA.	Y		N	N			-	N	-	-			N		N N	Flood	Prevention	Unknown	2020	- City Manager -				Benefit Criteria Scores were calculated; May be able to use	1
City of La Wilson/ Cibolo Creek Watershed Watershed Yumia Guadalupe Holistic Matter Plan Master Plan 2018 Zuehl Crossing Replacement N	Zuehl Rd. Low water crossing La crossing La crossing Control Control CR 352/Guadalupe CR 440 low water crossing of Cloolo Vernia replacement Creek (Zuehl Crossing) with a bridge.							ν.		,							Struct Infras Projes	tural Flood structure	\$ \$1,400,000	2018	. SARA N				as BCR; Project on Border of City and County	
City of La Wilson/ Cibolo Creek Watershed Watershed	Low water Scuil Crossing, Crossing Replace Wilson CR 347/Guadalupe CR 417 low water crossing of Obolo																Struct	tural Flood structure							Benefit Criteria Scores were calculated; May be able to use as BCR; Project on Border of	
72 Verhal Güddülupe Holistik Master Plan Master Plan 2018 Scull Crossing Replacement N City of Leon Projects for Flood Risk in SARA Antonio Drive Drainage	4 La Vernia Coek (Scull Crossing) with a bridge. Los Reyes Creek Crossing Crossing Coek (Scull Crossing) with a bridge.	Y		U	Y			Υ		Y	Y						Projet Struct	cts 1200003 tural Flood 1200002 structure 1200003	\$ \$2,500,000	2018	SARA N				City and County 1 Need to Develop BCA with	2
73 Valley Bexar Helotes Project List 2016 Improvements N	4 at Antonio Dr Improvements Bridge at Los Reyes Creek and Antonio Dr Regional	Y	-	Y	A			Y	-	U	N				С		Proje	cts 1200003 1200001	\$2,982,000	2016	N				Traffic Counts	1
City of Leon Projects for Flood Risk in SARA Detailed Study of Culebra Creek 74 Valley Bexar Helotes Project List 2016 Trib C N	Culebra Creek Watershed Trib C Studies Detailed H&H study of Culebra Creek Trib C Unramed Trib 3 Regional	Y		Y	N			Y		U	N			Y	Y		Analy	Studies and 1200001 psis 1200001 1200001	\$65,000 L	2016	u					1
City of Leon Projects for Flood Risk in SARA Detailed Study of Unnamed Trib 75 Valley Bexar Helotes Project List 2016 3 to Helotes Creek Trib N	to Helotes Creek Watershed 1 Trib Studies Detailed H&H study of Unnamed Trib 3 to Helotes Creek Trib Starting at	Y		Y	N			Υ		U	N			Y	Y		Analy	Studies and 1200001 psis 1200001	\$40,000	2016	N					1
USACE	Bandera Rd Bridge to Evers The channel will be widened to 50" in front of Raymond Rimkus Park (64 road Infrastructure Evers Road) and then widened more from the park to the bridge.	140 Y		u	U			У		U	N	v	,	Y	с			tural Flood 1200002 structure 1200003 cts 1200003		2018	Y				Need to Calculate Study Cost	1
Hazard Karnes and Wilson Counties Mitigation Mitigate local flooding in 77 Oty of Poth Wilson Hazard Mitigation Plan Plan 2020 identified problem areas N	Regulatory and Identify problem flooding areas and implement a program to reduce localized flooding	N		U	N			N				,	N	Y	с		Flood	1200001 Studies and 1200001 sis 1200001	s, \$5,000	2020	City of Poth, ISD Police, Fire N				MDP	1
Hazard Karnes and Wilson Counties Mitigation Strengthen floodplain 78 City of Poth Wilson Hazard Mitigation Flan Plan 2020 management ordinances N	Regulatory and	N		U	N				N					N	N	y N	Flood	1200002 Prevention 1200002	l, 2 \$25,000	2020	Engineering , Planning N				Ordinance Strategy	1
Hazard Karnes and Wilson Counties Mitigation	City of Poth Guidance Adopt higher floodplain standards for new development Conduct Resulbility study that evaluates the overage area, property Education and Outreach; technology, cost, and other local considerations. Based on study findings																Flood	f Studies and 1200001			City Council,				Identify Emergency Warning System Locations (Could be	
79 Cley of Poth Wilson Hazard Mitigation Plan Plan 2020 Install early warning systems N Hazard Karnes and Wilson Counties Mitigation	City of Poth Infrastructure Install an emergency warning systems citywide Education and Install educational signage such as "Turn around don't drown" at high ris	N	-	U	N		-	-	N	-	-	-		Y	c		Analy	sis 1200001 i Warning	\$100,000	2020	Police N City, Public	-	-		incorporated into an MDP?)	1
80 City of Poth Wilson Haar Mitigation Plan Plan 2020 Education Signage N Hazard Milson Countries Karnes and Wilson Countries Karnes and Wilson Countries Digital signage for	City of Poth City of Poth Education and Education and Coordinate with school district to use sign on US 181 for emergency infe	N.	-	U	N		-	-	N	-	-			N	N	N N	and R	Readiness 1200000	\$5,000	2020	Works N		-			1
81 Otty of Poth Wilson Hazard Mitigation Plan Plan 2020 communication N Hazard Karper and Milron Counties Militarities	City of Poth City of Poth Education and Education and Alert the population through education material, media and other meth	N N	-	U	N			-	N	-	-	-		N	N	N N	and R	Readiness 1200000 ation and	\$5,000	2020	ISD, City N County, Emergency					1
82 City of Poth Wilson Hazard Mitigation Plan Plan 2020 Early warning system education N Hazard	City of Poth Outreach about norolling in the early warning system. Flood Readiness Install automated systems at low-water crossings with high rate of vehic	N	-	U	N		-	-	N	-	-	-		N	N	N N	Outre	each 1200000	\$5,000	2020	mgmt. N Police, Public				May need to identify crossings before installation; if not this	1
83 City of Poth Wilson Hazard Miligation Counties Mitigation Install pipe gates to close off N Hazard Miligation Plan Plan 2020 streets N Hazard Karnes and Wilson Counties Mitigation Orainage Study Marcelinas	Flood Readiness Install automated systems at low-water crossings with high rate of vehicle (City of Poth and Recilience a Recilience and Recilience and Recilience and Recilience and Recilience and Recilience and Recilience (Recilience Anderson and Recilience Cerek has a floodplain that runs through the center of the cit Projects; Install stream gauges and identify alternatives to mitigate flooding.	y. N	-	U	N		-	-	N	-	+			N	N	N N	and R	Warning Readiness 1200000 Warning	\$250,000	2020	Works N				before installation; if not this is a Project 1	1
34 City of Poth Wilson Hazard Mitigation Plan Plan 2020 Creek and its major tributary N Hazard	4 City of Poth Infrastructure Implement study findings. Phase I: Perform a study to evaluate Poth Branch Watershed - Phase II:	N N	-	U	N		-	-	N		-			Y	С	-	and R	Readiness 1200000 1200001	·	2020	Engineering, Planning N		-		Develop Study Cost	1
85 City of Poth Wilson Hazard Mitigation Plan Plan 2020 Build Detention Pond N	Regulatory and Purchase land and construct a drainage infrastructure facility in accordal With the engineering recommendations of the study.	N.E.		U	N		-	-	N		-			Y	с		Analy	Studies and 1200001 psis 1200001		2020	City Council N				Develop Study Cost Calculated Flood Reduction	1
B6 City of Poth Wilson Master Plan Master Plan 2012 Creek Y	Detention basin on East Branch Regional Storage in this area would reduce downstream flooding and remove exis Poth Creek Detention structures from the FEMA floodplain	ting Y		N	Y			Y		N	N		,		с		Infras	tural Flood structure 1200002 cts 1200003		2015	SARA N	,	-	-	Ratio Need to develop BCR; May need to Calculate Study Cost;	1
Damage Center 1 Project2A&2B Wilson County Watershed Watershed — Improved crossing at U.S.	Upgrade Hwy 181 crossing at East Branch Poth Additional Box Culverts to U.S. Highway 281 Crossing/Crossing Replacen	nent															Infras	tural Flood structure 1200002							Calculated Flood Reduction Ratio Need to develop BCR; May need to Calculate Study	
87 City of Poth Wilson Master Plan Master Plan 2012 Highway 181 Y Ulson County Watershed Watershed Cubert Improvements at	r Creek Infrastructure with a 100-foot Bridge Section Menchaca Significant overlopping at one 3' x 5' box culvert. Improving this culvert (CR220) crossing would provide emergency access to the areas of Poth west	Y Y	-	U	U		-	Y	-	N	N				c	-	Infras	cts 1200003 tural Flood structure 1200002		2015	SARA N			*	Cost; May need to Calculate Study	1
88 City of Poth Wilson Master Plan Master Plan 2012 Menchaca Y Damage Center 2- Project 2	at Poth Creek Infrastructure of Poth Creek Mosspoint Street Low water During a large storm event, access to and from residences adjacent to	Y	-	U	U		-	A	-	N	N	- ×		-	c	-	Projes	cts 1200003	\$198,000	2015	SARA N				Cost;	1
89 City of Poth Wilson Master Plan Watershed Master Plan Mosspoint to Sunshine Y	to FM 541 at Sunshine Drive Improvements Compromised	Y	-	U	U			γ		N	N	v	,		с		Flood Analy	Studies and 1200003 sis 1200003 1200000	S, \$130,000	2015	SARA N				May need to Calculate Study Cost;	1
Hazard Study the San Antonio River, Oity of Karnes and Wilson Counties Mitigation Ojo de Agua Creek and its Single Karnes Hazard Mitigation Plan Plan 2020 tributaries N	Regulatory and Guidance; Install steam gauges and develop a study to identify solutions to flooding It of Sunee Implement engineering findings to refuse and milicate risks													,	c		Flood	1200000 1200001 1 Studies and 1200001 1200001	1,	2020	City Council, County, SARA, Public Works N				Gages and MDP; Calculate Study Cost	
90 Runge Karnes Hazard Mitigation Plan Plan 2020 tributaries N	tripe implement engineering findings to reduce and mitigate risks. Education and Identify and compile information on flood hazar areas and residential Outreach; roperty in flood zones, establish and implement a volunteer	,		ľ					-								Johnsy	210000			- MARTIN RESIDENCE DE				Study Cost Need to Calculate Cost;	
City of Karnes and Wilson Counties Mitigation Update flood information and 91 Runge Karnes Hazard Mitigation Plan Plan 2020 policies N	Regulatory and elevation program based on FEMA protocol in association with SARA sture City of Runge Guidance and review permitting process based on the 100-year flood event.	dies,		U	N				Y	U	N			Y	с		Flood	1200002 Prevention 1200002		2020	Karnes County, HMT, SARA N				Master Drainage Plan could encompass this	1
City of Karnes and Wilson Counties Mitigation San Antonio River drainage 92 Runge Karnes Hazard Mitigation Plan Plan 2020 ownership mapping N	Develop owner/bip and access understanding parcels fronting the San Education and Antonio River and major Unituaties to have better agreements and acces 6 City of Runge Outreach areas that need flood control mitigation and erosion control Education and	ss to N		U	N				N					N	N	N N		ation and each 1200000	\$30,000	2020	Karnes County, SARA N				Develop Strategy Cost Similar to Study Above	2
City of Karnes and Wilson Counties Mitigation Inventory of residences in	Education and Outreach; Identify residential structures that are located in flood zones or high haz Regulatory and areas and develop plan and implement a program for floodproofing or	ard															Flood	1200001 Studies and 1200001	ı.		Karnes County,				Similar to Study Above (Master Drainage Plan could encompass or Identify Specific	
93 Runge Karnes Hazard Mitigation Plan Plan 2020 floodolain N	I Lity of Runge Guidance Jacquisition	I IN	I-	In	N N		to lo	I No	I.	I.	1.	l a				IN N	Arraha	ek 1300001	I CEN DOD	12020	I I I I I I I I I I I I I I I I I I I	i.				10 I

SARFP: FIV	IP/FME/FMS Ident	tification Pro	ocess Table			Γ	Step 0	ps defined per Task 48 Process Outlin	e. Refer to Technical Mem	10.				Step 2-1: FMP			Step 2-2: FME		Step 2-3: FMS	Ste	ep 3	Ste	p 4: Project Detail	s/Feasibility		Ster	4-1: Additional Pro	ect Details	Step 5	ĺ	
											RFPG Allows		STRUCTURAL	MONGTER OF THE AN	Sufficient P Detail:	roject s ADDITIO	STUDIES ONAL INFO FMP Will Identify	Has a Planning Level													
General Community ID /Sponsor	County Source Name	Source Type Sour	Phased/ Damage Ar ce Project Title		n Project Type	Project Description Si		Related to Flood Meets Emergen Mitigation/ Need Ianagement Goal (FPR to define	problem with DA >	Reduces 100-year flood risk	Exemption for not meeting; - Problem Area Size	Type of Exemption	Sufficient Data (Y/N)	Sufficient Data (Y/N) No Negati (Y/N)	(BUX, CUSCES	k)	flies Need for Structures, Population, ering Evaluation and Critical Facilities at Risk		Cost Estimate or Flood Reduction (Y/N) (Y/N)	Associated Goal Types	Associated Goal	Project Cost Project	Operations an Maintenance Cost	FMP ONLY Benefit-Cost Ratio	Sponsor Verified	Atlas 14 (Y/N/U)	FMP ONLY Pre-Project	FMP ONLY Post-Project	Public Comment/RFPG Response	Notes	FMP_ID FME_ID FMS_ID
,,,,,,,,,,				_				(Y/N) (Y/N)	(Y/N)	(Y/N)	- Flood Risk Reduction (Y/N)				(Y/N)		(Y/N/D) (Y/N)	of the consider that								If "No" consider	Level of Service	Level of Service			
			(Y/N)	North: John Page Dr South:									If "No" consider FME	If "No" consider FME If "No" con	ider FME If "No" consid	der FME If "No"	Consider FMS D" develop If "No" consider FMS	If "No" consider FMS If "C" calculate cost	If "No" consider FMS* If "No" consider FMS	5*						additional FME for update					
				Seeling Dr./ Placid Dr. at Alazan Crk -																											
				East: St. Cloud - West: Beginning of channel at Donaldson Dr.	5																										
				(between Colleen Dr. & E. Cheryl Dr.),																											
				Seeling Blvd from Lowery Dr to Donaldson																											
		Preliminary		Ave; Placid Dr from Pardo Cir to Oriole Dr; Palm Dr from	Storm drain															Structural Flood											
Gity of San 94 Antonio	Bexar Seeling	Engineering Report 2021	Seeling Drainage Improvements Y	Oriole Ln to E Cheryl Dr. Dellwood Drive and Shadywood	improvements, Infrastructure	Install box culverts, grass lined channel construction	Y		Y	Y			Y	. у	Y	-			-	Infrastructure Projects	12000029, 12000030	\$30,790,000 2021		0.62	City of San Antonio	Y		Reduction in 100 year flooding			1
				Lane to Oblate Drive and Barbara Drive, Dellwood Dr																											
				Dellwood Dr from Springwood Lane to		Upsizing the boxes underneath Deliwood Drive and Oblate Drive, Upsizing the boxes underneath Deliwood Drive, Enlarging the open channel, upsizing the boxes underneath portions of El Montan Avenue, Pinewood Lane and Deliwood Drive. The improvements will also include reconstruction of the														Structural Flood											
City of San Antonio	Bexar Barbara Drive Drainage Stu	CoSA udy Project List 2021	Barbara Drive Drainage Improvements Y	Shadywood Lane, Thames Dr	improvements,	between the first improvements will also include reconstruction to the street and curb for the portion of Dellwood Drive and Oblate Drive within the project boundary	4		Y	Y	-		Y	. Y	Y	-			-	Infrastructure Projects	12000029, 12000030	\$29,362,000 2021	-	0.04	City of San Antonio	Y	Less than the 25 year	Convey the 25 year and reduce the 100 year			1
City of San	Thames Drainage Channel	CoSA	Thames Drainage Channel	Channel from Blanco Rd to Langton Dr	Storm drain	Replace the existing culverts at Blanco Rd., San Pedro Ave, Thames Dr.															12000029, 12000030	\$30,590,000 2016		0.00	City of San			At least the 100 area			.
96 Antonio	Bexar Improvements	Projectist 2016	Replacement - Alt 1 N	Channel from Loop 410 to	improvenens	Private Dr and Dorset.														Projects Structural Flood	12000050	330,330,000 2016		UUS	Antonio	N	Less than the 100 year	At least the 100 year			
Gity of San Antonio	Bexar Rock Creek - Alt 1	CaSA Project List 2016	Rock Creek - Alt 1 N	Olmos Creek (NSM) Symphony Lane	Infrastructure	Reducing the height of the drop structure at the Olmos Creek outfall, Bridge replacements will be required for both the railroad crossing and West Ave.	¥		Y	Y	-		Y	. Y	Y	-			-	Infrastructure Projects Non-Structural	12000029, 12000030	\$15,860,000 2016	-	0.1	City of San Antonio	N	Less than the 100 year	100 year			1
Gity of San Antonio		CoSA Project List 2019		& E Pyron Ave to SE Military	acquisition	Purchase 32 properties located west of the San Antonio River Symphony Reach, and along Pyron Ave and Symphony Lane.	Y	-	¥	У	-			у у	¥	-				Infrastructure Projects Structural Flood	12000025	\$36,730,520 2022	-		City of San Antonio	N				Buyout project.	1
Gity of San 99 Antonio		ct CoSA Project List 2016	Judson and Lookout LWC Improvement N	Judson Intersection Woodburn Rd to	Low water crossing, Infrastructure	Upgrade the low water crossings and the connecting/downstream channel	Y		Y	Y	-		Y	. у	Y	-			-	Infrastructure Projects Structural Flood	12000029, 12000030	\$5,665,138 2016	-	0.9	City of San Antonio	N	Less than 100 year	100 year		Parlant dans and assessment	1
City of San Antonio	Holbrook Road Preliminary Bexar Engineering Report	y Engineering Report 2021	Holbrook Road Improvements N	approximately	n Infrastructure	Offset a portion of the roadway south of Woodburn Rd	Y	-	¥	U	-		Y	. у	Y				-	Infrastructure Projects Non-Structural	12000033	\$16,250,000 2022	-	0.01	City of San Antonio	γ	Less than 100 year	100 year		Project does not remove homes from the floodplain but gives unflooded access	1
City of San 101 Antonio	Bexar Shady Lane Buyout Narrath	CoSA Project List 2019	Shady Lane Dr. Buy-Outs N	Shady Lane Drive	Property e acquisition	This project consist primarily of property buy-outs within the floodplain to mitigate structural flooding to those properties.	Y		Y	Y			-	Y Y	Y					Flood Infrastructure Projects	12000025	\$1,453,880 2022		0.2	City of San Antonio	N				Buyout project.	1
City of San	Leon Creek Watershed Mas	ster Watershed	Huebner Creek/Huebner Creek	Rd and Apple Green Rd.	Regional	Construction of a Regional Storm Water Facility (RSWF, detention basin) on approximately 35 Acres (ROW to be acquired) at confluence of Huebner and														Structural Flood Infrastructure	12000029,				City of San					FRR Calculated may need to develop BCR and Calculate	
102 Antonio City of San	Bexar Plan Phase 3 Cibolo Creek Watershed	Master Plan 2011	Trib. A RSWF (Eckhert RSWF) N Upper Martinez Creek	south of Eckhert	Low water crossing	Tributary to Huebner Creek. With approximately 100 acre-feet of storage Improvements to already channelized section of Martinez Creek (Cibolo	Y	-	U	U	-	-	Y	- У	N	D	- 0		-	Projects Structural Flood Infrastructure	12000030	\$19,401,969 2010	-	-	Antonio	N				study cost Benefit Criteria Scores were	1
103 Antonio City of San	Bexar Holistic Master Plan Medina River Holistic	Master Plan 2018 Watershed	Improvements N D/O Center A (Old Pearsall road	Woodlake Pkwy Old Pearsall Road 410	Infrastructures	Watershed] from Montgomery Dr to Walzem Rd and bridge improvements at Glbbs Sgrawl Road Did Pearsall Rd overtopping at Medio Creek Bridge and backwater conditions created from Rallroad Bridge DS Old Pearsall rd.	Y		U	A			Y	. у	Y	-			-	Projects Flood Studies and	12000029 12000011, 12000013,	\$4,000,000 2018	-		SARA	N				calculated; May be able to use as BCR Need to Develop BCA; and	1 1
104 Antonio City of San	Bexar Watershed Master Plan Medina River Holistic	Master Plan 2015 Watershed	at Medio Creek) N D/O Center M (Oak Island	HWY 1604 East of Somerset	Regional Channe	el Oak Island Drainage Improvements. Culvert upgrades at two locations on	Υ	-	у	Y	-		Y	- N	N	-	Y Y		-	Structural Flood Infrastructure	12000014	\$17,830,000 2015	-		SARA	N				Calculate Study Cost; Need to update with more information; May need to	1
105 Antonio City of San	Bexar Watershed Master Plan	Master Plan 2015	Community) Y Development of a Streamscaping Program for Flood Risk Management in	San Antonio		Oak Island Dr and 1604 with channel work: Incresse the number of public outreach and education activities to improve awareness of flood hazards and benefits of flood planning in the Flood Planning Region. Promote nature-based solution training to enable greater	,		U	*			Y		N		,			Projects Education and	12000030	53,889,346 2015			SAKA	N				Calculate Study Cost;	1
106 Antonio		Wish List 2022	Texas N Culebra Creek NWWC with Culebra Road Bridge	River Basin Just upstream of	Outreach f Bridge	participation in flood risk/mitigation decisions.	Α		N	N	-		N			N			Y Y	Outreach Structural Flood	12000001	\$129,000 2022	-		SARA	N				(\$129,000) Proposed Budget FRR Calculated (0.22); Need to	1
City of San 107 Antonio	Leon Creek Watershed Mas Bexar Plan Phase 3	2011	Improvements (Damage Center 4) N	Old Grissom Road Located along Culebra Creek	Improvements; Infrastructure	A basic trapezoidal channel with side slopes of 3:1 along with upgrades on the Culebra Road Bridge.	Y	-	U	A	-		У	- N	N	D	- 0	2	-	Infrastructure Projects	12000029	\$23,700,000 2010	-	-	CoSA	N				calculated BCR. May need to calculate study cost	1
City of San	Leon Creek Watershed Mas	ster	Culebra Creek Tributary A at Tezel Road Enhanced	Tributary A between Dover Ridge and Tezel	Regional Channe	el Increasing the flow area by widening the channel and increasing its side														Structural Flood Infrastructure										FRR Calculated (0.1); Need to calculate BCR; May need to	
108 Antonio City of San Antonio	Leon Creek Watershed Mas	2011 ster 2011	French Creek at Guilbeau Road NWWC Y	Downstream of	Improvements	A basic trapezoidal channel with side slopes of 3:1, representing an earthen channel	Y		U	Y	-		Y	- N	N N		У (:		Structural Flood Infrastructure Projects	12000029	\$9,310,000 2018			CoSA	N N				calculate study cost FRR Calculated (0.12); Need to develop BCR; May need to calculate study cost	1
City of San 110 Antonio	Leon Creek Watershed Mas	ster 2011	French Creek RSWF Y	Upstream of Loop 1604 on French Creek	Infrastructure	An on-channel RSWF provides approximately 150 acre-feet of storage	Y		U	Y	-		γ	- N	N		У	5	-	Structural Flood Infrastructure Projects Structural Flood	12000029	\$18,246,000 2018	-		CoSA	N				FRR Calculated (0.09); Need to develop BCR; May need to calculate study cost FRR Calculated (-0.46);	1
City of San Antonio		2011	Helotes Creek at Bandera Road Enhanced Conveyance N	Bandera Road West of Texas	Improvements	el Channel modifications were designed as a basic trapezoidal channel with side slopes of 3:1	Y	-	U	N			Y	. N	N	D	- 0			Infrastructure Projects Structural Flood	12000029	\$2,416,000 2018		-	CoSA	N				Need to develop BCR; May need to calculate study cost FRR Calculated (1.71);	1
City of San Antonio City of San	Bexar Plan Phase 3	2011	Helotes Creek RSWF N Leon Creek at Grissom Road	Highway 16 and Loop 1604N North of	Infrastructure	An off-channel RSWF provides approximately 3330 acres-ft oof storage. el A combination of selective clearing and Channel modifications were	Y	-	U	Y			У	- У	N	-	Y C			Infrastructure Projects Structural Flood Infrastructure	12000029	\$8,493,000 2018	-		CoSA	N				Need to develop BCR; May need to calculate study cost FRR Calculated (0.17); Need to develop BCR; May	1
113 Antonio		2011	Enhanced Conveyance N Leon Creek NWWC with Ingram		Improvements	designed as a basic trapezoidal channel with side slopes of 3:1 A basic trapezoidal channel with side slopes of 3:1, representing	Y		U	Y		-	У	. у	N	D	- 0			Projects	12000029	\$20,200,000 2010	-	-	CoSA	N	•		-	need to calculate study cost	1
City of San Antonio		ster 2011	Road Bridge Improvements (LC- 8) and Huebner Creek Flood Protection Barrier (LC-17) N	upstream of Ingram Road Along Leon		an earthen channel. This project includes proposed upgrades to Ingram Road el and a proposed Flood Protection Barrier between Ingram Road and Culebra Road	Y	-	U	Y	-	-	У	. у	N	D	- 0		-	Structural Flood Infrastructure Projects Structural Flood	12000029	\$27,700,000 2010			CoSA	N				FRR Calculated (0.19); Need to develop BCR; May need to calculate study cost	1
City of San Antonio	Leon Creek Watershed Mas Bexar Plan Phase 3	ster 2011	Quarry at the Rim RSWF N	Creek and	Infrastructure	Off Channel RSWF	Y	-	U	U	-		Y	. U	N	-	У	:	-	Infrastructure Projects	12000029	\$2,800,000 2010			CoSA	N					1
City of San	Leon Creek Watershed Mas Bexar Plan Phase 3	ster 2011	Leon Creek at IH-10 NWWC N	Downstream IH	Regional Channe Improvements	Channel modifications were designed as a basic trapezoidal channel with side slopes of 3-1, representing an earthen channel. Throughout the NWWC el modifications, the left overhank was held to its existing location with all excavation extending to the parcel limits within the right overbank	Υ.		U	Y		_	Y	. 0	N		Y			Structural Flood Infrastructure Projects	12000029	\$37.500.000			CoSA	N					1
																														FRR Calculated May need to Develop BCR and calculate study cost. May need to re-	
City of San 117 Antonio	Salado Creek Watershed Bexar Master Plan Report-Phase :		Damage Center 3-Lorence Creek N		Regional Channe	Approximately 10,000 feet of channel improvement. The proposed drainage el improvements reduces the occurrence of structural flooding in several areas along the banks of the creek.	у	-	Y	Y			Υ	. Y	N	D	-			Structural Flood Infrastructure Projects	12000029	\$7,040,000 2011			CoSA	N				assess the need and regroup on the approach due to community members LOMR Fees includes in Cost	1
			Damage Center S. Salado Comb	Extends from Classen Road to the north to		el Approximately 4,487 feet of channel improvements as well as constructing														Structural Flood										FRR Calculated May need to Develop BCR and calculate study cost LOMR Fees	
118 Antonio	Salado Creek Watershed Bexar Master Plan Report-Phase	1 Report 2011	Trib F N	Oaks Drive Downstream of Windway Drive;	Improvements	two infiline reservoirs. A proposed combination of regional detention and channel improvement to reduce flooding on Walzem Creek. Conveyance improvements were used to	Y		Y	Y	-		Y	. у	N	D	- (:		Projects	12000029	\$20,860,000 2011	-	-	CoSA	N		я		included in cost FRR Calculated May need to	1
City of San Antonio	Salado Creek Watershed Bexar Master Plan Report-Phase	Master Plan 1 Report 2011	DC13/14: Walzern Creek N	between Judivar and Walzem Road On the east side	Regional	reduce peak flood stages downstream of Windway Drive and upstream of Judivan, while offline detention was used to offset any downstream peak flow rates	Y		Y	Y			Y	. ү	N	D	- 0	:	-	Structural Flood Infrastructure Projects	12000029	\$5,438,000 2011		-	CoSA	N				Develop BCR and calculate study cost LOMR Fees included in cost	1
				of San Antonio upstream of Gibbs Sprawl																											
City of San 120 Antonio	Salado Creek Watershed Bexar Master Plan Report-Phase :		DC17: Rittiman Creek N	Road and just north Lou Kardon Memorial Park	Low water crossing	Improvement to the railroad crossing that will reduce the existing structure's head loss. Also recommended is additional floodplain storage, in the form of inline detention that will help to also mitigate any downstream peak flow impacts; created by the railroad crossine improvements.			*	v			v		N	D.				Structural Flood Infrastructure Projects	12000029	\$3.333.000 2011			CoSA	N				FRR Calculated May need to Develop BCR and calculate study cost LOMR Fees included in cost	,
City of San	Salado Creek Watershed Bexar Master Plan Report-Phase	Master Plan		Along martin Luther King Dr and IH 10	Regional Channe Improvements	impacts created by the railroad crossing improvements Improvement on IH 10 culvert crossing to reduce peak flood stages upstream of IH 10 channel improvements downstream of IH 10 to prevent peak flood stage increase	Y		Y	Y	-		γ	. U	N	D	- 0	5	-	Projects Structural Flood Infrastructure Projects	12000029	\$15,368,000 2011	-		CoSA	N					1
City of San	Salado Creek Watershed		DC20: Rosillo Creek Unnamed	Along Diane Road between WW White Road	Low water d Crossing															Structural Flood Infrastructure											
122 Antonio			Tributary 1 N	and Loop 410 Rigsby Avenue and E.	Improvements	Upgrade Diane Road and construct drainage improvements	Y	-	Y	N	-	-	Y	- U	N		Y	N	-	Projects	12000033			-	CoSA	N		-	-		1
				Southcross Boulevard on the north and south Pecan		Will consist of raising Roland Ave above the 1% chance rainfall events'																									
City of San	Salado Creek Watershed Bexar Master Plan Report-Phase :	Master Plan	DC26: Salado Creek, Downstream of IH 10 N	Valley Drive and S WW White Road on its west and east sides	t	water surface elevation crossing over Salado Creek. Roland Rd will be realigned to improve the sharp curves in this area. This project ties into the South Salado Creek							v		_			v.		Structural Flood Infrastructure Projects	120000730				CoSA	N					
123 Antonio	Phil Reput-Phase	_ mepors 2011	THE STATE OF THE S	Bound by Interstate 10 to		Greenway Project				Ĭ					×					Topica	2000047					-					*
				Jackson Road to the west, West Avenue to the	Regional Channe	el The downstream culvert system creates a backwater which will																									
City of San 124 Antonio	UPPER SAN ANTONIO RIVEI Bexar MASTER PLAN	R Master Plan Report 2013	Damage Center 2- Martinez Creek N	east, and	Improvements o and Property	continue to affect properties near the inlet of that structure. Improved channelization and culvert/bridge replacement and voluntary property acquisition	Y	-	Y	Y			Y	. U	N		Y (:		Structural Flood Infrastructure Projects	12000029	\$24,061,300 2018			CoSA	N				Need to Calculate Study Cost	1
				Upstream of Garza Park to approximately 780 feet		A channelization option was considered only for the area upstream of the pedestrian bridge, adjacent to Garza Park.														Structural Flood											
City of San 125 Antonio	UPPER SAN ANTONIO RIVEI Bexar MASTER PLAN	R Master Plan Report 2013	Damage Center 3- Zarzamora Creek N	downstream of	Regional Channe	el The proposed earthen channel would begin upstream of the pedestrian bridge and end approximately 780 feet downstream of Ingram Road	Y		U	Y			Y	. U	N		Y			Infrastructure Projects	12000029	\$11,240,000 2018		-	CoSA	N				Need to Calculate Study Cost	1

SARFP: FMP/FME/FMS Identification Process Table			*Steps defined per Ta	ask 48 Process Outline. Refe	er to Technical Memo.			Ste	p 2-1: FMP		Step 2-2: FM	E	Step 2-3: FMS	Step	3	Step	o 4: Project Details,	Feasibility		Step 4-1: Additional	Project Details	Step 5	7	
						RFPG Allows Exemption for not		STRUCTURAL NONSTRUCTUR	AL No Negative Effect	Sufficient Project Details	ADDITIONAL INFO FMP Will Identify	Has a Planning Level		tisk				FMP ONLY	Atlas 14					
General Community D //gonore Source Name Source Type Date Project Title	Project Location Project	:Type Project Description	Screening: Already completed? Related to Flood Mitigation/ Management Goal	(FPR to define)	Addresses flood problem with DA > 1 flood risk flood risk (Y/N)	meeting;	Type of Exemption	Sufficient Data Sufficient Dat (Y/N) (Y/N)	2 (Y/N)	s at Risk)	Engineering Evaluation and Critical Faciliti at Risk		Cost Estimate or Flood Reduction (Y/N) (Y/N)	Associated Goal Types	Associated Goal IDs	roject Cost Project Co	Operations and Maintenance Cost		nsor Verified (Y/N/U)	FMP ONLY	FMP ONLY Post-Project Level of Service	Public Comment/RFPG Response	Notes	FMP_ID FME_ID FMS_ID
(7/2)	-		(Y/N)	(Y/N)	(Y/N) (Y/N)	(Y/N)	er.	"No" consider FME If "No" consider	FME If "No" consider FME	(Y/N) IE If "No" consider FME	(Y/N) If "No" consider FMS If "No" consider FI	AS If "No" consider FMS If "C" calculate cost	If "No" consider FMS* If "No" consider FN	MS*					If "No" cons additional FM	ider IE for	LEVEL OF JET VICE			
City of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 4- Agache	West Woodlawn Avenue and	Majority of the flooding is caused by the undersized culverts downstream of West Woodlawn, providing addition of box culverts will provide adequate	6											Structural Flood Infrastructure					update					
126 Antonio Besar MASTER PLAN Report 2013 Creek N	northwest 36th Infrastruct IH-10 near Fresno Drive and exit back under	ture capacity to the existing storm drain system	Å	-	U Y		¥	-	U	N	- ¥	C		Projects 1 Non-Structural	12000029 \$11;	660,000 2013	-	- CoSA	N N	-	-		Need to Calculate Study Cost	1
Chy of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 6- Martinez Report 2013 Creek N	IH-10 near West Summit Property Avenue acquisition Commerce	n funding scenarios	¥	-	U Y		-	Y	Y	N	ь .	с		Flood Infrastructure Projects 1 Non-Structural	12000025 \$31,	453,300 2013		- CoSA	. N	-	-			1
City of San LIPPER SAN ANTONIO RIVER Master Plan Damage Center 7- Zarzamora Report 2013 Creek N	Street and North General Property McMullen acquisition Downstream of	Based on the value of the homes within this damage center, VPAs appear to be a practical option that may be well received	Y		у у		-	Y	Y	N	D .	с		Flood Infrastructure Projects 1	12000025 \$11,	425,000 2013		- CoSA	. N					1
	General McMullen near Rosedale Park to downstream of													Structural and Non-structural										
City of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 8 - Apache 129 Actionio Besar MASTER PLAN RESORT 2013 Creek N	Chihuahua Regional C	Channel Flooding associated with Apache Creek and Zarzamora Creek. Improved channelization on Zarzamora creek and dredging of Elmendorf lake.	Y	-	U Y	-	Y	-	У	N		с	-	Infrastructure Projects 1 Structural and Non-structural	12000029 \$6,0	139,000 2018	-	- CoS4						1
City of San UPPER SAN ANTONIO RIVER Master Plan 130 Antonio Besar MASTER PLAN RECONDER RECONDUCTION RECORD TO SERVICE NO. MASTER PLAN RECONDUCTION RECORD TO SERVICE NO. MASTER PLAN RECONDUCTION RECORD TO SERVICE NO. MASTER PLAN RECORD TO SERVIC	Comal and San Marcos Regional C	Channel severe flooding upstream of South Colorado Street, where the majority sents of the buildings flood during the 10&50 yr. Channel improvements	¥		у у		Y		Y	N	D -	с		Flood Infrastructure Projects 1	12000029 \$63,	.081,000 2018		- CoSA	. N					1
City of San UPPER SAN ANTONIO RIVER Master Plan 1311 Antonio Benar MASTER PLAN Report 2021 Damage Center 14- Airport Trib IN	north side and US 281 on the east and south Property side Property		¥	-	U Y		_	Y	Y	N	D .	с		Non-structural Flood Infrastructure Projects 1	12000025 \$30,	.290,000 2021		- CoSA	. U		-	-	Need to Calculate Study Cost; FRR provide need BCR	1
		Laredo Street, which is a heavily trafficked road providing access to IH-10. A lateral detention project is recommended												Structural and										
Only of San	From San Pedro Detention; Creek to North drain Laredo Street. Improvem	to reduce the Camaron Street spill which will also provide some minor relief to the storm sewer surcharges at West Elmira Street, Cadwallader Street, Marshall Street, and Hill sents Street	¥		N Y		¥		Y	N	ь .	с		Non-structural Flood Infrastructure Projects 1	12000029 \$12,	454,000 2021		- CoSA	. Y				Need to Calculate Study Cost; FRR provide need BCR	1
	Road to the north, Interstate 10 to the east, Culebra Road to	A significant number of houses within this damage center flood during the 10% AC storm event. Lateral detention is a viable alternative for this	8											Structural and										
City of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 20-Matinez 133 Actionio Benez MASTER PLAN BROTT 2013 Creek N	the south, and North Calaveras Detention, Street to the Regional C	project and could be used in conjunction with VPA, and reduced channelization, to meet the desired outcomes	A						v	N N	- Y	c		Non-structural Flood Infrastructure Projects	12000029 \$63	987 000 2018		- CoS4	. N					
	The project area is from Broadway Street at Burr Road																							
Chy of San UPPER SAN ANTONIO RIVER Muster Plan Braunfels, Austin Hwy,	north to New Braunfels Avenue at Nottingham Storm Dra	Reduce regional flooding and remove secure safe passage during 100 yr. event. Utilizes a combined regional and local trunkline of 4'x4' and new												Structural and Non-structural Flood Infrastructure										
134 Aetonio Besar MASTER PLAN Report 2013 Broadway Drain N	Antonio River Updates;	outfall near Patterson Avenue. there are residential lots that abut the top of bank of the creek, the floodlajin limits of the effective DFIRM model are incorrect based on the DFIRM hydrology if the	A	-	Y Y		Y	-	Y	N	D -	c	-	Projects 1 Structural and Non-structural	12000029 \$53,	405,000 2018	-	- CoSA	N.					1
Chy of San Lipper SAN ANTONIO RIVER Master Plan Damage Center 31-Rockwood N Report 2013 Creek N	and east of Hydraulic US37 Modeling Vickers Avenue	significantly less than the DFIRM flows	is				¥				- ¥	N		Flood Infrastructure Projects 1	12000029 -	_	-	- CoSA	U				Need to Calculate Study Cost;	1
Only of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 32-Six Mile NASTER PLAN Report 2013 Creek N	on the north side and by I-35 on south side From Hot Wells Studies	d Normoyle Ditch, it is recommended that the required drainage structures be reanalyzed. The culvert system under IH-37 and Hillje Street is severely undersized,	Y		γ γ		Y		U	N	- У	с		Flood Studies and 1 Analysis 1 Structural and Non-structural	12000013, 12000014 \$15,	630,700 2013		- CoSA	U				Need to Calculate Study Cost;	1
City of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 34-State 137 Antonio Besar MASTER RAN Roport 2013 Hospital Creek N	Blvd across IH- 37 to sally gay Regional C	causing water to pond and overtop the median concrete barriers both the detention basin and the channelization project will have to be constructed to remove all structures from the 1% annual chance storm event floodplain. There are a total of 19 lots in the 100-year floodplain with flood	Y		у у		¥	-	U	N	- У	с		Flood Infrastructure Projects 1	12000029 \$5,7	16,000 2018		- CoSA	. N		-		Need to Calculate Study Cost;	1
City of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 37-Olmos	north of Loop 410 in the Castle Property	depths that range from 0.03 to 3.25 feet. Eight of the lots have 100- year flood depths greater than 2 feet. The lots have the potential to be converted into trails, a park, community gardens, or Low Impact	>											Non-structural Flood Infrastructure										
138 Actonio Beuar MASTER PLAN Report 2013 Creek Middle Reach N	Hills area acquisition Jackson Keller Road and West Avenue just		Å	-	U Y		-	Y	Y	N	- ¥	С		Projects 1	12000025 \$3,5	26,800 2013	-	- CoSA	N N		-		Need to Calculate Study Cost;	1
Chy of San UPPER SAN ANTONIO RIVER Muster Plan Creek Lower Reach Near	downstream of the confluence Elevation of of Rock Individual Creek and Structures	the depth of flooding ranges between 0.10 and 0.15 feet. Flood depths												Structural and Non-structural Flood Infrastructure										
139 Antonio Besar MASTER PLAN Report 2013 Montview N	Olmos Creek Floodproo Jackson Keller Road and	Antonian High School is just downstream of this	A	-	U Y		-	Y	Y	N	- Y	c	-	Projects 1	12000029 \$407	7,544 2013	*	- CoSA	N N	-	-		Need to Calculate Study Cost;	1
City of San UPPER SAN ANTONIO RIVER Master Plan Creek and Olimos Creek Est		100-year storm event. Flood-proofing appears to be a practical approach for these properties. Flood-proofing/Elevating structures appears to be a	r											Structural and Non-structural Flood Infrastructure										
1460 Antonio Bener MASYER FLAN Report 2013 Channel N Chyor San UPPER SAN ANYTONIO RIVER Master Plan Damage Center 40-San Antonio	Bound on the east side by S. Presa St and downstream of Property	pfing practical approach for these properties Three lots have 100-year flood depths greater than 2 feet and were therefore not considered for flood-proofing. Due to its location between parks, it appears reasonable to be buyout the flooded properties and	*		U Y			¥	ľ	N.	· ¥			Non-structural Flood Infrastructure	12000029 5390	0,530 2013		- Coss	N N				Need to Calculate Study Cost;	
161 Aetonio Besar MASTER PLAN Report 2013 River OS Reach near Roosevelt N	Mission Road. acquisition This damage center is between	n continue the park area along the river	Å	-	U Y		-	Y	Y	N	- ¥	С		Projects 1	12000025 \$11,	963,300 2018	-	- CoSA	N				Need to Calculate Study Cost;	1
Chy of San UPPER SAN ANTONIO RIVER Muster Plan Creek Middle Reach near	DeZavala Road and Huebner Road to the east side of Lockhill- Property	The depth of flooding for the 100-year event ranges between 0.10 and 3.82	2											Non-structural Flood Infrastructure										
142 Antonio Besar MAGTER PLAN Report 2013 DeZavala N	Selma Road acquisition S. Blue Wing Road on the south and Southton Road	n feet, therefore, buyouts do not appear to be a practical solution This area consists of large agricultural lots. Buyouts appear to be the best option since the entire damage center is in the floodolain. The area can be converted to a	e Y	-	U Y		-	Y	Y	N	- ү	c		Non-structural	12000025 5633	3,500 2013	*	- Cosa	. N				Need to Calculate Study Cost;	
City of San UPPER SAN ANTONIO RIVER Master Plan Damage Center 44-San Antonio 143 Actionio Beuar MASTER PLAN Report 2013 Were Near Center Road N	on the north Property east acquisition	recreational water park area or pavilions to encourage biking and	¥	-	U Y		-	Y	Y	N	- У	c		Infrastructure Projects 1 Structural and Non-structural	12000025 \$4,9	183,650 2013		- CoSA	N N		-		Need to Calculate Study Cost;	1
Ony of San 144 Antonio Besar Project Summany Sheet Quadsheet - Mahncke Park Quifall N	Watershee Broadway at Studies; Funston Infrastruct	backwater conditions. This project proposes drainage improvement to ture watershed SAA. To reduce clogging and increase efficiency.	Y	-	U U		A		U	N	- У	Y		Flood Infrastructure Projects 1 Structural and	12000029 \$25,	.000 -		- CoSA	. N				Need to Calculate Study Cost;	1
City of San Antonio Benar Project Summary Sheet Quadsheet 2020 Balcone Rd. N	Spencer lane Infrastruct	During a rain storm event, storm water runoff from the East Woodlawn Ditch overtops the road. This project proposes the construction of a culvert crossing to include an associated energy dissipation system, headwall, and outfall structures.	th Y		U		Y		U	N	- У	Y		Non-structural Flood Infrastructure Projects 1 Structural and	12000029 \$35,	.000		- City	of San nio TCI U				Need to Calculate Study Cost;	1
City of San LIWC #34 Sleepy Hollow @	Low water Sleepy Hollow @ Crossing	r This project requires the placement culverts or a bridge to eliminate a low								_		,		Non-structural Flood Infrastructure 1	12000029,				of San					
146 Antonio Benar Project Symmany Sheet Quadsheet 2022 Sorburst N	From Scenic Intersection to 400' South on Vance Jackson;	and the man as a squared.			- 0		ľ							Projects 1				Anto	nio TCI U				Need to Calculate Study Cost;	
City of San LWG41 Vance Jackson 200ft	200' channel upstream and downstream Low Wate	er Low Water Crossing needs Bridge/Culvert Improvements with possible Bridge advanced warning signals. Associated street reconstruction to include curbs,												Structural and Non-structural Flood Infrastructure 1	12000029,			CoS# Worl	Public is					
147 Antonio Benar Project Summary Sheet Guadaheet 2010 south of Scenic N	Jackson Improvem Bounded by Northwest 26th Street, West	sidewalks, and driveway approaches be incorporated into the project. The Elmendorf Lake Dam area is prone to flooding and will require an	Y	-	U U	-	Y		U	N	- ¥	У		Projects 1	12000033 \$35,	.000	-		rtment N		-		Need to Calculate Study Cost;	1
248 Antonio Berar Project Summary Sheet Quadsheet 2019 Like Dam N	Commerce and Regional Southwest 19th Watershee Studies	extensive drainage project to mitigate the floodplain. A Preliminary d Engineering Report (PER) will need to be provided to assess a feasible solution This project requires the replacement of existing low water crossing on	Y		U U	-	¥		U	N	- Y	У		Flood Studies and Analysis 1	12000013 \$350	0,000		- City of Anto	of San nio TCI U		-		Need to Calculate Study Cost;	1
City of San	Low Wate Danville and Crossings;	Bridge approaches, curbs, and sidewalks as required. Requires downstream			_									Structural and Non-structural Flood Infrastructure 1	12000029,								Number C. C. C. C.	
249 Antoreo Bruar Project Summary Sheet Quadrheet Doerbrook N Only of San UWCR158 1 - Hancy Carole	Low Wate	improvements Low Water Crossing needs Bridge/Culvert improvements[10 - 8x5 MBC] with Bridge possible advanced warning signals. Associated street reconstruction to	th Y		U U		A	-	U	N .	- Y	T .		Structural and Non-structural Flood	12000033 \$50, 12000029,	Jud	-	- -	N	*	*		Need to Calculate Study Cost;	1
City of San Project Summary Sheet Quaduheet Way, E of Bobby Allen N	Bobbie Allen Improvem	Bridge possible advanced warning signals. Associated street reconstruction to include curbs and pawerent be incorporated into the project. This project will install a cross arm/barricade at the LWC. Construction of a bridge or culvert installation was considered at this location however, both options were	A	-	U	-	A	-	U	N	- Y	¥	-	Infrastructure 1 Projects 1 Structural and Non-structural Flood	12000029, 12000033 \$35,	.000	-		N		-		Need to Calculate Study Cost;	1
City of San New Sulphus Springs – East of Ne Actionic Benar Project Summary Sheet Quadsheet 2019 4cd Rd New Sulphus Springs – East of Ne	New Sulphur Crossings; Springs Rd - Improvem	Bridge deemed to not be cost effective given the location and the amount of traffic traversing the area.	Y		U		¥		U	N	- Y	Y		Infrastructure 1 Projects 1 Structural and Non-structural	12000029, 12000033 \$35,	.000			of San nio TCI U		-		Need to Calculate Study Cost;	1
City of San 152 Antonio Bevar Project Summary Sheet Quaddheet 2019 Gardner & Cardner & Cardner & Cardner & Cardner & Cardner & Cardner & No	Springs Rd 1- Bridge mile East of S. Improvem	The proposed project will replace the existing culvert system with a bridge approximately 1500' in length. The proposed bridge will span two streams at ture this location	at A	-	U		A	-	U	N	- У	У	-	Flood Infrastructure Projects 1 Structural and	12000029 \$35,	,000		- City	of San nio TCI U		-		Need to Calculate Study Cost;	1
Chy of San Chy of San Antonio Benar Project Summary Sheet Quadobeet 2019 Min East of Beck Nd N	Approximately 240 LF east of Beck Rd. Infrastruct	The proposed project will install 4-10' x 9' MBC at the LWC and reconstruct the portion of New Sulphur Springs Rd. affected by the culvert installation. The proposed street reconstruction will not include sidewalks or curbs.	A		U		Y		U	N	- У	Y		Non-structural Flood Infrastructure Projects 1 Structural and	12000029 \$35,	.000		- City	of San nio TCI U		*		Need to Calculate Study Cost;	1
City of San	Southton Rd 0.5 mile West of	The proposed project will replace the existing culvert system with a bridge										,		Structural and Non-structural Flood Infrastructure	12000030			City	of San				Need to Colondate Co.	
The state of the s		ture approximately 1500' in length.					- 1	r			P.		. г	program 1	[355]			Lento	P				Need to Calculate Study Cost;	

SARFP: FM	P/FME/FMS Ident	tification Pro	ocess Table				Step 0	eps defined per Task 48 Process Ou	tline. Refer to Technical Me	10.				Step 2-1: FM	1P		Step 2-2: FME	:	Step 2-3: FMS	St	ер 3	Step 4: Project Details,	Feasibility	Ste	ep 4-1: Additional Pro	ject Details	Step 5	7	
											RFPG Allows		STELLETTI ID AL	NONSTRUCTURAL No. N		Sufficient Project Details	STUDIES DDITIONAL INFO FMP Will Identify	User a Disposion Local	Has a Planning Level Estimated Flood Ris	rk.									
General Community	County Source Name	Source Type Source	Phased/ Damage Are	na Project Location	n Project Type	Project Description	Screening: Already	Related to Flood Meets Emer Mitigation/ Need fanagement Goal (FPR to de	gency Addresses floo problem with DA ine) mi^2	Reduces 100-year flood risk		Type of	STRUCTURAL Sufficient Data (Y/N)	Sufficient Data	(Y/N) St	(BCA, Cost Estimate, Struc/Pop/Crit.Facilitie E s at Risk)	Identifies Need for ngineering Evaluation and Critical Facilities art Risk	Cost Estimate (Y/N/C)	Cost Estimate or Flood Reduction (Y/N) (Y/N)	Associated Goal	Associated Goal	Project Cost Project Cost Date Operations and Maintenance	FMP ONLY Benefit-Cost Sponsor Ve	Atlas 14 (Y/N/U)	FMP ONLY	FMP ONLY	Public Comment/RFPG	Notes	FMP_ID FME_ID FMS_ID
ID /Sponsor		Date		_			completed?	(Y/N) (Y/N)		(Y/N)	Problem Area Size Flood Risk Reduction (Y/N)	Exemption				(Y/N)	(Y/N/D) (Y/N)			Types	IDs	Cost	Ratio	25000	Pre-Project Level of Service	Post-Project Level of Service	Response		
			(Y/N)								(1717)		If "No" consider FME	If "No" consider FME If "No"	* consider FME I	If "No" consider FME	If "No" consider FMS If "D" develop If "No" consider FMS	If "No" consider FMS If "C" calculate cost	If "No" consider FMS* If "No" consider FM	Structural and				If "No" consider additional FME for update					
City of San				Approximately 800 FT Southwest of	Storm Drain	Since approximately 2006, residents have complained about flooding within a low point on West Ave. Approximately 173 acres drains through this area. This project will construct an underground drainage system with an ea														Non-structural Flood Infrastructure			CoSA Public Works						
155 Antonio I	Bexar Project Summary Sheet	Quadsheet 2022	LWC #13 West Ave. @ Interpark N	Interpark Between		channel to convey the storm water downstream. Low Water Crossing #15 has approximately 128 acres of storm water that is consumed through this concern. This populate proposes to construct an	Y		U	U			Y	- U	N		A	Y		Projects Structural and Non-structural Flood	12000029	\$35,000	- Departmen	U				Need to Calculate Study Cost;	1
City of San 156 Antonio I	Bexar Project Summary Sheet	Quadsheet 2019	LWC #15 Copperhill Between Parkstone & Happy Hollow N	Parkstone &	Storm Drain Improvement	conveyed through this crossing. This project proposes to construct an underground drainage system to assist in the conveyance of runoff crossing through this section of the street.	Y	-	U	U	-		Y	. U	N		Ą	Y		Infrastructure Projects	12000029	\$35,000	City of San Antonio TC	U				Need to Calculate Study Cost;	1
City of San			LWC 100, Blakeley Area	Blakeley Drive - 200' West of	Regional Channe	This option consists of upsizing the Blakeley crossing to (3) 6'x3' RCB and providing a 7' bottom width concrete trap channel with 3:1 side slopes														Structural and Non-structural Flood Infrastructure			CoSA Public Works						
157 Antonio I	Bexar Project Summary Sheet	Quadsneet 2022	Drainage Improvement N	Vandiver	Improvements Bridge	upstream of the crossing. Construct a bridge on Weidner Rd. to pass a 100 yr. storm to replace LWC#							Y		N		Y	Y		Projects Structural and Non-structural Flood	12000029	\$25,000	- Departmen					Need to Calculate Study Cost;	1
City of San 158 Antonio I	Bexar Project Summary Sheet	Quadsheet 2019	LWC# 91 Weldner 500 ft N of Schertz N	Weidner Rd	Improvements; Infrastructure	91, to include curbs and sidewalks. This project will require channel excavation. This LWC is not within a FEMA floodplain.	Y		U	U	-		у	. U	N		У	у	-	Infrastructure Projects Structural and	12000029, 12000033	\$25,000	- City of San Antonio TCI	U				Need to Calculate Study Cost;	1
City of San 159 Antonio I	Bours.		Havenbrook RSWF (Slick Ranch	Havenbrook to State Hwy 151	Infrastructura	This on-channel RSWF site is located southeast of Texas State Highway 151 and Loop 410 West. The proposed RSWF would have a storage capacity of approximately 210 acre-feet with minimum and maximum elevations at 732 feet and 743 feet, respectively.							v				_	v		Non-structural Flood Infrastructure	12000029	C20 000						Need to Calculate Study Cost;	
133 ///////	Market 1		Caroling 14	Drainage Channel - U.S. Hwy. 90W	minut Scare	The since And their, respectively.											ŕ			riojica	11000017	32000						Weed to Calculate Study Cost,	
				access road to Martinique Dr.; Martinique Dr	-	This project proposes to upgrade LWC 115 & 116 and construct an underground storm system on Military to tie into the existing earthen channel. The underground system will consist of 10° curb inlets, 6'x3' box														Structural and Non-structural									
City of San Antonio I	Bexar Project Summary Sheet	Quadsheet 2021	LWC No 113-116 and Associated Channel Improvements N	Westward Dr. LWC 112.1/Pvt	Storm Drain Improvements	channel. The underground system will consist or 10° curb inlets, 6 x 5° box culverts, 24°-42° Reinforced Concrete Pipes (RCP), 5 x 5' junction boxes and outfall structures	Y		U	U	-		Y	. U	N	v .	Y	Y	-	Infrastructure Projects	12000029	\$35,000	- City of San Antonio TC	U				Need to Calculate Study Cost;	1
				Rd 150' South of Meadow Leaf LWC	f															Structural and									
City of San	Desirat Common Chart	0	LWC 112.1 Pvt Rd. 300' North	112.2/Meadow Way - 200' South of	Regional Channel	Project consists of channel improvements and an outfall to Slick Creek to alleviate street flooding. Channel improvements include installing 10x4 MBC							,							Non-structural Flood Infrastructure	12000000	635.000						Need to Calculate Durk Costs	
161 Antonio I	Bexar Project Summary Sheet	Quadsneet -	of Marbach Rd. N	Dreamland from RR to 550' West	n	along the channel to improve flow at this portion of Slick Creek.							Y		N		Y	ı,		Projects	12000029	535,000						Need to Calculate Study Cost;	1
				of RR Crossing; 1600 LF North and 4700 LF	Bridge	The project will consist of proposed Bridge crossing with +/- 6300 LF of total channel grading upstream and downstream and excavating to eliminate a														Structural and Non-structural Flood									
City of San 162 Antonio I	Bexar Project Summary Sheet	Quadsheet -	LWC#42 Dreamland south of RR Xing N	South of Dreamland LWC Wabash St from	Infrastructure	low water crossing. Street reconstruction includes driveway approaches, curbs, and sidewalks as required Channel improvements are proposed from the Six Mile Creek outfall up to	Y		U	U			Y	. 0	N		Ā	Y		Infrastructure Projects Structural and Non-structural	12000029, 12000033	\$35,000		U		*		Need to Calculate Study Cost;	1
City of San 163 Antonio	Bexar -		Normoyle Ditch - Alt 1 N	200 Ft north of New Laredo Hw	v Regional Channel	Challins improvements are purposed into the saw wife Celes colonial up to approximately 200 feet upstream of New Laredo Hwy. The project area was limited to the area south of Kelly AFB as the majority of habitable structures area located south of New Laredo Hwy.	Y		u	U			Y	- U	N		¥	c		Flood Infrastructure Projects	12000029, 12000033			U				Need to Calculate Study Cost;	1
City of 164 Selma	Bexar -	Wish List 2022	Master Drainage plan N	City of Selma	Watershed	A detailed drainage study of the city of Selma Stockdale Creek, a tributary of Clinton Branch which flows into Cibolo Creek,	N		N	N			N			. ,	Ą	с		Flood Studies and Analysis		Calculating 2022 -		N				Need to Calculate Study Cost	1
					Education and	Stockdale Creek, a tributary of Clinton Branch which flows into Cibolo Creek, does not have sufficient capacity to contain floodwater as it flows through the center of Stockdale. The railroad on the east side of town used to act as a levee, but when it was removed flooding was exacerbated throughout the																							
City of	Karnes and Wilson Countie	Hazard Mitigation	Develop and implement a Stormwater Management Plan		Outreach; Regulatory and	city. One major impact during flooding is that the EMS is located on the north side of town at the VFD and is cutoff from the majority of the city in a flood. A study needs to be conducted to identify solutions. Engineering														Flood Studies and			City Counci Planning,						
165 Stockdale 1	Wilson Hazard Mitigation Plan		for Stockdale Creek N	City of Stockdale	e Infrastructure	recommendation to be implemented. Improve storm water drainage within residential and commercial areas by	N		U	N			-	N -			Y	С		Structural and Non-structural	12000014	\$1,200,000 2020	Engineering			*		Stockdale Creek Study	1
City of 166 Stockdale 1	Karnes and Wilson Countie Wilson Hazard Mitigation Plan	Hazard Mitigation Plan 2020	Maintain Drainage System N	City of Stockdale	Natural Based Projects	removing brush and debris, opening and widening waterways, restricting building in the flood zone, and widening bridges. Status or project was 90% complete in 2012 plan awaiting purchase of two remaining properties. A drainage improvement was completed in 2018 with 2016 disaster relief	У		U	N				у .			N	с	C N	Flood Infrastructure Projects Structural and	12000029, 12000030, 12000033	\$2,000,000 2020	Engineering Planning, P Works	blic N				Property Buyout and Ordinance Changes	1 1
City of	Karnes and Wilson Countie	Hazard es Mitigation	Drainage improvements to			funding. Internal plumbing was buried and the size of the weir box was increased. Funding and improvements are still needed to connect 2 and 3 and cross CR401 to increase discharge capabilities. The diameter of the														Non-structural Flood Infrastructure	12000029, 12000030,		Engineering Planning, P	blic				Not sure if this is already Studied or will just need Design phase and BCA	
167 Stockdale 1	Wilson Hazard Mitigation Plan	Plan 2020	wastewater treatment plants N	City of Stockdale	e and Resilience	outfall pipe will be increased from 8in to 15in. New construction of waterway bridges on 6th and 8th Streets crossing Stockdale Creek. Lift elevation profile of the two bridges that provide access	Y	-	U	N	-	-	-	N -	-		A	c		Projects Structural and Non-structural	12000033	\$800,000 2020	Works Engineering	N	-	*		Not sure if this is already Studied or will just need	1
	Karnes and Wilson Countie Wilson Hazard Mitigation Plan	Plan 2020 Hazard		City of Stockdale	Bridge Improvements Regional	to critical facilities and services within the city as well as access from the City to the surrounding region	, v		U	N	-		N				Y	с		Infrastructure Projects Structural Flood	12000029, 12000030	\$500,000 2020	Planning, P Works Stockdale IS Public Worl	blic N		*		Design phase and BCA calculated	1
City of 169 Stockdale	Karnes and Wilson Countie Wilson Hazard Mitigation Plan		Detention/Retention pond on school property N	City of Stockdale Stockdale Creek between State	e Infrastructure	Install a Detention/Retention pond and reservoir to store excess stormwater on school property along Fordham Street	N.		U	N				N -			Ą	с	-	Infrastructure Projects	12000029, 12000030	\$1,500,000 2020	Public Worl Engineering			*		Need a study Cost	1
City of Stockdale	Wilson County Watershed Wilson Master Plan	Watershed Master Plan 2012	Damage Center 1 (Stockdale Creek) N	Highway 123 and U.S.	Infrastructure	Stockdale Creek Stream Restoration with a natural channel design	Y		Y	¥			Y	. N	N	, ,		c		Structural Flood Infrastructure Projects	12000029, 12000030	\$3,071,397 2015 -	- SARA	N				Need to Calculate Study Cost:	1
City of 171 Stockdale	Wilson County Watershed		Damage Center 2 (South Tributary to Stockdale Creek) N	Highway 87 South Tributary to Stockdale Creek Parrigin Road	Regional Detention	Detention South Tributary to Stockdale Creek near the eastern city limit	Y		N	N			Y	- N	N	v .		с		Projects Structural Flood Infrastructure Projects	12000029, 12000030	\$533,030 2015 -	- SARA	N				Need to Calculate Study Cost; FRR Calculated Need to develop BCR; May need to calculate study cost	1
City of Helo	SARA: Projects for flood risk		Parrigin Road Drainage	Parrigin Road crossing of Helotes Creek Tributary A near	Low Water	Parrigin Road low water crossing at Helotes Creek Tributary A floods frequently. limiting access for nearby														Flood Studies and	12000011,								
172 tes I	Bexar Reduction in Helotes	2016	Improvements N	Indian Trail Lost Springs Hollow, Hwy	Improvements		Y	-	U	U	-		Y	- N	N	v .	-	С		Analysis Structural Flood		\$1,053,000 2016 -	- SARA	N			-	LWC; needs study	1
173 Floresville 1	Wilson County Watershed Wilson Master Plan	Watershed Master Plan 2012	Damage Center 1: Project 1A, 1B Y	181 at Lodi Branch South of 4th St	Project Planning	Detention upstream of Lost Springs Hollow along with some channel work. Upgrade Hwy 181 crossing at Lodi Branch (contingent of Project 1A). The channelization project would add 8 feet to the left bank of the channel,	Y		Y	Y	-		Y	- U	U		-	-		Infrastructure Projects Structural Flood		\$ 2,200,000 2012		N	<1%	>1%		No Impact? Benefit cost ratio?	
174 Floresville 1	Wilson County Watershed Wilson Master Plan Holistic Watershed Master	Master Plan 2012	Damage Center 2: Project 1 Channelization N	between D and I Streets	E Engineering	and the depth would be kept at its existing elevation. The project would remove two structures adjacent to the stream from the floodplain.	Y		Y	Y			Y	. U	U		-			Infrastructure Projects Non-Structural		\$ 100,000 2012		N	<1%	>1%		No Impact? Benefit cost ratio? No Impact? Benefit cost ratio? FRR calculated.	
Goliad 175 County (Plan Wilson, Karnes, and Goliad Counties, Flood Issu Goliad Volume Holistic Watershed Master	ues Watershed Master Plan 2015	Goliad Damage Center A N	Bungalow Ave and N San Patricio St	Engineering Project Planning	Vegetated swales along Bungalow Ave and N San Patricio St, includes LID elements.	Y		Y	¥			γ	. U	U	, .				Flood Infrastructure Projects		\$519,000 2015	U	N	<1%	1%		FRR calculated. Consider FME to update model to Atlas 14. No Impact? Benefit cost ratio?	1
Gollad 176 County	Plan Wilson, Karnes, and Goliad Counties, Flood Issu Goliad Volume	Holistic	Goliad Damage Center B N	north of W. Ward St	Engineering Project Planning	Construct dam north of W. Ward St. Increase the number of public outreach and education activities to	Y		Y	¥			Y		l.	, .	_			Structural Flood Infrastructure Projects		\$1,247,000 2015	U	N	<1%	2%		FRR calculated. Consider FME to update model to Atlas 14.	
176 County (Greater Edwards Aquifer			Development of a Streamscaping Program for Flood Risk Management in	San Antonio	Education and	improve awareness of flood hazards and benefits of flood planning in the Flood Planning Region. Promote nature-based solution training to enable														Flood Studies and									
177 Alliance I	Bexar RFPG Committee	Wish List 2022	rexas N	River Basin	Outreach	greater participation in flood risk/mitigation decisions	Y	-	,	Y				Y Y	N		N	, a	, Iv	Analysis	12000014	\$129,000 2022	SARA Karnes Cou Road and B Special Pro						1
178 County I	Karnes and Wilson Countie Hazard Mitigation Plan	Plan 2020 Hazard	Low Water Crossing signage N	Karnes County		Identify sites and install Road Closed Signage/ Warning device to alert traffic that roads closed due to high water	Y		Y	N				N -	-		Y	у		Flood Studies and Analysis		\$300,000 2020 -	- Emergency - Manageme	t Y		-			1
Karnes 179 County	Karnes and Wilson Countie Karnes Hazard Mitigation Plan	es Mitigation	Low Water Crossing Upgrades N	Karnes County		Prioritize low water crossings within Karnes County and upgrade with higher level of flood protection, warnings, and signage	Y		Y.	N			_	N -	+		A	Y		Flood Studies and Analysis		\$5,000 -	Karnes Cou SARA Sheriff Departmen	Y					1
Karnes 180 County	Karnes and Wilson Countie Karnes Hazard Mitigation Plan	Hazard Mitigation Plan 2020	Early warning flood systems N	Karnes County	Engineering Project Planning	Conduct feasibility analysis for need and location for placement and installation of an early warning system. Install early warning systems for non- incorporated communities		_	¥	N				N -			Y	Y		Flood Studies and Analysis		\$150,000 -	Departmen Emergency Manageme - Special Proj	t.					1
Karnes	Karnes and Wilson Countie	Hazard Mitigation	Update flood information and		Watershed	Incorporated communities Identify and compile information on flood hazard areas and residential property in flood zones, establish and implement a volunteer acquisition / elevation program based on FEMA protocol in association with SARA studies,														Flood Studies and			Karnes Cou	ty					
181 County I	Karnes Hazard Mitigation Plan	Plan 2020	policies N	Karnes County	Planning	and review permitting process based on the 100-year flood event Identify residential structures that are located in flood zones or high hazard	Y	-	Y	N	-	-	-	N -	-		A	Y		Analysis		\$100,000 2020 -	- HMT, SARA	Y	-	*			1
Karnes 182 County I	Karnes and Wilson Countie Hazard Mitigation Plan	Mitigation Plan 2020	Inventory of residences in floodplain N	Karnes County	Watershed Planning	areas and develop plan and implement a program for floodproofing or acquisition. Keep a database of flood prone, repetitive loss, and severe repetitive loss properties with pertinent information about each property	Y	-	¥	N	-		-	N -	-		A	Y		Flood Studies and Analysis		\$50,000 2020 -	Karnes Cou HMT, SARA Commission						1
Karnes	Karnes and Wilson Countie	Hazard Mitigation	Shelter requirement for RV	No.	Regulatory and	Adopt and implement an ordinance to require RV Parks to provide shelter														Structural Flood Infrastructure		510000	Court/ Emergency Manageme	t/					
183 County I	Karnes Hazard Mitigation Plan Karnes and Wilson Countie	Hazard		Karnes County	Guidance Low Water Crossings or Bridge	facilities. Wilden bridge at CR 337 to accommodate two way traffic in case	Y	-	N .	N					-		N		, N	Structural Flood Infrastructure		2020 -	- County Atto Karnes Cou Road and B Emergency	idge,					1
184 County I	Karnes Hazard Mitigation Plan Holistic Watershed Master Plan Wilson, Karnes, and	Plan 2020 Holistic	Improve bridge at CR 337 N	Karnes County	Improvements	Wilden pringle at CK 337 to accommodate two way traffic in case emergencies and to allow the conveyance of floodwaters	Y		Y	Y	-	-	N		-			С		Projects Structural Flood		\$500,000 -	- Manageme					Need to update with more information.	1
185 County I	Goliad Counties, Flood Issu Volume	Watershed Master Plan 2015	Karnes Damage Center H N	Hwy 181/5th in Kenedy	Engineering Project Planning	Raise bridge on Hwy 181/5th in Kenedy	Y	-	U	Y	-		у	- U	U		-	-		Infrastructure Projects		\$277,000 2015 -	-	N	<1%	1%	1	Consider FME to rerun analysis with Atlas 14	1
						Farner County (County) is presented in the second																							
						Karnes County (County) is requesting financial assistance to conduct a region flood protection planning study. This study will include tasks to: develop and update floodplain models and maps for high priority streams; identify flood problem area and road crossings; develop structural and non-structural																							
						mitigation alternatives like channel improvements, detention facilities, bridge/culvert crossing upgrades, levees, early warning systems and implementation of higher standards for floodplain development; conduct																							
186 County	Karnes TWDB Active Projects (FIF)	TWD8 2021	Flood Protection Planning Study N	Karnes County Escondido Creek	Planning	benefit-cost analyses of mitigation alternatives; and improve flood mitigation plan and emergency response planning.	у у	-	¥	N	-			N -	-		A	Y		Flood Studies and Analysis Structural Flood		5619,000 -		Y		-			1
Karnes 187 County I	Karnes SARA Wish List	Wish List 2022	Karnes Dam Rehabilitation N Damage Center 1: Upgrade	WS SCS Site 1,2, and 4 Dam	Engineering Project Planning	Rehabilitation of Escondido Creek 1.2, and 4 to ensure passage of the PMF. Perform a PER to study the addition of fourteen 6-foot by 3-foot culverts	Y	-	Y	У			N		-			с		Infrastructure Projects			-	Y		Passage of PMF			1
188 La Vernia	Wilson County Watershed Wilson Master Plan	Watershed Master Plan 2012	Damage Center 1: Upgrade Hwy 87 crossing at Chihuahua (La Vernia) N	Hwy 87 crossing	g Engineering Project Planning	required to create enough capacity to convey the flow without overtopping	Y	-	N	Y	-		Y	. N		. ,		c		Flood Studies and Analysis		\$700,000 2012 -		Y	<1%	1%			1

Part	SARFP: FMP/F	MF/FMS Iden	ntification Pr	ocess Table			Step 0	*Steps defined per Task 48 Process Outline	Refer to Technical Mem	0.				Step 2-1: FM	•		Step 2-2: FME		Step 2-3: FMS	Step 3		Step 4: Project Details	/Feasibility		Step 4-1: Addition	al Project Details	Step 5		
Part	SAINT THUI Y		Tellication 1	occas rubic			экер о		Jiep I					Step 2-1. rm	Sufficient P				Step 2-3. FWS	Step 3		Step 4. Project Details	/reasibility		Step 4-1. Addition	ar Floject Details	Step 3		
Tender T				Pha	ased/					Reduces 100-year	Exemption for not		STRUCTURAL Sufficient Data	Sufficient Data	gative Effect (BCA, Cost Es		r Structures, Population,	Has a Planning Level Cost Estimate	Has a Planning Level Cost Estimated Flood R or Flood Reduction	lisk on		Operations and	FMP ONLY		FMP ONL	FMP ONLY			
Column C	General Community /Sponsor Coun	y Source Name	Source Type So			Project Description	Screening: Already completed?	Management Goal (FPR to define)	mi^2	flood risk	- Problem Area Size		(Y/N)	(Y/N)	s at Ris	(Y/N/D)	at Risk	(Y/N/C)	(Y/N) (Y/N)			Project Cort Date Maintenance	Benefit-Cost Ratio Spo	nsor Verified (Y/N/I	J) Pre-Projec	Post-Project	Response	Notes F	MP_ID FME_ID FMS_ID
				_				(Y/N) (Y/N)	(Y/N)	(47.4)								If "No" consider FMS		-				If "No" co	nsider	-			
March Marc				(Y,	/N)	There is not adequate drainage infrastructure to convey these flows without	out						If "No" consider FME	If "No" consider FME If "No"	consider FME If "No" consider	FME If "D" develop	If "No" consider FMS	If "C" calculate cost	If "No" consider FMS* If "No" consider FI	MS*									
Total Control of the Control of th		Wilson County Watershe	ed Watershed	Damage Center 2: Southern	Channel at Engineering	major flooding in the streets and adjacent properties. An interception channel is proposed														Flood Studies and									
	189 La Vernia Wilson	Master Plan	Master Plan 201	! Watershed Channel N	FM775 Project Planning	Lower Cibolo Creek. Perform a PER to study alternatives. Study to assess 6'-wide concrete-bottom channel/sidewalk with earthen		Α -	N	Y	-		Y	- N	-	Y	-	С		Analysis	\$37	0,000 2012 -	-	Y	N/A	1%			1
March Marc		Report Overall Preliminary Drain	Master Plan 202 inage Drainage	! ISD) N Issue #4 (Woodbridge Farms	City Park Project Planning Regulatory and	path. Gauge boards on San Antonio Road. Creating or increasing requirements for erosion and sedimentation control	ow ols	у .	N	Y			N		-	D	-	с			\$43	0,900 2022 -		Y	<1%	1%			1
Column C	191 La Vernia Wilson					Study to assess city acquire drainage easements in the area upstream of the Highway 87 crossings, as well as the area between the crossings at Highway		Α .	Y	Y	-		-	N -	-	N	-		N N	Flood Prevention			-	-		-			1
Column C	192 La Vernia Wilson	Overall Preliminary Drain Report			Engineering HWY 87 Crossing Project Planning	87 and the crossing at CR 342. Easement acquisition would allow for the construction of a defined channel through these sections. The schools in La Vernia are most at risk of flooding. A detailed study of cr	ost	Υ -	U	У			N		-	D	-	с			\$51	3,400 2022 -		У	<1%	1%			1
	La Vernia 193 ISD Wilson		nties Mitigation	Upgrade/Harden Schools			ds	γ .	Y	У			N		-	-	Y	Υ			\$27	5,000 2020	LVIS Wor), Public IS N	-		No neg	rative impact?	1
	Medina 194 County Medina		Watershed N 201		Cinco De Mayo Engineering	Regional detention, channel improvements, and bridge/culvert upgrades,		Υ -	Y	Υ			Y	. u	Y					Infrastructure Projects	\$	63,000,000 2015 .		N	>1%	1%	Conside model t	er FME to update to Atlas 14	1
	Medina 195 County Medina	Medina River Holistic Watershed Master Plan	Watershed N 201	Cagnon Rd at Polecat Creek (DC- MRN) N		Replace the existing crossing with an approximately 320-foot long bridge.		γ .	Y	Y	-		Y	. U	Y					Infrastructure	\$	16,000,000 2015 -		N	>1%	1%	model t	to Atlas 15	1
	Medina 196 County Medina	Medina River Holistic Watershed Master Plan	Watershed N 201	Trumbo Rd at Palo Blanco Creek (DC-MRP) N	Palo Blanco Engineering	Upgrades to Trumbo Rd and Loop 1604 crossings at Palo Blanco Creek wit	th	Υ -	Y	Υ			Y	. u	Y				-	Infrastructure	5	11,000,000 2015 .		N	>1%	2%	Conside	er FME to update	1
						protect open spaces and natural areas within the Watershed. Such a	nt																						
						and design phase for each of the D/O centers. The program will help to m hydrology and hydraulic objectives for the Watershed and provide public	eet																						
						interagency and intergovernmental coordination inherent to the program, has the potential to create initiatives that influence Watershed decisions in	n																						
	Medina 197 County Medina		Watershed Maste	Conservation Easement Plan Program N	Regulatory and Medina River Guidance	the Watershed that are outside of SARA's authority. Mission of Service is to provide technical assistance, program delivery and	1	Υ .	Y	N	-			N -	-	-	N		N N	Flood Prevention				-	-				1
March Marc						science-based information to protect against wildland fires and other emergencies. A major part of the Texas Forest Service (TFS) activity is																							
Part	Medina	Medina River Holistic			Flood readiness	that share its mission. The TFS provides programs to aid communities by giving these communities tools and resources to actively protect property	,																						
The content of the	198 County Medina	Watershed Master Plan	Watershed Maste	Plan Texas Forest Service N	Medina River and resilience	This Flood Management Evaluation (FME) will fill the knowledge gap in the		Υ .	Y	N			-	N -	-	-	N		N N	Outreach				-					1
	San Antonio			Halistic Watershed based	Resignal	region on the benefits of NFMS for floodplains, flood peak attenuation, ecosystem services, groundwater recharge, and recreational value. Both																					Mond to	o evaluate whether	
	River 199 Authority All	RFPG Committee	Wish List 202	master planning consistent		San Antonio River Watershed d based on recent San Antonio River Author	rity	Υ .	Y	Y		-		N Y	N	Y	-	с		Flood Studies and Analysis 120	00013 \$2,5	500,000 2022 -	- SAR	U			entire S	SA River Basin should	1
	Wilson, Karnes, Goliad,																												
	Refugio Victoria DeWitt																												
The content of the			Wish List 202	Lower Basin Predictive Flood Model N	SARA Lower Basin Watershed Plans	Lower Basin Predictive Flood Model		Υ .	Y	N				N .			Y	С		Flood Studies and Analysis				У			Need m	nore information	1
The content of the																													
The content of the						Destruction of Nickels Country Income about the country in the																							
						of flow and sediment. This will address cracking and instability of the concre lining of the creek, to maintain flood conveyance of the channel while ensuri	nce ste ing						_							Structural Flood Infrastructure									
	201 SAKA Karnes	SAKA WISh list	wish List	Nichols Creek Stabilization N	Nichols Creek Engineering Proj	a saturity of the saturality				Y										Projects							Need m	nore information 1	
						Study to identify the appropriate and most efficient locations to monitor																							
	202 SARA SARB	SARA Wish list	Wish List	Evaluation and prioritization of r N	SARB Watershed plans	stage/discharge on streams within the San Antonio River Basin. Evaluation emerging technologies and combinations of monitoring technologies in orde identify cost effective and resilient monitoring programs.	on er to	Υ .	Y	Υ				N -		Y		с		Flood Studies and Analysis				Y			Need m	nore information	1
						Development of a dataset identifying lands under conservation easement. Project includes courthouse and deed records research to identify lands the	at de																						
Part																													
	203 SARA SARB	SARA Wish list	Wish List	Natural capital inventory N	SARB Watershed plans	buffer improvements, soil health management, etc. Such a program would		γ .	Y	Y				N -	-		N		N N	Flood Studies and Analysis	-			-			Need m	nore information	1
Marchane						Study to identify and quantify the impact of floodplain condition on flood																							
No.						mitigation. The flood impacts of natural floodplains in various conditions can compared to fully developed floodplains with the difference considered to be the function of the natural floodplain. This can be used to identify areas of t	n be e high																						
Marchane	204 SARA SARB		Wish List	Quantification of benefits of nat N Future conditions data	SARB Watershed plann	natural capital.		у .	Y	Y				N -		Y	-	с		Analysis				Y					1
Total Content of the content of th	205 SARA SARB 206 SARA SARB	SARA Wish list SARA Wish list	Wish List Wish List	*Port SA *River Authority WWTP	Engineering			A -	Y	N	-	-	-	N -		-	Y	С			-			-					1
No. Control	207 SARA SARB 208 SARA SARB			Resilience N *Other suburban city projects N				Y -	Y U	Y U			N N		-	Y Y		C C					:	-					1 1
No.	209 SARA SARB	SARA Wish list Refugio County Flood	Wish List	elevation N	Property/Easemi	Buyouts/neighborhood elevation The bridge on Hatch Street in Tivoli was replaced with a culvert which dra	ins	Υ .	Y	Y		-	N	. U	U	Y	-	С		Structural Flood	-						More in	nfo Needed	1
No.	210 Community Refugio	Refugio County Flood	Wish List 202	! St in Tivoli N	Community Project Planning	determine solutions for this drainage issue. Culverts on Highway 239 in Tivoli are too small causing water to get in		γ .	U	Y			N		-	Y	-	С		Projects Structural Flood									1
No.	Tivoli 211 Community Refugio	Mitigation Projects Outro Data Collection	reach Wish List 202	Highway 239 in Tivoli N	Tivoli Engineering	houses. Study to find alternatives to determine solutions for this drainage	ge	γ -	U	Y			N		-	Y	-	с		Infrastructure									1
No.	212 Community Refugio	Mitigation Projects Outre Data Collection	reach Wish List 202	Creek Ranch Drainage	Tivoli Engineering Community Project Planning	area which is washing out property where Indian artifacts were found. Stu to find alternatives to determine solutions for this drainage issue.	ady	ν .	U	Y			N		-	Y	-	с		Intrastructure									1
Part	Tivoli 213 Community Refugio	Mitigation Projects Outro Data Collection	reach Wish List 202	Replacement N			d	Υ .	U	Y			N			Y		с		Infrastructure									1
No.	Wilson		ed Watershed	Recommend for Wilson Roadways - Project 1 - CR 401 & Clifton																Structural Flood							does th	nis bridge need to be	
No.	214 County Wilson	Master Plan	Master Plan 201	! Branch N Recommend for Wilson	Wilson County Project Planning	storm events.		Α .	Y	U	-	-	N		-	Y	-	с		Projects	\$	500,000 2012 -	-	Y			Ask Wil-	Ison - what storm event	1
Part	Wilson County Wilson			Project 3 - CR 122 & Mariana	Wilson County Project Planning	Upgrade crossing so that it provides a safe evacuation route during large storm events.		γ .	Y	U			N			Y		с		Infrastructure	\$80	6,000 2012 -		У			upgrade	led to?	1
No.	Wilson	Wilson County Watershe	ed Watershed	Roadways - Project 4 - Mariana	Engineering	Upgrade crossing so that it provides a safe evacuation route during large														Infrastructure							does th	nis bridge need to be	
March Marc	216 County Wilson	Master Plan	Master Plan 201	! Rd & Mariana Creek N	Wilson County Project Planning	storm events.		Υ -	Y	U	-		N		-	Y		С		Projects	\$80	6,000 2012 -	+ +	Y		*	Ask Wil	Ison - what storm event	1
Record Control Contr	Wilson County Wilson			Roadways - Project 5 - CR 108	Wilson County Engineering Project Planning	Upgrade crossing so that it provides a safe evacuation route during large storm events.		ν .	Y	U			N		-	У	-	с		Infrastructure	\$47	7,000 2012 -		У			upgrade	led to?	1
1	Wilson			Roadways - Project 6 - CR 225	Engineering	Upgrade bridge so that it provides a safe evacuation route during large														Infrastructure							does th	nis bridge need to be	
Note	218 County Wilson			Recommend for Wilson	Wilson County Project Planning	storm events.		Α -	Y	U	-	-	N		-	A		С		Structural Flood	\$3,1	150,000 2012 -	-	Y	-		Ask Will does thi	Ison - what storm event his bridge need to be	1
Second		Wilson County Watershe Master Plan	ed Watershed Master Plan 201	Roadways - Project 7 - CR 119	Wilson County Engineering Project Planning	Upgrade bridge so that it provides a safe evacuation route during large storm events. Phase I: For inserting study of decime robuston.	rolo.	ν .	Y	U			N		-	У	-	с		Infrastructure Projects	\$1,4	140,000 2012 -		У					1
1/2 1/2	Wilson	Karnes and Wilson Count	nties Mitigation		Engineering	Creek. Phase II: Implementation of stabilization project to address stream incision														Infrastructure									
22 Corty Wilson Displayed Pine Pine Pine Pine Pine Pine Pine Pine		Hazard Mitigation Plan Karnes and Wilson Count	Plan 202 Hazard Ities Mitigation	Wilson 4 - Stormwater	Watershed	and erosion CR 401 at Cibolo Creek. Develop flood hazard information by collection information, high water marks, and conduct engineering studies to develop the 100-year and SCC.		Α	Y	N		-	N		-	-	Y	Y		Flood Studies and 120		0,000 2020 -	- Com	missioners Y					1
Wilson Some and Wilson Faster and Wilson Countries Wilson Some And Advanced Miles and Advanced Some An		Hazard Mitigation Plan	Plan 202	Management Plan N	Wilson County Planning	year flood elevation levels Phase I: Engineering study of design solutions to erosion of CR 202 at		Υ -	Y	N		-		N -		-	Y	Y		Analysis 120		0,000 2020 -	- SAR	Υ Υ					1
Wilson Sames and Wilson County (Survey Wilson Fames and Wilson County (Survey Wilson Fames and Wilson County (Wilson Fames and Wi		Karnes and Wilson Count Hazard Mitigation Plan	Hazard Mitigation Plan 202	Erosion on CR 202 East and Marcelina Creek Y	Wilson County Project Planning	Phase II: Implementation of stabilization project to address stream incision	n	γ .	Y	N			N			-	У	Y		Infrastructure Projects	\$30	0,000 2020 -							1
Wilson Description County Wilson Plazard Million Plan Flood Prevention Starres and Wilson County Wilson Plazard Million Plan Flood Prevention Wilson Plazard Million Plan Flood Prevention Wilson Plazard Million Plan Flood Warning Wilson Plazard Million Flood Warning Wilson Plazard M		Karnes and Wilson Count	nties Mitigation	Erosion on CR 128 drainage channel Southeast of FM 775 intersection				, .	Y	N			N			Y		Y	<u> </u>	Structural Flood Infrastructure	enr	5.000 2020	Wils	on County					1
Wilson Description County Wilson Plazard Million Plan Flood Prevention Starres and Wilson County Wilson Plazard Million Plan Flood Prevention Wilson Plazard Million Plan Flood Prevention Wilson Plazard Million Plan Flood Warning Wilson Plazard Million Flood Warning Wilson Plazard M	Soundy Wilson	a mogatoon rian	202	15	Figure Published	Acquire flooded structures to remove them out of the SFHA and restrict future structures from development on the site. Consider the establishm	ent														212		KOS						
224 County Wilson Mazard Militation Plan Flash Fla						structure relocation program", "Structure elevation program" to address																	Wils	on County, e of					
Wilson Surres and Wilson Counts Misspan Wilson Counts Misspan Mi	Wilson 224 County Wilson	Hazard Mitigation Plan	Plan 202 Hazard	Plooded Structures N	Wilson County nt Acquisition Flood Warning	Information about each property		γ .	Y	Y			N		-	Y	-	с		Flood Prevention -	\$85	0,000 2020 -	- Eme - Man	gency agement Y	-		Need to propert	ocation of flooded ties	1
Information; Community Color Control Watershed Watershed FM 537 at Clool Creek Watershed FM 53	Wilson County Wilson	Karnes and Wilson Count	nties Mitigation	Wilson 9 - Install Gates at Low Water Crossings N	and	Install gates at low water crossings on county roads repeatedly resulting in	n	Υ .	Y	γ			N			У	-	с		Flood Warning and Readiness -	\$60	0,000 2020 -	- Wils	on County & Bridge -			Need to	ocation of LWC	1
Wilson Clobal Creek Watershed Waters					Crossings or																						informa - model	ation;	
	Wilson 226 County Wilson	Cibolo Creek Watershed Holistic Master Plan	Watershed Master Plan 201	FM 537 at Cibolo Creek LWC Replacement N	FM 537 low Bridge water crossing Improvements	Inira most dangerous crossing in Cibolo Creek watershed. Replace FM 53: low water crossing of Cibolo Creek with a bridge.	, A	Υ .	Y	Y		-	Y	. u	U	-			. ,	Infrastructure Projects	\$4,0	2018 -	U	u	<50%	>1%	- BCA - No Im	npact 1	

	"Steps defined per Task 48 Prozess Quitine. Refer to Technical Memo.																						
SARFP: FMP/FME/FMS Identification Process Table	Step 0	Step 1			Step 2-1: FMP				Step 2-2: FME		Step 2-3: FMS Ste			Step 4: Project Details/Feasibility			Step 4-1: Additional Project Details			Step 5			
General Community D //gonzer County Source Name Source Type Source Date Project Tide Project Location Project Type Project Location Project Type Project Description	Screening: Already completed?	Related to Flood Meets Emergency Mitigation/ Need Management Goal (FPR to define) (Y/N) (Y/N)	Addresses flood problem with DA > 1 Reduces 100-year flood risk (Y/N) (Y/N)	RFPG Allows Exemption for not meeting; - Problem Area Size - Flood Risk Reduction (Y/N)	Suf	STRUCTURAL NONSTRUCTURAL Sufficient Data (Y/N) (Y/N)	No Negative Effect (Y/N)	Sufficient Project Details (BCA, Cost Estimate, Struc/Pop/Crit.Facilitie s at Risk) (Y/N)	Engineering Evaluation and Critical Facilit at Risk (Y/N/D) (Y/N)	(Y/N/C)	el Mas a Planning Level Estimated Flood Ris or Flood Reduction (Y/N) (Y/N)	Associated Goal Assoc Types	ilated Goal	Broject Cort Broject Cort Date N	erations and faintenance Benefit Cost Rat	Cost	Atlas 14 (Y/N/U) If "No" consider	FMP ONLY Pre-Project Level of Service	FMP ONLY Post-Project Level of Service	Public Comment/RFPG Response	Notes	FMP_ID	FME_ID FMS_ID
(*/**)					If "No	io" consider FME If "No" consider F	ME If "No" consider FME	If "No" consider FME	If "No" consider FMS If "D" develop If "No" consider F	MS If "No" consider FN If "C" calculate cos	If "No" consider FMS* If "No" consider FM	*					additional FME for update						
Wilson Wilson County Watershed Watershed 202 and Tributary 315 to the clower San Antonio Meru. Wilson Wilson Matter Plan Matter Plan Watershed 2022 A New Yestershed W Basilium San Antonio Meru. Basilium San Antonio Meru. County Road 302 and Tributary 315 to the County San Antonio Meru. Antonio Meru. Pagineering Adding a bridge to allow the 5yr design storm to pass. A bridge Meru. Recommended San Antonio Meru.		Υ -	u N		Y		U	N	D -	с		Structural Flood Infrastructure Projects	s	5697,500			N	≪Yr	>5Yr		Need to update with more information; model BCA No Impact detailed cost needed Consider FME to run model with Atlas 14.	1 1	
Wilson Wilson County Watershed Watershed 228 County Wilson Master Plan 2012 Creek N Creek Project Planning passing the 1yr storm.		v .	ı N	l	N N				, l.		l. l.	Flood Studies and Analysis					v					,	
Wilson County Wi		Α .	U N		N				у .	c		Flood Studies and Analysis Structural Flood Infrastructure				-	У					1	
Country / Wilson Country watersned watersness watersned watersness watersnes		Υ .	r u	-	N	-				Y		Projects Structural Flood	s	3,091,500 2012 -			Y		-			1	
County/ Wilson County Watershed Wate		, .	r U		N					Y		Infrastructure Projects	s	3565,000 2012 -			Y					1	