#### Batch 2B

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101000049	Lady Bird Golf Course Low water crossing	Gillespie	5				
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101000052	W Travis Low Water Crossing	Gillespie	8				
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101000059	Repair of Little Barton Creek Dam	Hays	18				
101000060	Floodplain/floodway audit	Hays	19				
101000079	Various Streets - Construct scour and erosion protection for bridges/culverts with high scour	Hays and others	20				
101000158	Citywide Storm Drain Infrastructure Modeling	Hays and others	21				
101000063	Develop rainwater diversion project through town	Jackson	22				
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101000094	Upgrade/Raise various bridges above current Base Flood Elevation levels	Jackson	27				
101000118	Sandy Oaks Subdivision Flood Event Study	Jackson and others	28				
101000106	Various Streets - Raise road and increase dimensions of drainage culverts in flood prone	Kendall and others	29				
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101000069	Llano River Erosion	Kimble	32				
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101000071	Clean out and deepen the stormwater drainage ditches in key flood prone areas	Llano, Burnet	36				
101000075	Airport Drainage Improvements	Matagorda	37				
101000077	Update Flood Insurance Study & Flood Insurance Rate Maps (FIRMS)	Matagorda	38				
101000076	Tres Palacios River	Matagorda	39				
101000149	Various Streets	Menard	40				

Flood Management Evaluat	Lower Colorado-Lavaca REGIONAL FLOOD	
Title Creek St at Barons Creek	ID# 101000045	PLANNING GROUP
Sponsor (name of entity) Fredericksburg (Municipality)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG	recommend TBD	
Study Type Project Planning		
Problem Area	N	
City Fredericksburg County Gillespie		
Watershed Name Barons Creek		Prop A
Tributary(ies) Barons Creek		
HUC# 12090206 Stream miles (est.) TBD	- Mile	
Drainage area: square miles, est 0.01 or acreage, est. 8		A Party of A
Social vulnerability index 0.1		
Other Install Flood Early Warning System	h	Urer sp

Creek Street overtops by approximately 11 feet during the 100-year event. The city has identified this crossing as a candidate for a flood early warning systems because improving the roadway/crossing in not feasible.

Population at risk 5TBD

Structures at risk 4TBD

Farm/Ranch land impacted (acres) -TBD

t risk 4TBD

Critical facilities at risk OTBD d (miles) -TBD

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

Roadway(s) impacted (miles)

#### **Related Goal(s)**

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$15,000

FIO	000 IN	lanag	gem	ent Eva	UDY	REGIO	DNAL F						
Title	Highway S	it				ID# 101	000046		FLANNING GROUP				
Sponso	or (name of	f entity) Frede	ericksburg	g (Municipality)		Commitm	ient Yes			<b>REGION 10</b>			
Techni	cal commit	tee recomme	nd TBD		RFPG recor	mmend TB	D						
Study	туре	Other											
Probl	em Area					N		6	3				
City F	redericksbu	urg	Co	ounty Gillespie				No Co	S A	And A Destruction			
Waters	shed Name	Muesebach	Creek - Po	edernales River, Ba	rons Creek				shirt	Total Carton	THE AND	R	
Tributa	ary(ies) Un	named Tribut	ary						Ma		and a set	~	
HUC#	1209020	6	Stream	miles (est.) TBD							Apple St	「	
Draina	ge area: sq	uare miles, es	st 0.08	or acreage, est	. 54					ighway St			
Social	vulnerabilit	ty index 0.1										N.S.	
Other	Roadway/	Crossing Impr	ovement	s & Channel Impro	vements					Friend	ship Ln		

Lower Colorado Lavaca

### **Flood Risk Description**

The existing crossing is undersized and overtops. The proposed improvements include a vegetated channel system with multi-box (2) culverts and storm drain system. The existing road is a 2-lane road with an average daily traffic count of 9,535.

Population at risk -TBD

Structures at risk -TBD

Critical facilities at risk -TBD

Farm/Ranch land impacted (acres) -TBD

Roadway(s) impacted (miles)

-TBD

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, rightof-way needs, and constructability).

#### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$250,000

#### Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP** ID# 101000048 Title Trailmoor near Llano Hwy Sponsor (name of entity) Fredericksburg (Municipality) Commitment **REGION 10** Yes Technical committee recommend TBD RFPG recommend TBD Study Type Other **Problem Area** City Fredericksburg County Gillespie Watershed Name Barons Creek Tributary(ies) Town Creek HUC# 12090206 Stream miles (est.) TBD Drainage area: square miles, est 0.26 or acreage, est. 168 Social vulnerability index 0.1 Other Drainage System Improvements

## **Flood Risk Description**

The watershed currently does not have a stormwater system throughout. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 209

Structures at risk 11

Farm/Ranch land impacted (acres) 12

lules at lisk 11

Critical facilities at risk 0

0.23

## Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$250,000

Flo	od N	lanag	geme	Lower Colorado-Lavaca REGIONAL FLOOD				
Title	Lady Bird	Golf Course Lo	ow water cr	ossing		ID# 10100004	49	PLANNING GROUP
Spons	or (name o	f entity) <mark>Frede</mark>	ericksburg (I	Municipality)		Commitment	Yes	REGION 10
Techni	ical commit	tee recomme	nd TBD		RFPG recon	nmend TBD		
Study	у Туре	Other						
Prob	lem Area					N	1	
City F	redericksb	urg	Coun	ty Gillespie				
Water	shed Name	Live Oak Cre	ek					
Tributa	ary(ies) Liv	e Oak Creek				100	1	The second se
HUC#	1209020	6	Stream m	iles (est.) TBD		3.2.1		A A A
Draina	ige area: sq	uare miles, es	t 0.00	or acreage, est.	1	-2010	1. I	
Social	vulnerabilit	ty index 0.1				100	NK	
Other	Install Floo	od Early Warni	ng System			L	1	

Lady Bird Street acts as a small in-channel dam. There is little freeboard and the road overtops frequently. The city has identified this crossing as a candidate for a flood early warning systems because improving the roadway/crossing in not feasible.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 0

\_\_\_\_\_

Roadway(s) impacted (miles) 0.08

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

#### **Related Goal(s)**

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$15,000

# Flood Management Evaluation (FME) STUDY

## Lower Colorado-Lavaca **REGIONAL FLOOD** PLANNING GROUP

Title Drainage Channel near EMS Building Sponsor (name of entity) Fredericksburg (Municipality) Technical committee recommend TBD

ID# 101000050 Commitment Yes

**REGION 10** 

#### Study Type Other

#### Problem Area

FIUDICITIATE	1		
City Fredericks	burg	County Gillespie	
Watershed Nam	e Muesebach Creel	k - Pedernales River	
Tributary(ies) U	nnamed Tributary		
HUC# 120902	06 Str	eam miles (est.) 0.50	
Drainage area: s	quare miles, est 0.0	or acreage, est.	3
Social vulnerabi	lity index 0.1		
Other Channel	Improvements/eros	sion protection	

RFPG recommend TBD

#### **Flood Risk Description**

There is existing erosion along the Pedernales River Tributary 2 near the City's Emergency Management System building that is threatening utilities servicing the building and nearby residential structures.

Population at risk -TBD

Structures at risk -TBD

Farm/Ranch land impacted (acres) -TBD

Critical facilities at risk -TBD -TBD

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, rightof-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$50,000

Flo	od N	/lanage	eme	Lower Colorado-Lavaca REGIONAL FLOOD				
Title	Bob White	Trail				ID# 1010000	51	PLANNING GROUP
Sponso	or (name of	entity) Frederi	cksburg	(Municipality)		Commitment	Yes	REGION 10
Techni	cal commit	tee recommend	1 TBD		RFPG recom	nmend TBD		
Study	туре	Other						
Probl	em Area					N	110 N	
City F	redericksbu	ırg	Соц	unty Gillespie			Ale .	
Waters	shed Name	Muesebach Cr	eek - Pe	dernales River			Ro Little	
Tributa	ary(ies) Uni	named Tributar	y			-5 1 10 100		
HUC#	1209020	6	Stream	miles (est.) TBD			State of	
Draina	ge area: sq	uare miles, est	0.01	or acreage, est.	4		Bob	white Trl
Social	vulnerabilit	y index 0.1					-34.4	
Other	Roadway/(	Crossing Improv	/ements	& Storm Drainage S	ystem			

The existing crossing is undersized and overtops. The existing crossing is a corrugated metal pipe crossing. The proposed improvements include a multi-pipe (2) culvert. The existing road is a 2-lane road with an average daily traffic count of 265.

Population at risk -TBD

Structures at risk -TBD

Farm/Ranch land impacted (acres) -TBD

Critical facilities at risk -TBD

-TBD

Roadway(s) impacted (miles)

### Scope of Study

Conduct a study to evaluate upsizing the existing culvert crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

### **Related Goal(s)**

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadway

## **Estimated Study Cost**

Flc	od N	/Janag	geme	Lower Colorado-Lavaca REGIONAL FLOOD				
Title	W Travis L	ow Water Cro	ssing			ID# 10100005	52	PLANNING GROUP
Sponse	or (name o	f entity) Frede	ericksburg	(Municipality)		Commitment	Yes	REGION 10
Techni	cal commit	tee recomme	nd TBD		RFPG recon	nmend TBD		
Study	/ Туре	Project Plan	ning					
Probl	em Area					N	h	
City F	redericksb	urg	Cou	nty Gillespie			W Tree	
Water	shed Name	Barons Creek	ĸ				Service of the servic	
Tributa	ary(ies) Tov	wn Creek					e Bar	A REAL
HUC#	1209020	6	Stream n	niles (est.) TBD		1000	100	
Draina	ge area: sq	uare miles, es	t 0.00	or acreage, est.	0			Sector Se
Social	vulnerabilit	ty index 0.1				20.1	171	Sult
Other	Install Floo	od Early Warni	ng System				47	

W. Travis Street has an undersized culvert and overtops frequently. The city has identified this crossing as a candidate for a flood early warning systems because improving the roadway/crossing in not feasible.

Population at risk -TBD

Structures at risk -TBD

Critical facilities at risk -TBD

Farm/Ranch land impacted (acres) -TBD

BD Roadway(s) impacted (miles)

acted (miles) OTB2

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

#### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$15,000

Flood Management Evaluatio	REGIONAL FLOOD	
Title N Edison Low Water Crossing	ID# 101000053	PLANNING GROUP
Sponsor (name of entity) Fredericksburg (Municipality)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG reco	mmend TBD	
Study Type Project Planning		
Problem Area	N S. MI	
City Fredericksburg County Gillespie		
Watershed Name Barons Creek		
Tributary(ies) Town Creek		Best and a second se
HUC# 12090206 Stream miles (est.) TBD		
Drainage area: square miles, est 0.00 or acreage, est. 0	States and the	
Social vulnerability index 0.1		
Other Roadway/Crossing Improvements and Install Flood Early Warning System		jeonst Ho

The existing crossing is undersized and overtops. The existing crossing is a low water crossing. The proposed improvements include redesigning the intersection and installing FEWS. The existing road is a 2-lane road with an average daily traffic count of 265.

Population at risk -TBD

Structures at risk -TBD

Farm/Ranch land impacted (acres) -TBD

t risk -TBD

Roadway(s) impacted (miles)

Critical facilities at risk -TBD cted (miles) 0000

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

## Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

## **Estimated Study Cost**

Cost \$15,000

1 1

FIO	od N	/lanag	eme	STUDY	REGIONAL FLOOD								
Title	Title Schubert Low Water Crossing							54	PLANNING GROUP				
Sponso	or (name of	fentity) Freder	ricksburg	(Municipality)		Commi	Imitment Yes REGION 10						
Technical committee recommend TBD RFPG recon						nmend	TBD						
Study	туре	Other											
Proble	em Area						N	- 2 F					
City F	redericksbu	urg	Cou	inty Gillespie									
Waters	shed Name	Barons Creek						74 J.					
Tributa	ary(ies) Un	named Tributa	ry				TA	A BERNE					
HUC#	1209020	6	Stream r	miles (est.) TBD			5	N TOP					
Draina	ge area: sq	uare miles, est	2.43	or acreage, est.	1,556		and the second		A. CARLES SECTION				
Social	vulnerabilit	y index 0.1					17th	y An					
Other	Roadway/	Crossing Impro	vements	& Channel Improve	ments	200			965 16				

### **Flood Risk Description**

The existing crossing is undersized and overtops. The existing crossing consists of a low water crossing. The proposed improvements include lowering the channel and adding drop structures and box culverts. The existing road is a 2-lane road with an average daily traffic count of 269.

Population at risk 59

Structures at risk 44

Farm/Ranch land impacted (acres) 112

Critical facilities at risk 0

#### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles) 1.35

#### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

## **Estimated Study Cost**

Cost \$15,000

Flood M	anageme	Lower Colorado-Lavaca REGIONAL FLOOD								
Title 200 Block N	Orange			ID# 10100005	55	PLANNING GRUUP				
Sponsor (name of e	ntity) Fredericksburg	(Municipality)		Commitment	Yes	REGION 10				
Technical committee	e recommend TBD		RFPG recom	nmend TBD						
Study Type	other									
Problem Area				N		\$ h				
City Fredericksburg	g Cou	nty Gillespie				ravis and a second				
Watershed Name B	arons Creek					· · · · · · · · · · · · · · · · · · ·				
Tributary(ies) Town	Creek			All and		Start and a start and a start				
HUC# 12090206	Stream r	niles (est.) 0.50		Con Con	1/3 2 -					
Drainage area: squa	re miles, est 0.02	or acreage, est.	14	965	110	Sun Stranger				
Social vulnerability	ndex 0.1			in the	the second					
Other Channel Imp	rovements/erosion pr	otection		4	290					

Town Creek is eroding on the downstream side of Orange Street. Localized scour is occurring at the outfall and along this steeper section of the channel threatening existing utilities.

Population at risk 2

Structures at risk 3

Critical facilities at risk 0 (miles) 0.01

Farm/Ranch land impacted (acres) -

## Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

## **Estimated Study Cost**

Cost \$50,000

Flood Mana	agement Eval	TUDY LO	Lower Colorado-Lavaca REGIONAL FLOOD				
Title Crockett St south of	Fravis		ID# 101000056	P	LANNING G	ROUP	
Sponsor (name of entity) Fro	edericksburg (Municipality)		Commitment Yes	S	REGION 10		
Technical committee recommittee	mend TBD	RFPG recom	mend TBD				
Study Type Other							
Problem Area			N	The Ast	19 (19 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	END O	
City Fredericksburg	County Gillespie			290			
Watershed Name Barons Cr	eek			A STON		HIS CONTRACTOR	
Tributary(ies) Barons Creek			Wo		W Charles	a about	
HUC# 12090206	Stream miles (est.) TBD		7.00	24.0	Contraction of the second	10	
Drainage area: square miles	, est 0.01 or acreage, est.	. 7	Barons Cree			HUND	
Social vulnerability index 0.2	1		and the	6498	Fredericksbu	<b>IIG</b>	
Other Drainage System Imp	rovements				ES PESO	6 4 10 5 1	

The storm sewer system needs to be created to capture flow with curb/drop inlets to mitigate flows. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

Farm/Ranch land impacted (acres) -

Roadway(s) impacted (miles)

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$100,000

To Dr. A

Flo	od N	/Janag	gem	Lower Colorado-Lavaca REGIONAL FLOOD				
Title	Cross Mou	untain West				ID# 10100005	57	PLANNING GROUP
Sponso	or (name o	f entity) Frede	ericksburg	(Municipality)		Commitment	Yes	REGION 10
Technic	cal commit	tee recomme	nd TBD		RFPG recor	mmend TBD		
Study	Туре	Other						
Proble	em Area					N		
City Fr	redericksb	urg	Со	unty Gillespie				
Waters	hed Name	Barons Creel	k				La	H
Tributa	ry(ies) Un	named Tribut	ary				a person	
HUC#	1209020	6	Stream	miles (est.) TBD				
Draina	ge area: sq	uare miles, es	st 0.01	or acreage, est.	8		1000	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE
Social v	vulnerabilit	ty index 0.1				ven	O	CONTRACT PROVIDENCE
Other	Drainage S	System Improv	vements			Ue D	anua	N Milam St

Drainage channel is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk -TBD

Structures at risk -TBD

Critical facilities at risk -TBD

Farm/Ranch land impacted (acres) -TBD

Roadway(s) impacted (miles)

-TBD

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, rightof-way needs, and constructability).

#### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Flood	Manag	geme	REGIONAL FLOOD				
Title N Milan	itle N Milam at West Travis						PLANNING GROUP
Sponsor (name	of entity) Frede	ricksburg (	Municipality)		Commitment	Yes	REGION 10
Technical comm	nittee recomme	nd TBD		RFPG recon	nmend TBD		
Study Type	Other						
Problem Are	а				N		
City Frederick	sburg	Cour	nty Gillespie			on	
Watershed Nar	ne Barons Creek	(				H.D.	
Tributary(ies)	own Creek				1100	\$	5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
HUC# 12090	206	Stream m	iles (est.) TBD			A.S. A	
Drainage area:	square miles, es	t 0.01	or acreage, est.	5		A State	27 20 × 12 0 × 19 0 ×
Social vulnerab	ility index 0.1						al and the second and the
Other Drainag	e System Improv	rements					North A Contraction

The storm sewer system and curb inlets need to be added and upgraded. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk -TBD

Structures at risk -TBD

Farm/Ranch land impacted (acres) -TBD Roadway(s) impacted (miles)

Critical facilities at risk -TBD

-TBD

## Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$250,000

1 1

#### Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP** Title ID# 101000122 Carriage Hills Sponsor (name of entity) Fredericksburg (Municipality) Commitment **REGION 10** Yes Technical committee recommend TBD RFPG recommend TBD Study Type Other **Problem Area** City Fredericksburg County Gillespie Watershed Name Barons Creek Tributary(ies) Unnamed Tributary HUC# 12090206 Stream miles (est.) TBD Drainage area: square miles, est 0.02 or acreage, est. 16 Social vulnerability index 0.1 Other Channel Improvements

## **Flood Risk Description**

The area of concern lacks a storm drain system and stormwater is conveyed via streets. The area has experienced excessive flow depth and velocity, and channel erosion. The city has identified local drainage improvements including adding curbs, constructing a new channel, increasing the capacity of an existing pond, and replacing the pond outlet structure.

Population at risk -TBD

Structures at risk -TBD

Critical facilities at risk -TBD

-TBD

Farm/Ranch land impacted (acres) -TBD

## Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

## Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

## **Estimated Study Cost**

Flc	od N	/lanag	<u>zem</u> e	Lower Colorado-Lavaca REGIONAL FLOOD				
Title	Post Oak S	Subdivision				ID# 10100012	23	PLANNING GROUP
Sponse	or (name of	fentity) Fred	ericksburg	(Municipality)		Commitment	Yes	REGION 10
Techni	cal commit	tee recomme	nd TBD		RFPG recon	nmend TBD		
Study	/ Туре	Other						
Probl	em Area					N	and the second	W WINGCREST KO
City F	redericksbu	urg	Cou	unty Gillespie			C. A.M.	
Water	shed Name	Muesebach	Creek - Pe	dernales River			the la	
Tributa	ary(ies) Un	named Tribut	ary					THE THERE IS A CONTRACT OF THE OWNER
HUC#	1209020	6	Stream ı	miles (est.) TBD				A CONTRACTOR OF A CONTRACTOR O
Draina	ge area: sq	uare miles, e	st 0.13	or acreage, est.	84			NEED TO CAR
Social	vulnerabilit	y index 0.1						
Other	Roadway/	Crossing Impr	ovements	/ Channel Improver	nents		Pyka Br	16 Bille

The existing crossing is undersized and overtops. The proposed improvements include improving the channel, raising the road, and adding multi-box (6) culvert. The existing road is a 2-lane road with an average daily traffic count of 265.

Population at risk -TBD

Structures at risk -TBD

Farm/Ranch land impacted (acres) -TBD

Critical facilities at risk -TBD -TBD

### Scope of Study

Conduct a study to evaluate the area. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### **Estimated Study Cost**

Cost \$150,000

#### Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP** Title ID# 101000124 Windmill Oaks Subdivision Sponsor (name of entity) Fredericksburg (Municipality) Commitment **REGION 10** Yes Technical committee recommend TBD RFPG recommend TBD Study Type Other **Problem Area** City Fredericksburg County Gillespie Watershed Name Muesebach Creek - Pedernales River Tributary(ies) Unnamed Tributary HUC# 12090206 Stream miles (est.) TBD Pyka Rd Drainage area: square miles, est 0.00 or acreage, est. 1 Social vulnerability index 0.1 Other Install Flood Early Warning System

## **Flood Risk Description**

A private detention pond on the north side of Pyka Road combines with local drainage to overtop Pyka Road. Roadway/crossing improvements are not feasible.

Population at risk -TBD

Structures at risk -TBD

Farm/Ranch land impacted (acres) -TBD

Critical facilities at risk -TBD ed (miles) -TBD

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

Roadway(s) impacted (miles)

#### **Related Goal(s)**

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$15,000

#### Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP** Title ID# 101000059 Repair of Little Barton Creek Dam Commitment **REGION 10** Sponsor (name of entity) Dripping Springs (Municipality) Yes Technical committee recommend TBD RFPG recommend TBD Study Type Other **Problem Area** City Dripping Springs County Hays Watershed Name Headwaters Barton Creek Tributary(ies) Little Barton Creek HUC# 12090205 Stream miles (est.) 0.50 Drainage area: square miles, est 0.00 or acreage, est. 2 Social vulnerability index 0.17 Other Dam Improvements

## **Flood Risk Description**

Dripping Springs Park Dam is a small earthen embankment dam with earthen spillway upstream of HWY 12. The city has identified the need to work with FEMA to evaluate and remediate the dam.

Population at risk 0

Structures at risk 0

Critical facilities at risk 0

#### Farm/Ranch land impacted (acres) 2

Scope of Study Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, rightof-way needs, and constructability).

Roadway(s) impacted (miles)

## Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

## **Estimated Study Cost**

Flc	od N	lanag	eme	R	ower EG	Colo ON	orado-	-Lav	/aca						
Title	tle Floodplain/floodway audit							ID# 101000060				NGG	RU	UP	
Spons	or (name of	entity) Hays (N	/lunicipal	ity)		Commit	ment	Yes			REG	ION 10			
Techni	cal committ	ee recommend	TBD		RFPG recom	mend T	BD								
Study	у Туре	Project Planni	ng												
Probl	em Area						1			A HARD AND LE			E	R O	
City H	lays		Cou	nty Hays				1 there							
Water	shed Name	Bear Creek								and a second	14	ag		-12	P.
Tributa	ary(ies) Unr	named Tributar	у			2.00	JA-		****			e Ne	1	THE A	
HUC#	12090205	5	Stream m	niles (est.) TBD			1.			Hays	2	st D	or D	rryl	res
Draina	ge area: squ	uare miles, est	0.21	or acreage, est.	135					S. S. S.	en l	<b>E</b>		<b>P</b>	Dr
Social vulnerability index 0.17								- An	and a		M	7 )		Range	r Dr
Other	Watershed	Study							N	Southern	Canyo				

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 0

Structures at risk 1

Farm/Ranch land impacted (acres) 4

Critical facilities at risk 0

0.04

#### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$25,000

Flc	od N	<b>Aanage</b> r	Lower Colorado-Lavaca <b>REGIONAL FLOOD</b>				
Title	Various St	reets - Construct sc	our and erosion pr	otection for	ID# 1010007	79	PLANNING GROUP
Sponse	or (name o	f entity) <mark>Austin (Mu</mark>	inicipality)		Commitment	Yes	REGION 10
Techni	cal commit	tee recommend T	BD	RFPG reco	mmend TBD		
Study	/ Туре	Other					
Probl	em Area				N	Constant and	Cedar Park Round Rock
City A	ustin		County Hays,Travi	s,Williamson			
Water	shed Name	Multiple Watershe	eds			CA	
Tributa	ary(ies) Un	named Tributary				00	
HUC#	1209020	5,12070205 Stre	am miles (est.) TB	C	AL		
Draina	ge area: sq	uare miles, est 279	.33 or acreage,	est. 178,771			Austin
Social	vulnerabilit	ty index -					
Other	Roadway/	Crossing Improvem	ents			G	

Existing bridges and culverts have high scour potential. The proposed improvements include constructing scour and erosion protection.

Population at risk 62,070

Structures at risk 5,696

Farm/Ranch land impacted (acres) 7,306

s at risk 5,696

Critical facilities at risk 0

111.76

#### Scope of Study

Conduct a study to evaluate scour potential at existing crossings. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$200,000

Flood Management Evaluation	Lower Colorado-Lavaca REGIONAL FLOOD	
Title Citywide Storm Drain Infrastructure Modeling	ID# 101000158	PLANNING GROUP
Sponsor (name of entity) Austin (Municipality)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG recom	nmend TBD	
Study Type Watershed Planning		
Problem Area	N	Cedar Park Round Rock
City Austin County Hays,Travis,Williamson		
Watershed Name Multiple Watersheds	ACO	
Tributary(ies) Unnamed Tributary	02	
HUC# 12090205,12070205 Stream miles (est.) TBD	AN AN	
Drainage area: square miles, est 279.33 or acreage, est. 178,771		Austin
Social vulnerability index -		
Other Drainage System Improvements	5	

1D and 2D models are needed for the entire City to design upgrades to the existing storm drain systems. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 62,070

Structures at risk 5,696

Farm/Ranch land impacted (acres) 7,306

ures at risk 5,696

Critical facilities at risk 0

111.76

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$500,000

Flood	Manage	ment Eval	Lower Colorado-Lavaca <b>REGIONAL FLOOD</b>					
Title Devel	op rainwater diversion	n project through town		ID# 1010000	53	PLANNING GROUP		
Sponsor (nam	ne of entity) <mark>Edna (Mu</mark>	unicipality)		Commitment	Yes	REGION 10		
Technical con	nmittee recommend	TBD	RFPG recom	nmend TBD				
Study Type	Project Planning	5						
Problem A	rea			N				
City Edna		County Jackson			822			
Watershed N	ame Post Oak Branch	- Dry Creek				59		
Tributary(ies)	Dry Creek			Jacob Market	the second second	ALC: NO.		
HUC# 1210	0101,12100102 St	ream miles (est.) TBD				Edna		
Drainage area	a: square miles, est 4.	.06 or acreage, est.	2,601		6			
Social vulnera	bility index 0.51			19	A STAN			
Other Draina	ge System Improvem	ents			8			

The existing drainage system through town is undersized and the area has experienced excessive flow depth and velocity, has structures at risk, historical flood damage, and channel erosion.

Population at risk 2,503

Structures at risk 1,223

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 137

Deeduue

Roadway(s) impacted (miles) 26.26

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Flood Management Evaluat	Lower Colorado-Lavaca REGIONAL FLOOD	
Title County Road 480	ID# 101000066	PLANNING GROUP
Sponsor (name of entity) Jackson (County)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG	recommend TBD	
Study Type Other		
Problem Area	N	
City Palacios County Jackson		
Watershed Name Matagorda Bay, East Carancahau Creek - Frontal		
Tributary(ies) Unnamed Tributary		
HUC# 12100401 Stream miles (est.) TBD		Road
Drainage area: square miles, est 0.06 or acreage, est. 41		
Social vulnerability index 0.51		l l l l l l l l l l l l l l l l l l l
Other Roadway/Crossing Improvements		

The existing crossing is undersized and overtops. The proposed improvements include the addition of a headwall. The existing road is a 2-lane road with an average daily traffic count of 36.

Population at risk 11

Structures at risk 10

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 15

Roadway(s) impacted (miles) 0.61

#### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### **Estimated Study Cost**

Flo	od N	/lanag	eme	ent Evalı	STUDY	Lower Colorado-Lavaca REGIONAL FLOOD		
Title	Palmetto I	Bend Spillway				ID# 10100012	29	PLANNING GROUP
Sponso	or (name of	f entity) Jackson	า (County	()		Commitment	Yes	REGION 10
Techni	cal commit	tee recommend	ל דBD		RFPG recon	nmend TBD		
Study	Туре	Other						
Probl	em Area					N	10 and and and	
City E	dna		Cour	nty Jackson			Harry	
Waters	shed Name	Chicolete Cree	k - Navid	ad River				H H
Tributa	ary(ies) Na	vidad River						
HUC#	1210010	2	Stream n	niles (est.) 0.00		Y	1	3131
Draina	ge area: sq	uare miles, est	0.12	or acreage, est.	79		PL	
Social	vulnerabilit	ty index 0.51					and the	65 m 3 m 5 m
Other	Dam Impro	ovements				Ø		A Revenue of the second s

Lake Texana is a large earthen embankment dam with a multiple-gate concreate spillway that is traversed by FM 3131. The dam has limited ability to quickly deploy/install stop-logs in front of the gates in an emergency and has identified the need to develop an emergency stop log deployment system.

Population at risk 0

Structures at risk 0

Farm/Ranch land impacted (acres) 13

Critical facilities at risk 0 0.10

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to determine how stop log installation could impact dam operations, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$250,000

Flc	od N	/lanag	<u></u> geme	Lower Colorado-Lavaca REGIONAL FLOOD				
Title	Citywide D	Prainage Study	y			ID# 1010000	92	PLANNING GROUP
Sponse	or (name of	entity) Victo	ria (Munici	pality)		Commitment	Yes	REGION 10
Technical committee recommend TBD RFPG recom						nmend TBD		
Study	у Туре	Project Plan	ning					
Probl	em Area					N		
City V	/ictoria		Cour	nty Jackson,De				
Water	shed Name	Multiple Wat	tersheds					HAND THE REAL PROPERTY OF
Tributa	ary(ies) Uni	named Tributa	ary					
HUC#	1210020	4,12100402	Stream m	niles (est.) TBD			- Con	Victoria
Draina	ge area: sq	uare miles, es	t 885.81	or acreage, est.	566,920			
Social	vulnerabilit	y index -						
Other	Watershed	l Study					-	

The City has multiple local drainage problems and portions of the City are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 3,238

Structures at risk 776

Farm/Ranch land impacted (acres) 37,406

Critical facilities at risk 0

51.50

### Scope of Study

The Citywide study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

## Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

## **Estimated Study Cost**

Cost \$250,000

Flood Management Evaluatio	Lower Colorado-Lavaca REGIONAL FLOOD			
Title Various Streets - Increase dimensions of drainage culverts in	ID# 101000093	PLANNING GROUP		
Sponsor (name of entity) Victoria (County)	Commitment Yes	REGION 10		
Technical committee recommend TBD RFPG recor	mmend TBD			
Study Type Other Problem Area				
City Victoria County Jackson,De	N			
Watershed Name Multiple Watersheds		HI AND		
Tributary(ies) Unnamed Tributary		and the second of the second s		
HUC# 12100204,12100402 Stream miles (est.) TBD		Victoria		
Drainage area: square miles, est 885.81 or acreage, est. 566,920				
Social vulnerability index -				
Other Roadway/Crossing Improvements				

The existing crossing is undersized and overtops. The proposed improvements include upsizing existing culverts in flood prone areas.

Population at risk 3,238

Structures at risk 776

Farm/Ranch land impacted (acres) 37,406

Critical facilities at risk 0

51.50

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### **Estimated Study Cost**

Flood Management Evaluatio	Lower Colorado-Lavaca REGIONAL FLOOD	
Title Upgrade/Raise various bridges above current Base Flood	ID# 101000094	PLANNING GROUP
Sponsor (name of entity) Victoria (County)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG reco	mmend TBD	
Study Type Project Planning		
Problem Area	N	
Watershed Name Multiple Watersheds		HI HI
Tributary(ies) Unnamed Tributary		
HUC# 12100204,12100402 Stream miles (est.) TBD		Victoria
Drainage area: square miles, est 885.81 or acreage, est. 566,920		
Social vulnerability index -		
Other Roadway/Crossing Improvements		
Flood Risk Description		

Existing bridges are below current BFE levels. The proposed improvements include raising existing bridges above BFE.

Population at risk 3,238

Structures at risk 776

Farm/Ranch land impacted (acres) 37,406

Critical facilities at risk 0

51.50

## Scope of Study

Conduct a study to evaluate raising the existing bridge. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

## Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

## **Estimated Study Cost**

Cost \$250,000

Flc	od N	/lanage	eme	Lower Colorado-Lavaca REGIONAL FLOOD							
Title	e Sandy Oaks Subdivision Flood Event Study						10100011	18	PLANNING GROUP		
Sponso	or (name of	entity) Colorad	lo (Count	y)		Comm	nitment	Yes	REGION 10		
Techni	cal commit	ee recommend	TBD		RFPG recon	nmend	TBD				
Study	у Туре	Other									
Probl	Problem Area										
City C	olumbus		Cour	ity Jackson,Lavaca	,Wharton,Co	ol					
Waters	shed Name	Multiple Wate	rsheds								
Tributa	ary(ies) Unr	named Tributar	у			2.05			and the second s		
HUC#	12090302	2,12090401	Stream m	iles (est.) TBD					The second second		
Draina	ge area: sq	uare miles, est	970.58	or acreage, est.	621,174				Ros		
Social	vulnerabilit	y index -									
Other	Watershed	Study									

The subdivision has multiple local drainage problems and portions of the subdivision are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 4,259

Structures at risk 2,103

Farm/Ranch land impacted (acres) 105,662

Critical facilities at risk 0

125.76

#### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Flood Management Evaluation	n (FME) STUDY Lower Colorado-Lavaca REGIONAL FLOOD					
Title Various Streets - Raise road and increase dimensions of	ID# 101000106 PLANNING GROUP					
Sponsor (name of entity) Blanco (County)	Commitment Yes REGION 10					
Technical committee recommend TBD RFPG recom	mmend TBD					
Study Type Project Planning						
City Blanco County Kendall Hays Gillespie Blan						
Watershed Name Multiple Watersheds						
Tributary(ies) Unnamed Tributary						
HUC# 12090201,12090205 Stream miles (est.) TBD	Fredericksburg					
Drainage area: square miles, est 710.98 or acreage, est. 455,029						
Social vulnerability index -						
Other Roadway/Crossing Improvements	San Marcos					

The existing crossings are undersized and overtop. The existing crossings are multiple low water crossings. The proposed improvments include upgrading and raising low water crossings.

Population at risk 665

Structures at risk 294

Farm/Ranch land impacted (acres) 25,476 Roadway(s) impacted (miles)

Critical facilities at risk 0 ed (miles) 15.31

### Scope of Study

Conduct a study to evaluate upsizing the existing low water crossing. Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

### **Estimated Study Cost**

Flood Management Evaluation	n (FME) <sub>study</sub>	Lower Colorado-Lavaca REGIONAL FLOOD
Title Detection and Warning Beacons	ID# 101000179	PLANNING GROUP
Sponsor (name of entity) Kendall (County)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG recom	nmend TBD	
Study Type Other		
Problem Area	N	
City Kendall County Kendall,Kerr,Gillespie,Blanc		
Watershed Name Bear Creek - Pedernales River, South Grape Creek,		
Tributary(ies) Unnamed Tributary		and the second sec
HUC# 12090206,12100201 Stream miles (est.) TBD		
Drainage area: square miles, est 660.51 or acreage, est. 422,724		and the second
Social vulnerability index -	Constant Product	
Other Install Flood Early Warning System		

The county has identified multiple (unknown number) roadway/crossings that overtop and where structural improvements are not feasible.

Population at risk 0

Structures at risk 1

Farm/Ranch land impacted (acres) 637

Critical facilities at risk 0 Roadway(s) impacted (miles) 0.21

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

#### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger. 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$15,000

Flood Manage	ment Evaluat	STUDY	Lower Colorado-Lavaca <b>REGIONAL FLOOD</b>			
Title Countywide Floodplain Map	) Update	ID# 10100017	77	PLANNING GROUP		
Sponsor (name of entity) Gillespie	(County)	Commitment	Yes	REGION 10		
Technical committee recommend	TBD RFPG	recommend TBD				
Study Type Watershed Planning Problem Area						
City Marble Falls	County Kendall,Kerr,Gillespie	a,Blanco	日本の後			
Watershed Name Multiple Watersh	neds		<b>//</b> //			
Tributary(ies) Unnamed Tributary						
HUC# 12090201,12090204 Str	ream miles (est.) TBD		and the second	The state of the		
Drainage area: square miles, est 1,057.22 or acreage, est. 676,621						
Social vulnerability index -			and the fa	Johnson		
Other Watershed Study				National Historical Park		

The existing floodplain maps are outdated and do not represent the structures at risk, the areas that have experienced flood damages and channel erosion.

Population at risk 1,313

Structures at risk 863

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 71,867

Roadway(s) impacted (miles) 102.20

## Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas.

#### Related Goal(s)

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

#### **Estimated Study Cost**

Cost \$250,000



The city has identified numerous erosion locations along the Llano River impacting Lake Junction and will undertake a study to develop and implement projects to prevent erosion.

Population at risk 252

Structures at risk 130

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 427

Roadway(s) impacted (miles)

pacted (miles) 6.63

#### Scope of Study

Study will include hydrologic and hydraulic modeling, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Cost \$200,000

#### Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca **REGIONAL FLOOD PLANNING GROUP** ID# 101000183 Title South Polk Street Study Sponsor (name of entity) Giddings (Municipality) Commitment **REGION 10** Yes Technical committee recommend TBD RFPG recommend TBD Study Type Watershed Planning **Problem Area** City Giddings County Lee Watershed Name Upper Rabbs Creek Tributary(ies) Unnamed Tributary HUC# 12090301 Stream miles (est.) TBD Drainage area: square miles, est 0.08 or acreage, est. 49 Social vulnerability index 0.42 Other Watershed Study

### **Flood Risk Description**

The area has multiple local drainage problems and portions of the region are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 25

Structures at risk 17

es) - Roadway(s) impacted (miles)

Critical facilities at risk 0 ed (miles) 0.32

Farm/Ranch land impacted (acres) -

Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### **Related Goal(s)**

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

### **Estimated Study Cost**

Cost \$150,000

Flood Management Evaluation (FME) STUDY							Lower Colorado-Lavaca	
Title	Title Llano River Channel Maintenance						70	PLANNING GROUP
Sponso	or (name of	entity) Llanc	o (Municipal	ity)		Commitment	Yes	REGION 10
Technic	cal commit	tee recomme	end TBD		RFPG recon	nmend TBD		
Study	Туре	Project Plan	ning					
Proble	em Area					N	0	16
City Llano County Llano							(Line)	
Waters	hed Name	Johnson Cre	ek - Llano R	iver, Pecan Creek -	Llano River,			
Tributa	ry(ies) Lla	no River				29	1	
HUC# 12090204 Stream miles (est.) TBD							1 200	20
Draina	ge area: sq	uare miles, es	st 5.76	or acreage, est.	3,685		A STATE	River Lake
Social v	/ulnerabilit	y index 0.19						Llano
Other	Channel In	nprovements				152		

The city has identified numerous maintenance issues in the Johnson Creek, Pecan Creek, Oatman Creek, and Wrights Creek watersheds including storm drain cleaning and channel maintenance/erosion that contribute to local flooding. The city will develop a program to improve maintenance.

Population at risk 549

Structures at risk 181

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 464

Roadway

Roadway(s) impacted (miles) 4.11

#### Scope of Study

Study will include hydrologic and hydraulic modeling of preliminary design of improvements (if needed0, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Flood Management Evaluation (FME) STUDY							Lower Colorado-Lavaca <b>REGIONAL FLOOD</b>	
Title	Comanche	Rancherias Subo	division			ID# 1010000	73	PLANNING GROUP
Sponse	or (name of	entity) Llano (Co	ounty)			Commitment	Yes	REGION 10
Techni	cal commit	tee recommend	TBD		RFPG recon	nmend TBD		
Study	туре	Project Planning	g					
Probl	em Area					N		
City L	lano		Coun	ity Llano			112 51	
Watershed Name Honey Creek - Lake Lyndon B Johnson							A BEAL	
Tributa	ary(ies) Mo	ss Creek					A DE al	and the second s
HUC# 12090201,12090204 Stream miles (est.) TBD							Concellant of	CALL ATTING & HINGE
Draina	ge area: sq	uare miles, est 5	.79	or acreage, est.	3,703			
Social	vulnerabilit	y index 0.19				a for the second second		
Other	Watershec	l Study						

The subdivision has multiple local drainage problems and portions of the subdivision are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 17

Structures at risk 20

\_\_\_\_\_

Critical facilities at risk 0

0.78

Farm/Ranch land impacted (acres) 216

#### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

Roadway(s) impacted (miles)

#### Related Goal(s)

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Flood Management Evaluation (FME) STUDY								, Lower Colorado-Lavaca REGIONAL FLOOD		
Title (	Clean out a	and deepen th	e stor	mwater drain	age ditch	es in key	ID# 101000071			PLANNING GROUP
Sponsor	· (name of	entity) Sunris	e Bead	ch Village (Mu	nicipality	<i>י</i> )	Comm	nitment	Yes	REGION 10
Technica	al commit	tee recommen	d TB	D		RFPG recon	nmend	TBD		
Study <sup>-</sup> Proble	Type m Area	Project Plann	ing							0
City Sunrise Beach Village County Llano, Burnet							N	11.5		
Watershed Name Sandy Creek - Lake Lyndon B Johnson									Sunrise Beach Gran	
Tributary(ies) Unnamed Tributaries					Village		Village			
HUC# 12090201 Stream miles (est.) TBD							15		And	
Drainage	e area: sq	uare miles, est	2.64	or acrea	ige, est.	1,688	ALC: NO	No.	1. 14	
Social vulnerability index -										
Other C	Channel Im	nprovements							2	Lake Lyndon B Johnson

Various drainage channels within the city (tributaries to Lake LBJ) are undersized resulting in local flooding (flow depth and velocity) and channel erosion.

Population at risk 226

Structures at risk 330

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 101

Roadway(s) impacted (miles) 0.83

#### Scope of Study

Study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall), preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### Related Goal(s)

5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

#### Flood Management Evaluation (FME) STUDY Lower Colorado-Lavaca **REGIONAL FLOOD** PLANNING GROUP ID# 101000075 Title Airport Drainage Improvements **REGION 10** Sponsor (name of entity) Palacios (Municipality) Commitment Yes Technical committee recommend TBD RFPG recommend TBD Study Type Other **Problem Area** City Palacios County Matagorda Watershed Name Tres Palacios River - Frontal Tres Palacios Bay Tributary(ies) Reed Creek, Horn Creek HUC# 12100401 Stream miles (est.) TBD Municipal Airport Drainage area: square miles, est 0.70 or acreage, est. 450 County Road 316 State Highway 35 S Social vulnerability index 0.84 Other Watershed Study

## **Flood Risk Description**

The airport has local drainage problems and portions of the area are at risk of flooding. The area has experienced excessive flow depth and velocity, has structures at risk, historical flood damages, and channel erosion.

Population at risk 2

Structures at risk 3

Critical facilities at risk 0

Roadway(s) impacted (miles)

Farm/Ranch land impacted (acres) 4

#### Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas, preliminary design of improvements, risk reduction analysis, verification of no adverse impacts, preparation of cost estimates and a benefit-cost-analysis, and an evaluation of potential constraints (environmental, utility conflicts, right-of-way needs, and constructability).

#### **Related Goal(s)**

3.2 Increase the number of entities that have evaluated priority flood risk areas and flood risk reduction measures (e.g., alternatives analysis and preliminary engineering). 5.1 Reduce the number of structures and critical infrastructure that are at high risk of repetitive loss through property/easement acquisitions, relocations, floodproofing and/or elevation. 6.1 Reduce the number of structures and critical facilities that are at high risk of repetitive loss through the implementation of structural flood mitigation projects.

#### **Estimated Study Cost**

Flood Management Evaluatio	Lower Colorado-Lavaca REGIONAL FLOOD						
Title Update Flood Insurance Study & Flood Insurance Rate Maps	ID# 101000077	PLANNING GROUP					
Sponsor (name of entity) Matagorda (County)	Commitment Yes	REGION 10					
Technical committee recommend TBD RFPG recom	nmend TBD						
Study Type Watershed Planning							
Problem Area							
City Matagorda County Matagorda, Jackson, Brazoria							
Watershed Name Multiple Watersheds		Bay City					
Tributary(ies) Unnamed Tributary	and the second						
HUC# 12090402,12090302 Stream miles (est.) TBD							
Drainage area: square miles, est 1,136.08 or acreage, est. 727,093							
Social vulnerability index -							
Other Watershed Study							

The existing FIS and FIRMS are outdated and do not represent the structures at risk, the areas that have experienced flood damages and channel erosion.

Population at risk 9,441

Structures at risk 7,016

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 124,179

Roadway(s) impacted (miles) 183.22

## Scope of Study

The flood study will include hydrologic and hydraulic modeling (with Atlas 14 rainfall) to identify priority flood risk areas.

#### **Related Goal(s)**

3.1 Increase the number of entities that have updated watershed models and floodplain maps to reflect current conditions, including as applicable Atlas 14 (Volume 11) revised rainfall data. 3.3 Increase the number of entities that have digital flood insurance rate maps (DFIRMs) that reflect current conditions.

#### **Estimated Study Cost**

Cost \$250,000

Flood Management Evaluation	Lower Colorado-Lavaca REGIONAL FLOOD	
Title Tres Palacios River	ID# 101000076	PLANNING GROUP
Sponsor (name of entity) Matagorda (County)	Commitment Yes	REGION 10
Technical committee recommend TBD RFPG recom	nmend TBD	
Study Type Other		
Problem Area	N	
City Matagorda County Matagorda, Jackson, Wharto	on	
Watershed Name Multiple Watersheds		
Tributary(ies) Tres Palacios River		
HUC# 12090302,12100401 Stream miles (est.) TBD		Bay City
Drainage area: square miles, est 365.91 or acreage, est. 234,181		
Social vulnerability index -		
Other Install Flood Early Warning System		

The county has identified multiple (unknown number) roadway/crossings on the Tres Palacios River that overtop and where structural improvements are not feasible.

Population at risk 4,554

Structures at risk 1,805

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 28,386

Roadway(s) impacted (miles) 75.83

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

#### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$50,000

Flood Management Evaluation	n (FME) STUDY Lower Colorado-Lavaca REGIONAL FLOOD
Title Various Streets	ID# 101000149 PLANNING GROUP
Sponsor (name of entity) Menard (Municipality)	Commitment Yes REGION 10
Technical committee recommend TBD RFPG recom	mmend TBD
Study Type Other	
Problem Area	N
City Menard County Menard	
Watershed Name Menard Irrigation Company Canal - San Saba River	
Tributary(ies) Menard Irrigation Company Canal, San Saba River	190
HUC# 12090109 Stream miles (est.) TBD	
Drainage area: square miles, est 2.19 or acreage, est. 1,401	
Social vulnerability index 0.36	Menard
Other Install Flood Early Warning System	HORE AND SOL

The city has identified multiple (unknown number) low water crossings that overtop and where roadway/crossing improvements are not feasible.

Population at risk 971

Structures at risk 518

Critical facilities at risk 0

Farm/Ranch land impacted (acres) 243

Roadway(s) impacted (miles)

pacted (miles) 13.93

#### Scope of Study

Evaluate the type of flood early warnings system (flashers, barricades, signage) and communication systems requirements for the installation and long-term maintenance of the system. Include hydrologic and hydraulic modeling (if needed) including depth, duration and frequency of flooding, daily traffic counts, and length of detour (minutes),

#### Related Goal(s)

2.1 Increase the number of communities with warning and emergency response capabilities, or which participate in regional flood warning systems (e.g., LCRA Hydromet, City of Austin Flood Early Warning System) that can detect flood threats in real time and provide timely warning of impending flood danger.
 6.2 Increase the number of entities that mitigate flood risk at vulnerable roadways or waterways (e.g., low-water crossings, irrigation canals).

#### **Estimated Study Cost**

Cost \$50,000