Amending Grimes County Floodplain Ordinance Title ID# 062000035 Sponsor Grimes (County)



RFPG recommend? -Reason for Recommendation **Strategy Details** Regulatory and Guidance Strategy type Strategy description Prohibit the building of any new structures located down-stream of high hazard dams by amending the floodplain ordinance. Associated FME's Associated FMP's Associated FMS's 799 Drainage area (mi², est.) Watershed HUC# (if known) 120401010101,120401010301,120401010302,120401010303,1204010101 County Grimes **Existing 100-Year Flood Risk** # of structures 145 Critical facilities 0 Population at risk 120 Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) 151 Roadway(s) impacted (miles) 11 Number of low water crossings Historical road closures 1

100-Year Flood Risk Reduction

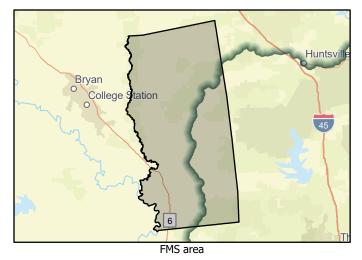
Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$20,000 Amount of available funding % Nature-Based





Brazoria County Dam and Levee Failure Outreach and Education campaign

SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGIONAL FLOOD PLANNING GROUP

ID# 062000034 Sponsor Brazoria (County)

RFPG recommend? - Reason for Recommendation

Strategy Deta	ails
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Title

Strategy type Education and Outreach

Strategy description Implement an outreach and education campaign to educate the public on mitigation techniques for dam and levee failure to

reduce loss of life and property.

Associated FME's - Associated FMP's -

Associated FMS's -

Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040100

1,482

Other?

Drainage area (mi², est.)

0

County Brazoria

Existing 100-Year Flood Risk

Population at risk 65,547 # of structures 18,848 Critical facilities 248

Flood risk type: Riverine? - Coastal? - Local? - Playa?

Farm/Ranch land impacted (acres) 8,584 Roadway(s) impacted (miles) 328

Number of low water crossings 0 Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits - Reduction in # of road closures over 10 years

Impacts

Negative impacts? - Negative impacts description -

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$20,000 Amount of available funding - % Nature-Based -







Brazoria County Increased Cost of Compliance Education Title ID# 062000013 Sponsor Brazoria (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type **Education and Outreach**

Strategy description Implement campaign on public education of ICC (Increased Cost of Compliance) coverage.

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040100

Drainage area (mi², est.) 1,482

County

Brazoria

Existing 100-Year Flood Risk

of structures 18.845 Critical facilities 248 Population at risk 65,536 Flood risk type: Riverine? Coastal? Local? Playa? Other?

Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 8,577 328 0

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$20,000 Amount of available funding % Nature-Based







Regional view of FMS area

Brazoria County Non-structural Mitigation / Land Preservation Title ID# 062000032 Sponsor Brazoria (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description Up to 35,0000 acres of land could be purchased to help reduce the impacts of natrual hazards by converting the space to

floodwater storage, groundwater recharge, erosion, drought mitigation, in the form of public green space.

Associated FME's Associated FMP's -

Associated FMS's

120402040300,120402040200,120402040400,120402040100 Watershed HUC# (if known)

> County Brazoria

1,482

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 65,547	# of structures	18,848	Critical facilities 248	
Flood risk type: Riverine? -	Coastal? -	Local? -	Playa? - Other? -	
Farm/Ranch land impacted (acres) {	84	Roadway(s) impacted (miles	s) 328	
Number of low water crossings (Historical road closures	0	

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$65,000,000 Amount of available funding % Nature-Based







Regional view of FMS area

Title Brazoria County Structure Elevation

ID# 062000031 Sponsor Brazoria (County)



RFPG recommend? - Reason for Recommendation -

Strategy Details

Strategy type Property Acquisition and Structural Elevation

Strategy description Elevate structures in flood zone. Over 70% of these structures are pre-firm and do not meet current FEMA elevation standards.

FEMA estimates that over 400 structures may be substantially damaged and must be elevated to meet current standards

Associated FME's - Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040100

Drainage area (mi², est.)

County Brazoria

1,482

Existing 100-Year Flood Risk

of structures 18.848 Critical facilities 248 Population at risk 65,547 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 8,584 Roadway(s) impacted (miles) 328 Number of low water crossings Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr - Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) - Road removed from 100-yr (miles) - Low water crossings removed from 100-yr - Other benefits - Reduction in # of road closures over 10 years -

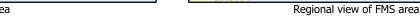
Impacts

Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$60,000,000 Amount of available funding - % Nature-Based -







City of Alvin CRS Application Title ID# 062000012 Sponsor Alvin (Municipality)



RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type

Other Strategy description

Apply and once accepted maintain and/or improve CRS status. Cost is time, data and preparation of a CRS application. Benefit,

if approved homeowner with flood insurance could receive a discount based on the City's CRS score.

Associated FME's

Associated FMS's

120402040200,120402040400,120402040100

Drainage area (mi², est.)

Watershed HUC# (if known)

County Brazoria

Existing 100-Year Flood Risk

Population at risk 21,551

of structures

3,428

Critical facilities 18

Flood risk type:

Riverine?

Coastal?

Local?

Associated FMP's -

Playa?

Other?

Farm/Ranch land impacted (acres) 176

Roadway(s) impacted (miles)

52

Number of low water crossings

Historical road closures

0

100-Year Flood Risk Reduction

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Water supply contributions? NO

Other benefits

of structures removed from 100-yr

Farm/Ranch land removed from 100-yr (acres) -

Low water crossings removed from 100-yr

Reduction in # of road closures over 10 years

Impacts

Negative impacts?

Negative impacts description

Water supply contribution description N/A

Estimated Cost

Strategy Cost

\$25,000

Amount of available funding

% Nature-Based







Regional view of FMS area

City of Alvin Full Time Floodplain Administrator Title ID# 062000061 Sponsor Alvin (Municipality)



RFPG recommend? -Reason for Recommendation

Strategy Details

Regulatory and Guidance Strategy type

Strategy description Hire a full-time floodplain administrator who can support CRS application, NFIP, mapping and community floodplain support. A

dedicated employee could help the community obtain CRS status and full time flood plain support.

Associated FME's Associated FMP's -

Associated FMS's Drainage area (mi², est.)

120402040300,120402040200,120402040400,120402040100 Watershed HUC# (if known)

> County Brazoria, Galveston, F

Existing 100-Year Flood Risk

Critical facilities 2,332 143.642 Population at risk 976,798 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) 5,993 Roadway(s) impacted (miles) 2,408

Number of low water crossings Historical road closures 89

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$100,000 Amount of available funding % Nature-Based







City of Bayou Vista Management Practices for Securing Windblown Debris in Title Canals.

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000050 Sponsor Bayou Vista (Municipality)

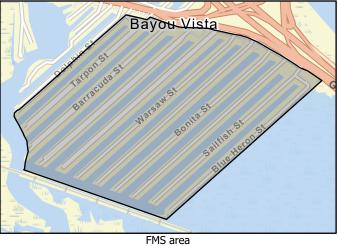
RFPG recommend? -		Reason	for Recommenda	ation -			
Strategy Details							
Strategy type	Infrastructu	ire Projects					
Strategy description	_			he level of intensit		ement plan to remove debris	throughout the cana
Associated FME's	-			A	Associated FMP	's -	
Associated FMS's	-					Dunimana aura (m.;² aat.)	0
Watershed HUC# (if known)	120402040	200				Drainage area (mi², est.)	0
						County	Galveston
Existing 100-Year Flood I	Risk						
Population at risk 1,502			# of structures	1,122		Critical facilities 3	
Flood risk type: Riverine	? -	Coast	al? -	Local? -		Playa? - Ot	ther? -
Farm/Ranch land impacted (acres) -			Roadway(s) impa	acted (miles)	8	
Number of low water crossin	igs -			Historical road cl	losures	-	
100-Year Flood Risk Redu	uction						
Population removed from 10	0-yr	-		# of structur	es removed fro	m 100-yr -	
Critical facilities removed fro	m 100-yr	-		Farm/Ranch	land removed	from 100-yr (acres) -	
Road removed from 100-yr (miles)	-		Low water c	rossings remove	ed from 100-yr	
Other benefits _				Reduction in	n# of road closu	ures over 10 years -	
Impacts							
Negative impacts?	-	Negative im	pacts description	-			
Water supply contributions?	NO	Water suppl	y contribution de	escription N/A			
Fstimated Cost							

Amount of available funding



\$100,000

Strategy Cost





The Woodlands

% Nature-Based

Beaumont

Regional view of FMS area

City of Bayou Vista Severe Weather Warning Systems Title ID# 062000028 Sponsor Bayou Vista (Municipality)



RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type Flood Measurement and Warning Strategy description Purchase and install severe weather warning systems Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040200 County Galveston

Existing 100-Year Flood Risk

of structures 1,121 Critical facilities 3 Population at risk 1,500 Flood risk type: Riverine? -Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) -Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

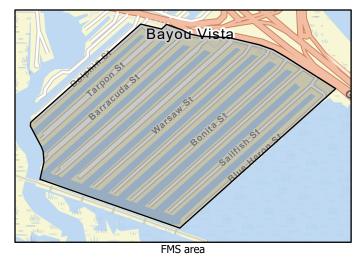
Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$35,000 Amount of available funding % Nature-Based





City of Bellaire Commercial Drainage Requirements Title



ID# 062000003 Sponsor Bellaire (Municipality)

RFPG recommend? -Reason for Recommendation

Strategy Details

Other Strategy type

Strategy description Develop Bellaire specific commercial drainage requirements.

Associated FME's Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120401040402,120401040401,120401040402,120401040401

County

Drainage area (mi², est.)

Harris

Existing 100-Year Flood Risk

of structures Critical facilities 71 Population at risk 37,604 5,879

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 71

Number of low water crossings Historical road closures 0

100-Year Flood Risk Reduction

Road removed from 100-yr (miles)

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Low water crossings removed from 100-yr

Reduction in # of road closures over 10 years

Impacts

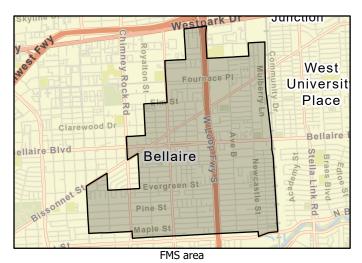
Other benefits

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$50,000 Amount of available funding % Nature-Based





Regional view of FMS area

City of Bellaire Flood Early Warning System Improvements Title



ID# 062000049 Sponsor Bellaire (Municipality)

RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type Flood Measurement and Warning

Strategy description Provide more flood-hardened rain and flood stage gages for better flood forecasting to determine if additional improvements

to Brays Bayou are possible beyond Project Brays to further increase capacity.

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) 120401040402,120401040401

County Harris

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Critical facilities 71 Population at risk 37,604 # of structures 5,879

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 71

Number of low water crossings Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

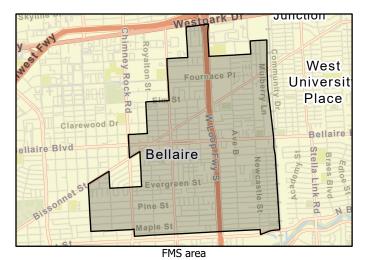
Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$150,000 Amount of available funding % Nature-Based





College Station

Regional view of FMS area

Title City of Bellaire Flood Rescue Plan

ID# 062000033 Sponsor Bellaire (Municipality)



RFPG recommend? - Reason for Recommendation
Strategy Details

Strategy type Preparedness

Strategy description Develop a plan to address rescues from one-story homes and older two-story homes. Develop a plan to evacuate disabled/physically impaired/elderly individuals from homes in advance of anticipated high rainfall events. (Bellaire Fire Department)

Associated FME's - Associated FMS's - Drainage area (mi², est.)

Watershed HUC# (if known)

120401040402,120401040401

County Harris

Existing 100-Year Flood Risk

Critical facilities 71 Population at risk 37,604 # of structures 5,879 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 71 Number of low water crossings Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Low water crossings removed from 100-yr

Reduction in # of road closures over 10 years

Impacts

Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$200,000 Amount of available funding - % Nature-Based -





College Station

6

The Woodlands

Houston

Beaumo

City of Bellaire Floodwater Public Awareness Initiatives Title

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000005 Sponsor Bellaire (Municipality)

RFPG recommend? -Reason for Recommendation

Strategy Details

Education and Outreach Strategy type

Strategy description Periodically distribute messages to residents warning of dangers of walking or playing in floodwaters. Develop a plan with local

schools to educate children to avoid walking, playing, or riding bicycles in floodwaters.

Associated FME's Associated FMP's -

Associated FMS's

120401040402,120401040401,120401040402,120401040401 Watershed HUC# (if known)

County Harris

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Critical facilities 71 Population at risk 37,604 # of structures 5,879

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 71

Number of low water crossings Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

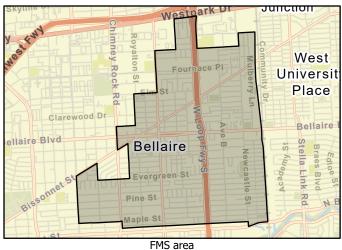
Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$50,000 Amount of available funding % Nature-Based





College Station

Title City of Bellaire Resident Property Support

ID# 062000002 Sponsor Bellaire (Municipality)



RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Other

Strategy description Ensure adequate city resources are in place to assist residents when applying for buy-out and elevation grants.

Associated FME's - Associated FMP's -

Associated FMS's -

Watershed HUC# (if known) 120401040402,120401040401,120401040402,120401040401

County Harris

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 37,604 # of structures 5,879 Critical facilities 71

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 71

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? - Negative impacts description -

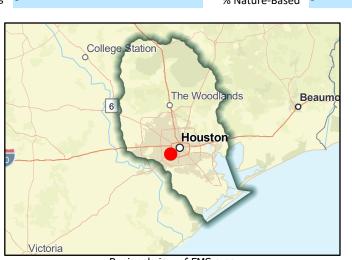
Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$50,000 Amount of available funding - % Nature-Based -







Regional view of FMS area

City of Bellaire Roadway and Drainage Improvements Title



ID# 062000001 Sponsor Bellaire (Municipality)

RFPG recommend? -Reason for Recommendation

Strategy Details

Associated FMS's

Flood risk type:

Other Strategy type

Strategy description Increase the size of existing storm water drainage culverts in Bellaire while continuing to utilize drainage impact when selecting

and designing roads to be reconstructed to strategically account for storage and conveyance.

Associated FME's Associated FMP's

Coastal?

120401040402,120401040401,120401040402,120401040401

County

Drainage area (mi², est.)

Harris

Other?

Existing 100-Year Flood Risk

Watershed HUC# (if known)

Critical facilities 71 Population at risk 37,604 # of structures 5,879

Local? Playa?

Roadway(s) impacted (miles)

71

Historical road closures 0

100-Year Flood Risk Reduction

Farm/Ranch land impacted (acres) 0

Number of low water crossings

Riverine?

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Other benefits

of structures removed from 100-yr

Farm/Ranch land removed from 100-yr (acres) -

Low water crossings removed from 100-yr

Reduction in # of road closures over 10 years

Impacts

Negative impacts?

Water supply contributions? NO

Negative impacts description

Water supply contribution description N/A

Estimated Cost

Strategy Cost

\$1,000,000

Amount of available funding

% Nature-Based







Regional view of FMS area

City of Bellaire Surrounding Area Detention and Drainage Improvements



ID# 062000004 Sponsor Bellaire (Municipality)

RFPG recommend? - Reason for Recommendation

Strategy Details

Title

Strategy type Other

Strategy description Contact surrounding municipalities and the agencies that own the storm sewers to consider upgrading their storm sewers and

providing more detention.

Associated FME's - Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120401040402,120401040401,120401040402,120401040401

County Harris

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 37,604 # of structures 5,879 Critical facilities 71

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (miles) 71

Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits _ Reduction in # of road closures over 10 years

Impacts

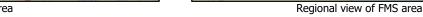
Negative impacts? - Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$10,000 Amount of available funding - % Nature-Based -







City of Bunker Hill Community Outreach Title ID# 062000006 Sponsor Bunker Hill Village (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type **Education and Outreach** Strategy description Community Outreach (flooded street identification, marking and signage) Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120401040303,120401040303 County Harris **Existing 100-Year Flood Risk** # of structures 0 Critical facilities 0 Population at risk 0 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) -Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Amount of available funding

Estimated Cost

Strategy Cost \$100,000

> Gessner Rd Plantation Bunker Hill Village

> > FMS area

College Station The Woodlands Beaumo 6 Houstor Victoria

% Nature-Based

Regional view of FMS area

City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan Title ID# 062000007 Sponsor Bunker Hill Village (Municipality)



RFPG recommend? -Reason for Recommendation

Strategy type

Other

Strategy description

Minimize the risk of dam/levee failure and related damage to existing and proposed structures by monitoring the maintenance

and inspection schedules.

Associated FME's

Associated FMP's

Associated FMS's

Drainage area (mi², est.)

Harris

Watershed HUC# (if known) 120401040303,120401040303

Existing 100-Year Flood Risk

Population at risk 0

of structures

Critical facilities 0

County

Flood risk type:

Riverine?

Coastal?

Local?

Playa?

Other?

Farm/Ranch land impacted (acres) -Number of low water crossings

Roadway(s) impacted (miles)

Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Other benefits

of structures removed from 100-yr

Farm/Ranch land removed from 100-yr (acres) -

Low water crossings removed from 100-yr

Reduction in # of road closures over 10 years

Impacts

Negative impacts?

Water supply contributions? NO

Negative impacts description

Water supply contribution description N/A

Estimated Cost

Strategy Cost

\$500,000

Amount of available funding

% Nature-Based



FMS area



Regional view of FMS area

City of Bunker Hill Village Non-Structural Mitigation Projects Title



ID# 062000058 Sponsor Bunker Hill Village (Municipality) RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type Other Strategy description Non-structural mitigation measure - buried powerlines, tree management and generators Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120401040303 County Harris **Existing 100-Year Flood Risk** # of structures 0 Critical facilities 0 Population at risk 0 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) -Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description

Water supply contributions? NO

Water supply contribution description N/A

Estimated Cost

Strategy Cost \$100,000

Gessner Rd

Plantation

Amount of available funding



College Station The Woodlands Beaumo 6 Houstor Victoria

% Nature-Based

Regional view of FMS area

FMS area

Bunker Hill Village

Title City of Cleveland Drainage Maintenance

ID# 062000046 Sponsor Cleveland (Municipality)



County

Liberty, Montgomery,

RFPG recommend? - Reason for Recommendation
Strategy Details

Strategy type Infrastructure Projects
Strategy description Removal of debris, silt and vegetation obstacles in drainageways. Project will clear obstacles, mow and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding

Associated FME's - Associated FMP's
Drainage area (mi², est.) 19

120401030201,120401030108,120401030109,120401030203,1204010302

Existing 100-Year Flood Risk

Watershed HUC# (if known)

Population at risk 1,267 # of structures 261 Critical facilities 0

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other?
Farm/Ranch land impacted (acres) 29 Roadway(s) impacted (miles) 27

Number of low water crossings 1 Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Cother benefits

Hof structures removed from 100-yr

Farm/Ranch land removed from 100-yr (acres)

Low water crossings removed from 100-yr

Reduction in # of road closures over 10 years

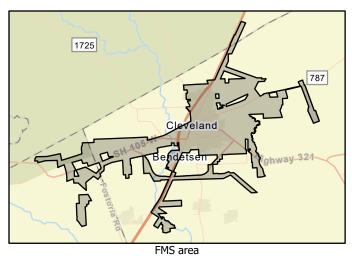
Impacts

 Negative impacts?
 Negative impacts description

 Water supply contributions?
 NO
 Water supply contribution description
 N/A

Estimated Cost

Strategy Cost \$5,000,000 Amount of available funding - % Nature-Based -





City of Galveston Floodplain Manager Increase Title ID# 062000056 Sponsor Galveston (County)



RFPG recommend? -Reason for Recommendation **Strategy Details** Regulatory and Guidance Strategy type Strategy description Increase and maintain number of floodplain managers in the building division through training and certification. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) 211 Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040500 County Galveston **Existing 100-Year Flood Risk** # of structures 21.858 Critical facilities 509 Population at risk 93,583 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 261 409 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Road removed from 100-yr (miles)

Farm/Ranch land removed from 100-yr (acres) -

Low water crossings removed from 100-yr Reduction in # of road closures over 10 years

Impacts

Other benefits

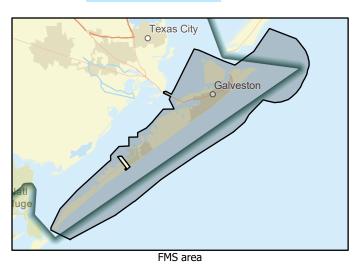
Negative impacts? Water supply contributions? NO Negative impacts description

Water supply contribution description N/A

Estimated Cost

Strategy Cost \$10,000 Amount of available funding







Regional view of FMS area

City of Galveston NFIP CRS Rating Title ID# 062000014 Sponsor Galveston (County)



RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type Other Strategy description Maintain membership of the NFIP's CRS Associated FME's Associated FMP's -Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040500 County Galveston **Existing 100-Year Flood Risk** # of structures 23,123 Critical facilities 513 Population at risk 93,965 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 263 408 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Amount of available funding

Estimated Cost

Strategy Cost \$10,000

2004

FMS area

The Woodlands Beaumont 6 Houston

% Nature-Based

Regional view of FMS area

City of Galveston SRL and RL Property Mitigation Title ID# 062000057 Sponsor Galveston (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Property Acquisition and Structural Elevation Strategy type Strategy description Elevation, acquisition or other mitigation of identified Repetitive Loss and Severe Repeditive Loss properties and structures damaged by flooding.

Associated FME's Associated FMP's

120402040300,120402040200,120402040400,120402040500

Associated FMS's Drainage area (mi², est.) 211

Watershed HUC# (if known) County Galveston

Existing 100-Year Flood Risk

of structures 21.858 Critical facilities 509 Population at risk 93,583 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 261 Roadway(s) impacted (miles) 409 Number of low water crossings Historical road closures 0

100-Year Flood Risk Reduction

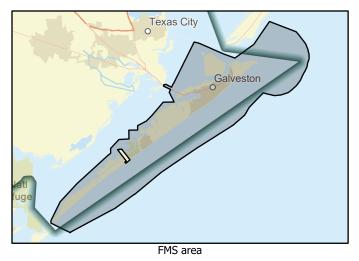
Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$80,000 Amount of available funding % Nature-Based





City of Hilcrest Village Land Acquisition Title ID# 062000047 Sponsor Hillcrest Village (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type **Property Acquisition and Structural Elevation** Strategy description Purchase additional land for retention pond construction to mitigate flooding in flood zones. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040400 County Brazoria **Existing 100-Year Flood Risk** # of structures 128 Critical facilities 1 Population at risk 333 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 0 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$250,000 Amount of available funding

Hillcrest Go Hillcrest

FMS area

The Woodlands Beaumor Houston

% Nature-Based

Regional view of FMS area

City of League City Property Acquisition and Relocation Title ID# 062000052 Sponsor League City (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details Property Acquisition and Structural Elevation** Strategy type Strategy description Buying and removing property from the floodplain will reduce long-term, repetitive flood loss. The open space created by the removal of insured property will facilitate drainage and allow for the creation of recreation areas. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040200,120402040100 County Galveston, Harris **Existing 100-Year Flood Risk** Critical facilities 25 Population at risk 20,978 # of structures 5,251 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1,308 Roadway(s) impacted (miles) 105 Number of low water crossings Historical road closures 2 100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$300,000,000 Amount of available funding % Nature-Based





City of Manvel Propery Acquisition Title ID# 062000048 Sponsor Manvel (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details** Property Acquisition and Structural Elevation Strategy type Strategy description Acquire Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties in the 100-year flood plain, as identified by FEMA and Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) 120402040200,120402040400,120402040100 Watershed HUC# (if known) County Brazoria **Existing 100-Year Flood Risk** # of structures Critical facilities 8 Population at risk 8,190 1,250 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 179 Roadway(s) impacted (miles) 43 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$1,700,000

Iowa Colony

Amount of available funding

Manvel

FMS area



The Woodlands Beaumor Houston

% Nature-Based

Regional view of FMS area

Title City of Pearland SRL and RL Property Acquisition

ID# 062000062 Sponsor Pearland (Municipality)



RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Property Acquisition and Structural Elevation

Strategy description Continue working with County and State officials to identify repetitive loss and severe repetitive loss properties, and pursue

mitigation projects to reduce risk.

Associated FME's - Associated FMP's -

Associated FMS's - Drainage area (mi², est.) 49

Watershed HUC# (if known) 120401040501,120402040200,120402040400,120402040100

County Brazoria, Fort

Houston

Existing 100-Year Flood Risk

of structures 829 Critical facilities 8 Population at risk 1,612 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 38 Roadway(s) impacted (miles) 31 Number of low water crossings Historical road closures 1

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr - Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) - Low water crossings removed from 100-yr - Other benefits - Reduction in # of road closures over 10 years -

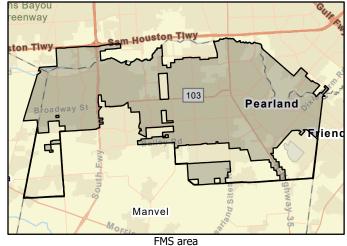
Impacts

Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$100,000 Amount of available funding - % Nature-Based -

tin





City of Santa Fe - Drainge System Maintenance Title ID# 062000054 Sponsor Santa Fe (Municipality)



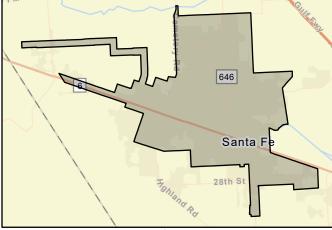
RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type Infrastructure Projects Strategy description Keep areas of concern free of unnecessary debris as needed. Implement and maintain tree, vegetation trimming/removal near, infrastructure, drainage systems and roadside areas. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040300,120402040200 County Galveston **Existing 100-Year Flood Risk** # of structures 400 Critical facilities 1 Population at risk 798 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 12 Roadway(s) impacted (miles) 4 Number of low water crossings Historical road closures 9 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$5,000 Amount of available funding



% Nature-Based



FMS area

Regional view of FMS area

City of Santa Fe - Harden Existing Critical Facilites and Infrastructure

SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGIONAL FLOOD PLANNING GROUP

062000053 Sponsor Santa Fe (Municipality)

RFPG recommend? - Reason for Recommendation

Strategy Details

Title

ID#

Strategy type Infrastructure Projects

Strategy description Harden existing critical facilites and infrastructure. Specifically City Hall, Maintenance Building, Library, and Community Center.

Associated FME's - Associated FMP's -

Associated FMS's - Drainage area (mi², est.) 17

Watershed HUC# (if known) 120402040300,120402040200

County Galveston

Existing 100-Year Flood Risk

of structures 400 Critical facilities 1 Population at risk 798 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 12 4 Number of low water crossings Historical road closures 9

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr - Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) - Low water crossings removed from 100-yr - Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$2,000,000 Amount of available funding - % Nature-Based -

6





The Woodlands

Houston

Beaumont

City of Santa Fe Stormproof/retrofit New Critical Infrastructure Title

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000039 Sponsor Santa Fe (Municipality)

RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type Regulatory and Guidance

Strategy description New construction and existing critical facilities and infrastructure should include advanced mitigation techniques.

Associated FME's Associated FMP's

Associated FMS's Drainage area (mi², est.)

Watershed HUC# (if known) 120402040300,120402040200

County Galveston

Existing 100-Year Flood Risk

of structures 400 Critical facilities 1 Population at risk 798 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 12 4 Number of low water crossings Historical road closures 9

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

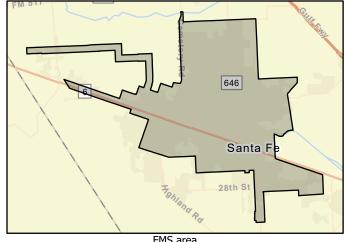
Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$5,000,000 Amount of available funding % Nature-Based







Regional view of FMS area

City of Todd Mission Public Outreach & Education Title ID# 062000021 Sponsor Todd Mission (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type **Education and Outreach** Strategy description Provide educational information related to preparedness, mitigation, response, and recovery to the public. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120401020203,120401020206 County Grimes **Existing 100-Year Flood Risk** # of structures 20 Critical facilities 0 Population at risk 25 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 1 Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Strategy Cost \$20,000

Estimated Cost

Amount of available funding

% Nature-Based Ange National Killeen 6 College Station Austin The Woodl 6 Houston 10

Regional view of FMS area



Develop Applicable Plans and Studies to Address Hazard Mitigation in Title **Galveston County**

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000015 Sponsor Galveston (County)

RFPG recommend? -Reason for Recommendation

Strategy Details Strategy type Regulatory and Guidance Strategy description Review planning needs annually to include, but not be limited to, CEMP, debris management, stormwater management, master plan, drainage, drought, GIS mapping, complete study to locate areas prone to expansive soils and land subsidence, etc. Associated FME's Associated FMP's -Associated FMS's Drainage area (mi², est.) 665 120402040300,120402040200,120402040400,120402040100 Watershed HUC# (if known) County Galveston **Existing 100-Year Flood Risk**

Population at risk 171,345	# of structures	48,566	Critical facilities	680
Flood risk type: Riverine? -	Coastal? -	Local? -	Playa? -	Other? -
Farm/Ranch land impacted (acres) 3,4.		Roadway(s) impacted (miles)	910	
Number of low water crossings 30		Historical road closures	30	

100-Year Flood Risk Reduction

Population removed from 100-yr	-	# of structures removed from 100-yr
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr
Other benefits _		Reduction in # of road closures over 10 years -

Impacts

Negative impacts?	-	Negative impacts description	
Water supply contributions?	NO	Water supply contribution description	N/A

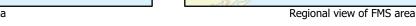
Estimated Cost

Strategy Cost \$100,000 Amount of available funding % Nature-Based

tin

Houston





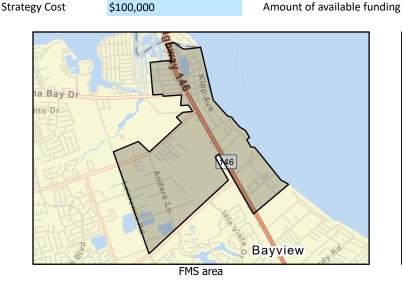
Develop Program to Optimize Operation of the Flood Gates at Second Cut Title Outlet in City of Kemah

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000017 Sponsor Kemah (Municipality)

RFPG recommend? -Reason for Recommendation

Strategy Details Preparedness Strategy type Strategy description Develop program to integrate with the Harris County Flood Control District for the purpose of optimizing the operation of the flood gates at second cut outlet. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) 120402040200,120402040100 Watershed HUC# (if known) County Galveston **Existing 100-Year Flood Risk** # of structures 560 Critical facilities 7 Population at risk 3,492 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 13 Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A **Estimated Cost**





% Nature-Based

Regional view of FMS area

Expand Development of Emergency Notification System in Liberty County



County

Liberty

Beaumont

ID# 062000023 Sponsor Liberty (County)

Title

RFPG recommend? - Reason for Recommendation

Existing 100-Year Flood Risk

Population at risk 4,854	# of structures	3,617	Critical facilities 8
Flood risk type: Riverine? -	Coastal? -	Local? -	Playa? - Other? -
Farm/Ranch land impacted (acres) 1,379		Roadway(s) impacted (miles)	144
Number of low water crossings 7		Historical road closures	7

100-Year Flood Risk Reduction

Population removed from 100-yr	-	# of structures removed from 100-yr
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr
Other benefits _		Reduction in # of road closures over 10 years -

Impacts

Negative impacts?	-	Negative impacts description -
Water supply contributions?	NO	Water supply contribution description N/A

Estimated Cost

Strategy Cost \$10,000 Amount of available funding - % Nature-Based - National Forest Right College Station

Victoria



Regional view of FMS area

Houston

Galveston County-wide Education and Outreach Title ID# 062000018 Sponsor Galveston (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Education and Outreach Strategy type

Strategy description Provide educational information related to preparedness, mitigation, response, and recovery to the public.

Associated FME's Associated FMP's

Associated FMS's Drainage area (mi², est.) 665

Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040100

County Galveston, Harris

Existing 100-Year Flood Risk

Critical facilities 680 Population at risk 171,338 # of structures 48.564 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 3,415 Roadway(s) impacted (miles) 910 Number of low water crossings Historical road closures 30

100-Year Flood Risk Reduction

Road removed from 100-yr (miles)

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Low water crossings removed from 100-yr

Houston

Other benefits

Reduction in # of road closures over 10 years

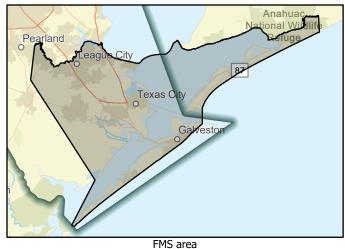
Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$50,000 Amount of available funding % Nature-Based

tin





Galveston County Stormproof/Retrofit Infrastructure Title



Sponsor Galveston (County) RFPG recommend? -Reason for Recommendation

Strategy Details

062000025

ID#

Infrastructure Projects Strategy type

Strategy description Stormproof/retrofit critical facilities and infrastructure for county-owned properties and unincorporated areas.

Associated FME's Associated FMP's

Associated FMS's Drainage area (mi², est.) 665

Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040100

County Galveston

Existing 100-Year Flood Risk

48.564 Critical facilities 680 Population at risk 171,340 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 3,416 909 Number of low water crossings Historical road closures 30

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$5,000,000 Amount of available funding % Nature-Based







Grimes County Property Acquisition Title ID# 062000036 Sponsor Grimes (County)



RFPG recommend? -Reason for Recommendation **Strategy Details Property Acquisition and Structural Elevation** Strategy type Strategy description Per NFIP participation, the acquisition of structures located in the 100-year flood plain and in dam inundation areas. Associated FME's Associated FMP's Associated FMS's 799 Drainage area (mi², est.) Watershed HUC# (if known) 120401010101,120401010301,120401010302,120401010303,1204010101 County Grimes **Existing 100-Year Flood Risk** # of structures 145 Critical facilities 0 Population at risk 120 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 151 Roadway(s) impacted (miles) 11 Number of low water crossings Historical road closures 1 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$95,000

> Huntsvil College Station FMS area



Regional view of FMS area

Hardening of Critical Facilites in City of Mission Todd Title ID# 062000059 Sponsor Todd Mission (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details** Infrastructure Projects Strategy type Strategy description Protecting critical facilities such as hospitals, fire stations, police stations and water treatment plants can help keep them operational during severe storms. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120401020203,120401020206 County Grimes **Existing 100-Year Flood Risk** # of structures 17 Critical facilities 0 Population at risk 19 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description

Water supply contribution description N/A

Amount of available funding

Estimated Cost

Strategy Cost \$25,000

Water supply contributions? NO

Todd Mission

FMS area

Ange National Killeen 6 College Station Austin The Woodl 6 Houston 10

% Nature-Based

Regional view of FMS area

Title Harris County Hazard Mitigation Action AW-3

ID# 062000008 Sponsor Harris (County)



County

Harris

RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type

Education and Outreach

Utilizing the existing public outreach capability to develop, deploy, and disseminate targeted outreach projects promoting risk communication, mitigation and resilience to all the hazards of concern.

Associated FME's

- Associated FMP's
-

Associated FMS's

Drainage area (mi², est.)

Watershed HUC# (if known)

Existing 100-Year Flood Risk

Critical facilities 2,332 143,642 Population at risk 976,798 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 5,993 Roadway(s) impacted (miles) 2,408 Number of low water crossings Historical road closures 89

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr - Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) - Low water crossings removed from 100-yr - Other benefits - Reduction in # of road closures over 10 years -

Impacts

Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$100,000 Amount of available funding - % Nature-Based -

Austin





Title Harris County Hazard Mitigation Action AW-4

ID# 062000009 Sponsor Harris (County)



RFPG recommend? - Reason for Recommendation -

Strategy Details

Strategy type

Strategy description

Strive to capture time-sensitive data such as high-water marks, extent and location of hazard, and loss information to support future updates to risk assessments as well as other plans and programs that utilize hazard extent data.

Associated FME's - Associated FMP's

Associated FMS's

Watershed HUC# (if known)

Drainage area (mi², est.) 1,771

Harris

County

Hou

Existing 100-Year Flood Risk

Critical facilities 2,332 143.642 Population at risk 976,798 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 5,993 Roadway(s) impacted (miles) 2,408 Number of low water crossings Historical road closures 89

100-Year Flood Risk Reduction

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Cother benefits

Road removed from 100-yr (miles)

Reduction in # of road closures over 10 years

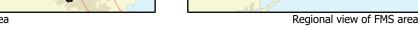
Impacts

Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$300,000 Amount of available funding - % Nature-Based -





Austin

tonio

Title Harris County Hazard Mitigation Action AW-5

ID# 062000010 Sponsor Harris (County)



RFPG recommend? - Reason for Recommendation -

Strategy Details

Strategy type Flood Measurement and Warning

Strategy description Continue to develop, improve, and implement an enhanced mass public warning and alert system within the Harris County

Joint Information Center to provide warning capability throughout Harris County to support the emergency management of all hazards.

Associated FME's - Associated FMP's

Associated FMS's - Drainage area (mi², est.) 1,771

Watershed HUC# (if known) -

County Harris

Existing 100-Year Flood Risk

Critical facilities 2,332 143,642 Population at risk 976,798 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 5,993 Roadway(s) impacted (miles) 2,408 Number of low water crossings Historical road closures 89

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr - Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) - Low water crossings removed from 100-yr - Other benefits - Reduction in # of road closures over 10 years -

Impacts

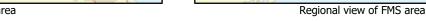
 Negative impacts?
 Negative impacts description

 Water supply contributions?
 NO
 Water supply contribution description
 N/A

Estimated Cost

Strategy Cost \$100,000 Amount of available funding - % Nature-Based -







Title Harris County Hazard Mitigation Action AW-6

ID# 062000011 Sponsor Harris (County)



1,771

Harris

RFPG recommend? - Reason for Recommendation -

Strategy Details

Strategy type

Flood Measurement and Warning

Utilize viable and relevant information, data and tools (Hazus models) developed as part of the update to the risk assessment of this plan update to support training and exercise of the County's preparedness, response and recovery programs.

Associated FME's

Associated FMS's

Associated FMS's

Watershed HUC# (if known) - County

Existing 100-Year Flood Risk

Critical facilities 2,332 143.642 Population at risk 976,798 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 5,993 Roadway(s) impacted (miles) 2,408 Number of low water crossings Historical road closures 89

100-Year Flood Risk Reduction

Population removed from 100-yr

Critical facilities removed from 100-yr

Road removed from 100-yr (miles)

Cother benefits

Road removed from 100-yr (miles)

Reduction in # of road closures over 10 years

Impacts

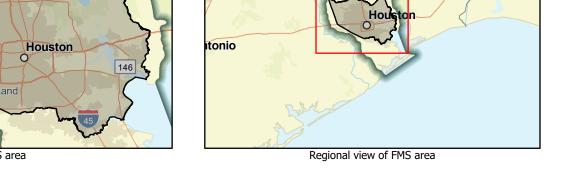
Negative impacts? - Negative impacts description - Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$500,000 Amount of available funding - % Nature-Based -

Austin





Harris County Mitigation Buyout and Relocation Program Title ID# 062000060 Sponsor Harris (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Property Acquisition and Structural Elevation Strategy type

Strategy description This program is designed to assist owners whose properties were damaged by a natural disaster and or in an area that is

designated hopelessly deep in the floodplain and repetitively flooded, to relocate outside the threat of flooding.

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) 120401020203,120401020206

Drainage area (mi², est.) 1,771

County

Harris

Existing 100-Year Flood Risk

Critical facilities 2,332 Population at risk 976,798 # of structures 143.642 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 5,993 Roadway(s) impacted (miles) 2,408 Number of low water crossings Historical road closures 89

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$75,000,000 Amount of available funding % Nature-Based







Regional view of FMS area

Harris County Wide Voluntary Buyout Program Title ID# 062000063 Sponsor Harris County Flood Control District



RFPG recommend? -Reason for Recommendation

Strategy Details

Property Acquisition and Structural Elevation Strategy type

Strategy description Targeted home buyouts to reduce flood damages in areas several feet deep in the floodplain where structural projects to

reduce flooding are not cost-effective and/or beneficial.

Associated FME's Associated FMP's

Associated FMS's

120402040300,120402040200,120402040400,120402040500

County

1,771

Harris

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Watershed HUC# (if known)

Critical facilities 8 Population at risk 4,855 # of structures 3,619 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1,379 Roadway(s) impacted (miles) 144 Number of low water crossings Historical road closures 7

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$500,000,000 Amount of available funding % Nature-Based

Austin





Title Implement Stormwater Management Plan in City of Bayou Vista



County

Galveston

Other?

ID# 062000026 Sponsor Bayou Vista (Municipality)

RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Regulatory and Guidance

Strategy description Implement stormwater management plan to improve drainage during flood and other weather events.

Associated FME's - Associated FMP's -

Associated FMS's - Drainage area (mi², est.) 0

Watershed HUC# (if known) 120402040200

Existing 100-Year Flood Risk

Population at risk 1,500 # of structures 1,121 Critical facilities 3

Flood risk type: Riverine? - Coastal? - Local? - Playa? -

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

Number of low water crossings - Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits - Reduction in # of road closures over 10 years

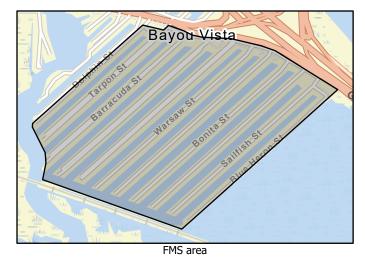
Impacts

Negative impacts? - Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$25,000 Amount of available funding - % Nature-Based -





Increase Public Awareness of Hazards in City of Arcola Title



ID# 062000022 Sponsor Arcola (Municipality) RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type **Education and Outreach** Strategy description Increase public awareness of hazards and hazardous areas. Distribute public awareness information regarding flood hazards. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040400 Fort Bend County **Existing 100-Year Flood Risk** # of structures 41 Critical facilities 0 Population at risk 39 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 1 0 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr

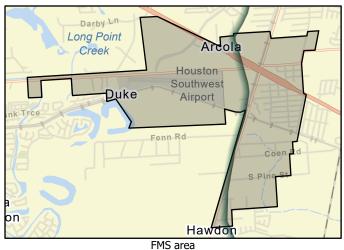
Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$50,000 Amount of available funding





Title Install Outdoor Early warning System in Walker County



ID# 062000043 Sponsor Walker (County)

RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Education and Outreach

Strategy description Install Outdoor Early warning System to provide citizens early warning of an impending disaster, or an event that would affect

the life and/or property of the citizens.

Associated FME's - Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120401010104,120401010101,120401010102,120401010103,1204010102

County Walker

798

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 657 # of structures 505 Critical facilities 1

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other?

Farm/Ranch land impacted (acres) 180 Roadway(s) impacted (miles) 25

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits - Reduction in # of road closures over 10 years

Impacts

Negative impacts? - Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$850,000 Amount of available funding - % Nature-Based -







Liberty County Floodplain Acquistion Title ID# 062000055 Sponsor Liberty (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description Acquisition of property in the floodplain.

Associated FME's Associated FMP's -

Associated FMS's

Drainage area (mi², est.) 665 Watershed HUC# (if known) 120402040300,120402040200,120402040400,120402040100

County Galveston

Existing 100-Year Flood Risk

of structures 48,570 Critical facilities 681 Population at risk 171,395

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 3,412 910

Number of low water crossings Historical road closures 30

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

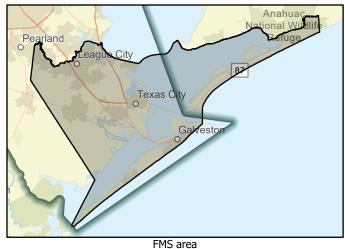
Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$750,000 Amount of available funding % Nature-Based







Regional view of FMS area

Liberty County Regional Coordination Title ID# 062000065 Sponsor Liberty (County)

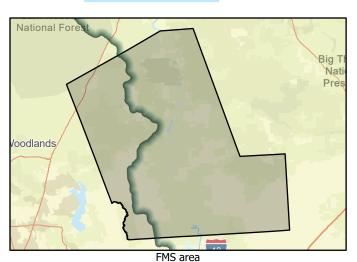


RFPG recommend? -Reason for Recommendation **Strategy Details Project Planning** Strategy type Strategy description Work with adjoining counties regarding flooding and drainage issues. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) 1,170 Watershed HUC# (if known) 120401030201,120401030108,120401030109,120401030205,1204010304 County Liberty **Existing 100-Year Flood Risk** 4,791 Critical facilities 22 Population at risk 20,157 # of structures Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 137 Roadway(s) impacted (miles) 76 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts**

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$500,000 Amount of available funding



College Station Beaumont Houston Victoria

% Nature-Based

Regional view of FMS area

Title Maintain Drainage Systems and Culverts in City of Friendswood

ID# 062000051 Sponsor Friendswood (Municipality)



Drainage area (mi², est.)

Galveston, Harris

County

RFPG recommend? - Reason for Recommendation -

Strategy Details Strategy type Infrastructure Projects Strategy description Cleand & recut drainage ditches, complete work orders related to conveyance systems. Pursue sub-regional drainage improvements. Associated FME's - Associated FMP's - Associated FMS's -

Existing 100-Year Flood Risk

Watershed HUC# (if known) 120402040200,120402040100

Population at risk 5,467	# of structures	1,680	Critical facilities 2	
Flood risk type: Riverine? -	Coastal? -	Local? -	Playa? - Other? -	
Farm/Ranch land impacted (acres) 18		Roadway(s) impacted (miles)	38	
Number of low water crossings 5		Historical road closures	5	

100-Year Flood Risk Reduction

Population removed from 100-yr	-	# of structures removed from 100-yr
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres) -
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr
Other benefits _		Reduction in # of road closures over 10 years -

Impacts

Negative impacts?	-	Negative impacts description -
Water supply contributions?	NO	Water supply contribution description N/A

Estimated Cost

Strategy Cost \$1,400,000 Amount of available funding - % Nature-Based - Webster Houston



Regional view of FMS area

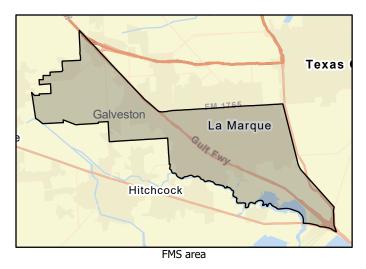
Title Mitigate Repetitive Flood Claim & Severe Repetititve Loss Properties in Galveston County



ID# 062000064 Sponsor Galveston (County)

RFPG recommend? -Reason for Recommendation **Strategy Details Project Planning** Strategy type Strategy description Grant funding through HMGP may be used toi mitigate RFC and SRL properties. Mitigation option will be implemented with property owners as funding and opportunities arise. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040200 County Galveston **Existing 100-Year Flood Risk** Critical facilities 18 Population at risk 21,569 # of structures 3,445 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 262 Roadway(s) impacted (miles) 57 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A **Estimated Cost**

Strategy Cost \$30,000,000 Amount of available funding - % Nature-Based -



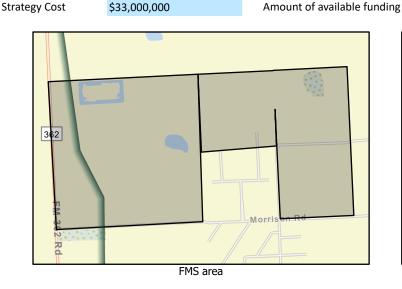


Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Title Restoration

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000029 Sponsor Waller (County)

RFPG recommend? -Reason for Recommendation **Strategy Details** Natural Strategy type Strategy description Purchase and restore agricultutal & natural lands at the headwater of Barker Reservoir. Manage land for agricultual use, restore native landscape like grasslands and wetlands, and enhance management practices. Provides natural flood mitigation benefits. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120401020103,120401040101 County Waller **Existing 100-Year Flood Risk** # of structures Critical facilities Population at risk -Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) -Roadway(s) impacted (miles) Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A **Estimated Cost**





% Nature-Based

Regional view of FMS area

Natural Infrastructure Project Mound Creek Conservation Title ID# 062000030 Sponsor Waller (County)



RFPG recommend? -Reason for Recommendation **Strategy Details** Natural Strategy type Strategy description Purhase conservation easement from landowner to permanently conserve as aricultural/natural areas. KPC to ensure land remains undeveloped agriculutural land and maintain conservation. Would provide multiple benefits such as flood mitigation, and more. Associated FME's Associated FMP's -Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120401020103,120401020101 County Harris, Waller **Existing 100-Year Flood Risk** # of structures Critical facilities 0 Population at risk 0 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 41 Roadway(s) impacted (miles) Number of low water crossings Historical road closures 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A **Estimated Cost** % Nature-Based

Strategy Cost \$32,000,000 Amount of available funding





Regional view of FMS area

Promotion of Flood Insurance in City of Arcola Title ID# 062000020 Sponsor Arcola (Municipality)



RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type **Education and Outreach** Strategy description Promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the NFIP. Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) Watershed HUC# (if known) 120402040400 Fort Bend County **Existing 100-Year Flood Risk** # of structures 41 Critical facilities 0 Population at risk 39 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 1 0 Number of low water crossings Historical road closures 0 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Amount of available funding

Estimated Cost

Strategy Cost \$50,000

> Darby Ln Long Point Arcola Creek Houston Southwest Airport Fenn Rd

> > Hawdor FMS area Regional view of FMS area



% Nature-Based

Property Acquisition Down-Stream of High Hazard Dams in Grimes County Title

SAN JACINTO REGIONAL FLOOD PLANNING GROUP 6

ID# 062000037 Sponsor Grimes (County)

RFPG recommend? -Reason for Recommendation **Strategy Details** Strategy type Property Acquisition and Structural Elevation Strategy description Acquire homes located down-stream of high hazard dams Associated FME's Associated FMP's Associated FMS's Drainage area (mi², est.) 799 Watershed HUC# (if known) 120401010101,120401010301,120401010302,120401010303,1204010101 County Grimes **Existing 100-Year Flood Risk** # of structures 145 Critical facilities 0 Population at risk 120 Flood risk type: Riverine? Coastal? Local? Playa? Other? Roadway(s) impacted (miles) Farm/Ranch land impacted (acres) 151 11 Number of low water crossings Historical road closures 1 100-Year Flood Risk Reduction Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years **Impacts** Negative impacts? Negative impacts description

Water supply contributions? NO

Estimated Cost Strategy Cost \$1,000,000 Amount of available funding

Water supply contribution description N/A





Public Information and Awareness in City of New Waverly Title ID# 062000019 Sponsor New Waverly (Municipality)



RFPG recommend? -Reason for Recommendation

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Strategy	DELGII	IJ
		_

Education and Outreach Strategy type

Strategy description Rewrite, improve, and implement new local floodplain regulations, to include a public information campaign on regulatory

Associated FME's Associated FMP's

Associated FMS's Drainage area (mi², est.)

Watershed HUC# (if known) 120401030101

County Walker

Existing 100-Year Flood Risk

of structures 23 Critical facilities 0 Population at risk 19 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (miles) 0 0

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$10,000 Amount of available funding % Nature-Based





Title Retrofit and Harden the Emergency Operations Center Serving Walker County

SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGIONAL FLOOD PLANNING GROUP

ID# 062000045 Sponsor Walker (County)

RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Education and Outreach

Strategy description Retrofit and harden the Emergency Operations Center serving Walker county including city of Huntsville, New Waverly, and

Riverside.

Associated FME's - Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120401010104,120401010101,120401010102,120401010103,1204010102

County Walker

798

Angelina National Forest

Bea

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 657 # of structures 505 Critical facilities 1

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 180 Roadway(s) impacted (miles) 25

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits - Reduction in # of road closures over 10 years

Impacts

Negative impacts? - Negative impacts description -

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$4,000,000 Amount of available funding - % Nature-Based -





Killeen

Austin

Waco

College

Station

The Woodlands

Houston

Title Walker County Property Acquisition in Deep River Plantation Subdivision

SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGIONAL FLOOD PLANNING GROUP

ID# 062000038 Sponsor Walker (County)

RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Property Acquisition and Structural Elevation

Strategy description Acquire flood loss properties and properties prone to flooding in the Deep River Plantation Subdivision.

Associated FME's - Associated FMP's -

Associated FMS's

Drainage area (mi², est.)

798

Watershed HUC# (if known) 120401010104,120401010101,120401010102,120401010103,1204010102

County Walker

Existing 100-Year Flood Risk

Population at risk 657 # of structures 505 Critical facilities 1

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 180 Roadway(s) impacted (miles) 25

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr

Other benefits - Reduction in # of road closures over 10 years

Impacts

Negative impacts? - Negative impacts description -

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$5,000,000 Amount of available funding - % Nature-Based -





Walker County Public Hazard Information and Awareness Campaign Title



ID# 062000044 Sponsor Walker (County)

RFPG recommend? -Reason for Recommendation

Strategy Details

Education and Outreach Strategy type

Strategy description The county and participating jurisdiction will create and implement an education campaign to educate the public on mitigation

techniques for all hazards.

Associated FME's Associated FMP's

Associated FMS's

120401010104,120401010101,120401010102,120401010103,1204010102 Watershed HUC# (if known)

> County Walker

798

Drainage area (mi², est.)

Existing 100-Year Flood Risk

of structures 505 Critical facilities 1 Population at risk 657

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) 180 Roadway(s) impacted (miles) 25 2

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$20,000 Amount of available funding % Nature-Based







Walker County Public Information and Awareness

ID# 062000027 Sponsor Walker (County)

RFPG recommend? - Reason for Recommendation



Strategy Details

Title

Strategy type Flood Measurement and Warning

Strategy description Purchase high water (flood) indicators for low water river crossing for county roads.

Associated FME's - Associated FMP's -

Associated FMS's

Drainage area (mi², est.)

798

Watershed HUC# (if known) 120401010104,120401010101,120401010102,120401010103,1204010102

County Walker

Existing 100-Year Flood Risk

Population at risk 657 # of structures 505 Critical facilities 1

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 180 Roadway(s) impacted (miles) 25

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits _ Reduction in # of road closures over 10 years

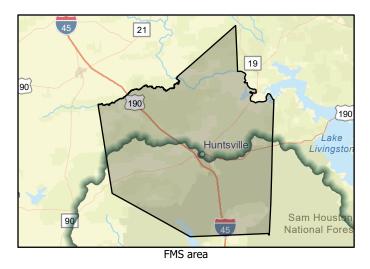
Impacts

Negative impacts? - Negative impacts description

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$500,000 Amount of available funding - % Nature-Based -





Waller County Drainage System Maintenance Title 062000040 Sponsor Waller (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

ID#

Infrastructure Projects Strategy type

Strategy description Project will clear obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding

in all participating jurisdictions.

Associated FME's Associated FMP's

Associated FMS's

120401020102,120401020103,120401020204,120401020101,1204010202 Watershed HUC# (if known)

County Waller

Houston

516

Drainage area (mi², est.)

Existing 100-Year Flood Risk

of structures Critical facilities 6 Population at risk 2,410 1,067 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1,357 Roadway(s) impacted (miles) 41 Number of low water crossings Historical road closures 19

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$2,500,000 Amount of available funding % Nature-Based



Regional view of FMS area

onio

Austin

Title Waller County Elevation Certificate Requirement



ID# 062000016 Sponsor Waller (County)

RFPG recommend? - Reason for Recommendation

Strategy Details

Strategy type Preparedness

Strategy description Require and maintain FEMA elevation certificates for all new/improved building in the SFHA. Finished construction Ecs must be

submitted prior to OSSF permitting.

Associated FME's - Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120401010104,120401010101,120401010102,120401010103,1204010102

County Walker

798

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 657 # of structures 505 Critical facilities 1

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 180 Roadway(s) impacted (miles) 25

Number of low water crossings 2 Historical road closures 2

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits _ Reduction in # of road closures over 10 years

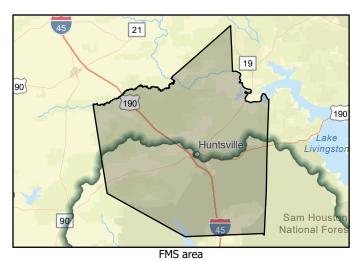
Impacts

Negative impacts? - Negative impacts description -

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$50,000 Amount of available funding - % Nature-Based -





Title Waller County Flood Hazard Public Information Campaign

ID# 062000041 Sponsor Waller (County)

RFPG recommend? - Reason for Recommendation

SAN JACINTO REGIONAL FLOOD PLANNING GROUP REGIONAL FLOOD PLANNING GROUP

Strategy Details

Strategy type Education and Outreach

Strategy description Posting of signage at high profile locations and use of social media to communicate threats/concers. Flood gauges for common

flooded road crossings. Burn ban signs.

Associated FME's - Associated FMP's -

Associated FMS's

Watershed HUC# (if known) 120401020102,120401020103,120401020204,120401020101,1204010202

County Waller

Houston

516

Drainage area (mi², est.)

Existing 100-Year Flood Risk

Population at risk 2,410 # of structures 1,067 Critical facilities 6

Flood risk type: Riverine? - Coastal? - Local? - Playa? - Other? -

Farm/Ranch land impacted (acres) 1,357 Roadway(s) impacted (miles) 41

Number of low water crossings 19 Historical road closures 19

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits - Reduction in # of road closures over 10 years

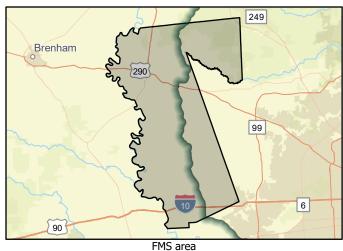
Impacts

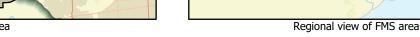
Negative impacts? - Negative impacts description -

Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$20,000 Amount of available funding - % Nature-Based -





onio

Austin

Waller County Freeboard Requirement Update Title ID# 062000042 Sponsor Waller (County)



RFPG recommend? -Reason for Recommendation

Strategy Details

Regulatory and Guidance Strategy type

Strategy description The county may increase its freeboard requirement to 24-in from 18-in above the base flood elevation. County may require that

all new lots within a platted subdivision be located fully outside of the floodplain. Applicable to all floodplain development.

Associated FME's Associated FMP's -

Associated FMS's Drainage area (mi², est.) 516

120401020102,120401020103,120401020204,120401020101,1204010202 Watershed HUC# (if known)

> County Waller

Existing 100-Year Flood Risk

of structures Critical facilities 6 Population at risk 2,410 1.067 Flood risk type: Riverine? Coastal? Local? Playa? Other? Farm/Ranch land impacted (acres) 1,357 Roadway(s) impacted (miles) 41 Number of low water crossings Historical road closures 19

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres) -Road removed from 100-yr (miles) Low water crossings removed from 100-yr Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description Water supply contributions? NO Water supply contribution description N/A

Estimated Cost

Strategy Cost \$100,000 Amount of available funding % Nature-Based

