

# Flood Management Strategy (FMS)



Title **Lavon Warning System**

ID# **032000001** Sponsor **03003139**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type	Flood Measurement and Warning		
Strategy description	Expand the Early Warning Sirens and Local Warning System to notify new populations of impending severe weather or imminent hazards to reduce the loss of life and mitigate the effects of the hazards		
Associated FME's	-	Associated FMP's	-
Associated FMS's	-	Drainage area (mi <sup>2</sup> , est.)	3
Watershed HUC# (if known)	120301060401,120301060307	County	Collin

## Existing 100-Year Flood Risk

Population at risk	4	# of structures	4	Critical facilities	0
Flood risk type:	Riverine? <b>Yes</b>	Coastal? <b>No</b>	Local? <b>No</b>	Playa? <b>No</b>	Other? <b>No</b>
Farm/Ranch land impacted (acres)	32	Roadway(s) impacted (miles)	1		
Number of low water crossings	1	Historical road closures	0		

## 100-Year Flood Risk Reduction

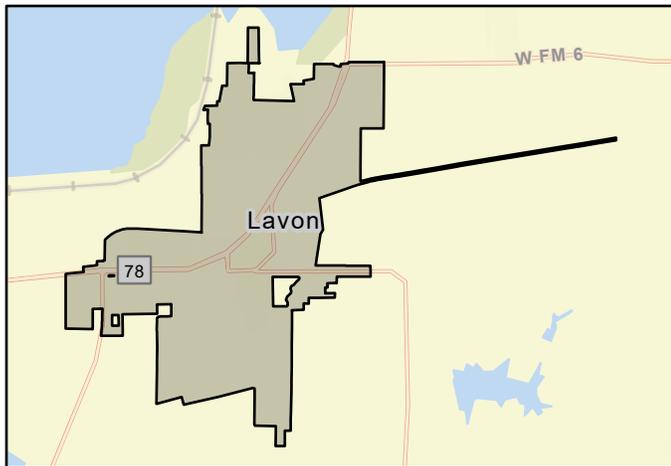
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	<b>No</b>	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	<b>No</b>	Negative impacts description	<b>No negative impact.</b>
Water supply contributions?	<b>No</b>	Water supply contribution description	-

## Estimated Cost

Strategy Cost	<b>\$250,000</b>	Amount of available funding	<b>\$25000</b>	% Nature-Based	<b>0</b>
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FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Lindsay Flood Warning and Public Safety Improvements**

ID# **032000002** Sponsor **00003210**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Citywide "reverse 911" to enable local emergency officials to notify emergency information pertaining to flood advisories, flood warnings, and flood evacuations.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030403,120301030106,111302010707** Drainage area (mi<sup>2</sup>, est.) **2**

County **Cooke**

## Existing 100-Year Flood Risk

Population at risk **39** # of structures **36** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **136** Roadway(s) impacted (miles) **2**

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 **No** Reduction in # of road closures over 10 years **-**

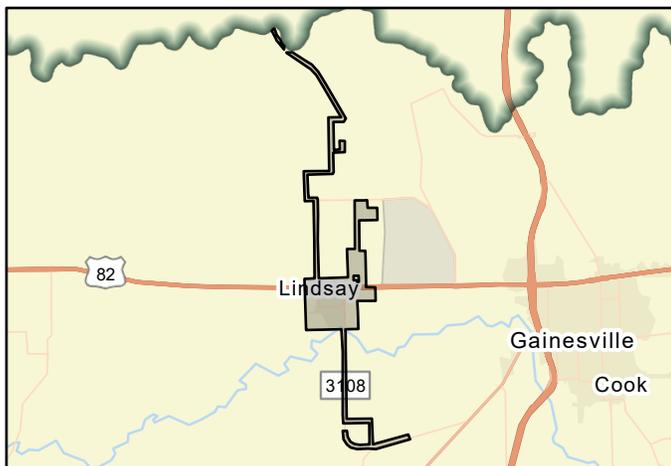
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Addition of Low Water Crossing Signs and Gates - City of Irving**

ID# **032000003** Sponsor **03002563**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Identify and add low water crossing signs and gates to low water crossing areas as described in The Road to The Future Report.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301031006,120301020706,120301031005,120301031004,1203010310** Drainage area (mi<sup>2</sup>, est.) **68**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **40,893** # of structures **4,589** Critical facilities **31**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **1,387** Roadway(s) impacted (miles) **84**

Number of low water crossings **29** 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 **No** Reduction in # of road closures over 10 years **-**

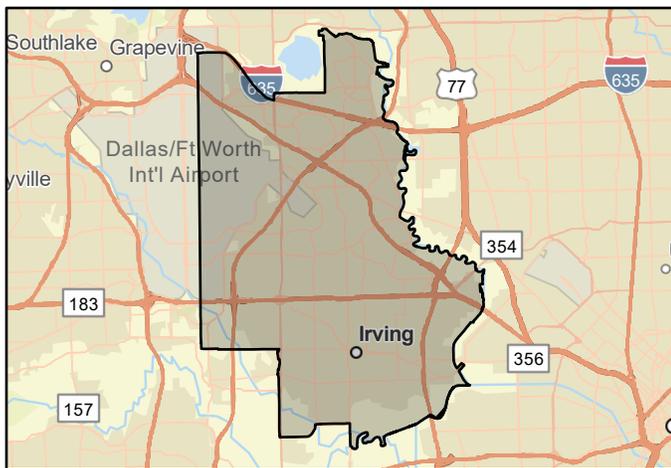
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Richardson Flood Warning and Public Safety Improvements**

ID# **032000004** Sponsor **03002820**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Monitor streams and waterways for potential flooding problems including installation of gauges, sensors, and precipitation measuring sites.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060406,120301060407,120301050105,120301050104,1203010605** Drainage area (mi<sup>2</sup>, est.) **29**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **613** # of structures **139** Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **81** Roadway(s) impacted (miles) **7**

Number of low water crossings **25** 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 **No** Reduction in # of road closures over 10 years **-**

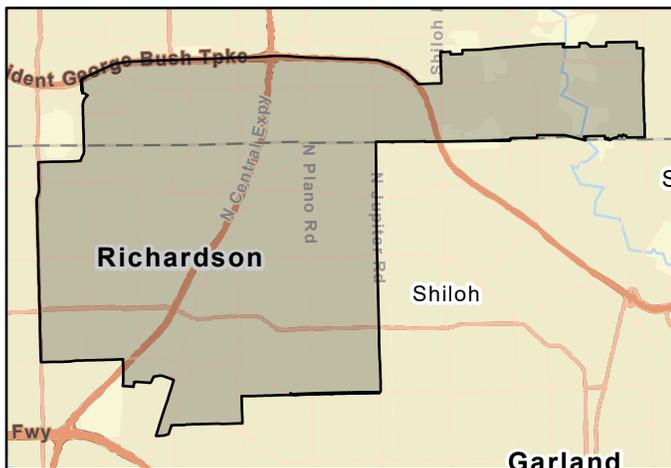
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

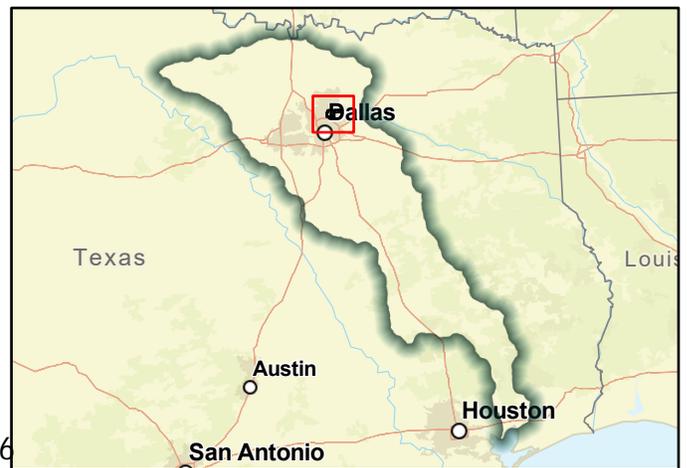
Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Timber Creek Flood Warning System Installation**

ID# **032000005** Sponsor **03003354**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Purchase and Install Flood Warning Systems in Key Areas Along Timber Creek**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301031002** Drainage area (mi<sup>2</sup>, est.) **3**

County **Denton**

## Existing 100-Year Flood Risk

Population at risk **475** # of structures **140** Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **38** Roadway(s) impacted (miles) **3**

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 **No** Reduction in # of road closures over 10 years **-**

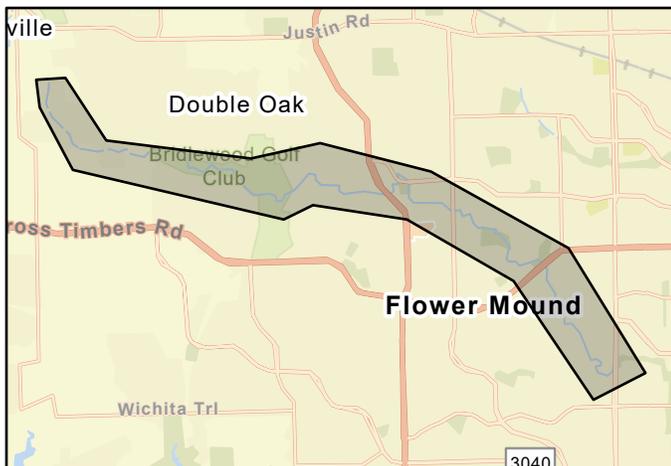
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Houston County Stream and Rain Gauge Installation**

ID# **032000006** Sponsor **00000128**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Install stream and rain gauges in flood prone areas and waterways as part of new alert notification system**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030403,120301030106,111302010707** Drainage area (mi<sup>2</sup>, est.) **1,232**

County **Houston**

## Existing 100-Year Flood Risk

Population at risk **113** # of structures **142** Critical facilities **5**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **4,593** Roadway(s) impacted (miles) **110**

Number of low water crossings **18** 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 **No** Reduction in # of road closures over 10 years **-**

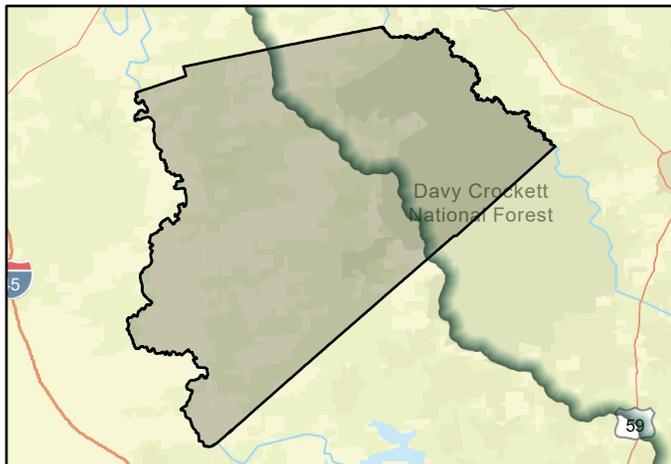
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Hunt County Flood Warning and Public Safety**

ID# **032000007** Sponsor **00000212**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Adopt and Promote the program of "Turn Around Don't Drown Campaign." Implement early warning program.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030403,120301030106,111302010707** Drainage area (mi<sup>2</sup>, est.) **879**

County **Hunt**

## Existing 100-Year Flood Risk

Population at risk **7** # of structures **27** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **2,159** Roadway(s) impacted (miles) **4**

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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

## Strategy Details

Strategy type

Strategy description

Associated FME's  Associated FMP's

Associated FMS's

Watershed HUC# (if known)  Drainage area (mi<sup>2</sup>, est.)

County

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

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

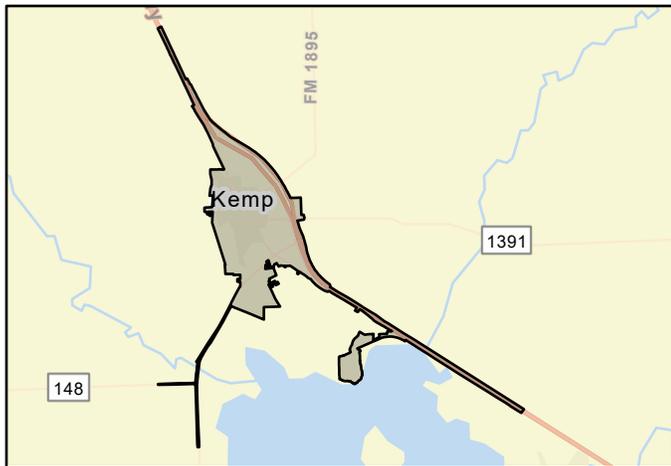
## Impacts

Negative impacts?  Negative impacts description

Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Leon County Local Flood Warning System**

ID# **032000009** Sponsor **00000132**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **This action proposes a local flood warning system to reduce the potential impacts of future flood events**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030403,120301030106,111302010707** Drainage area (mi<sup>2</sup>, est.) **1,076**

County **Leon**

## Existing 100-Year Flood Risk

Population at risk **50** # of structures **77** Critical facilities **6**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **5,219** Roadway(s) impacted (miles) **100**

Number of low water crossings **5** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Rockwall County Warning Signs and Flood Control Gates**

ID# **032000010** Sponsor **00000175**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Install automatic flood warning gates to prevent access into flooded areas. Install warning signs and flood control**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060409,120301060402,120301060502,120301060401,1201000103** Drainage area (mi<sup>2</sup>, est.) **148**

County **Rockwall**

## Existing 100-Year Flood Risk

Population at risk **1,553** # of structures **411** Critical facilities **3**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **4,485** Roadway(s) impacted (miles) **34**

Number of low water crossings **15** 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 **No** Reduction in # of road closures over 10 years **-**

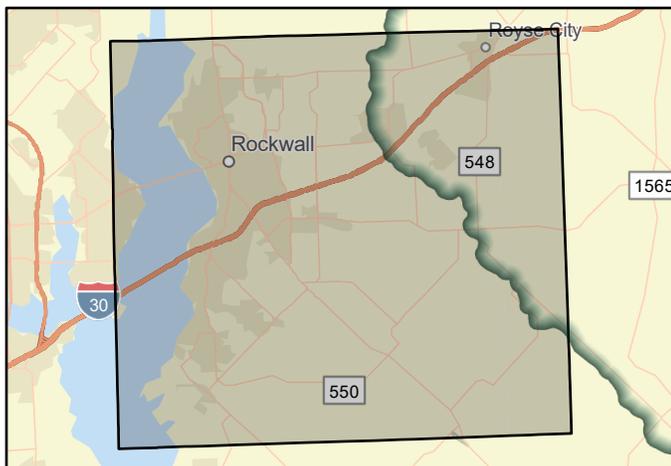
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Chambers Creek Stream Flow Monitoring System**

ID# **032000011** Sponsor **03003521**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Implement a Stream Flow Monitoring system that will allow for historical tracking and constant monitoring of water levels to assist with early warnings to residents**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020403** Drainage area (mi<sup>2</sup>, est.) **2**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **1,006** # of structures **272** Critical facilities **4**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **86** Roadway(s) impacted (miles) **6**

Number of low water crossings **8** 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 **No** Reduction in # of road closures over 10 years **-**

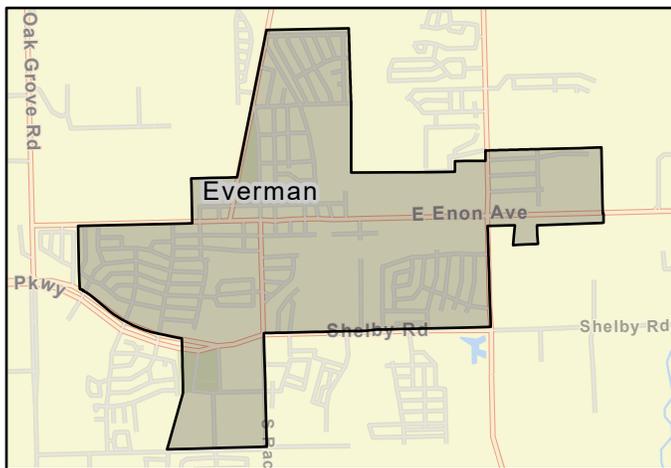
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Creek Level Monitoring Systems and Weather Stations Installation**

ID# **032000012** Sponsor **03003013**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Install creek level monitoring systems and weather stations**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020603,120301020601,120301020604,120301020605,1203010204** Drainage area (mi<sup>2</sup>, est.) **36**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **2,492** # of structures **422** Critical facilities **4**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **779** Roadway(s) impacted (miles) **30**

Number of low water crossings **12** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Dalworthington Flood Warning System**

ID# **032000013** Sponsor **03003519**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Purchase and install a technological based high water detection system for low water crossings to mitigate the hazards when the location floods**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020405** Drainage area (mi<sup>2</sup>, est.) **2**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **25** # of structures **12** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **16** Roadway(s) impacted (miles) **1**

Number of low water crossings **3** 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 **No** Reduction in # of road closures over 10 years **-**

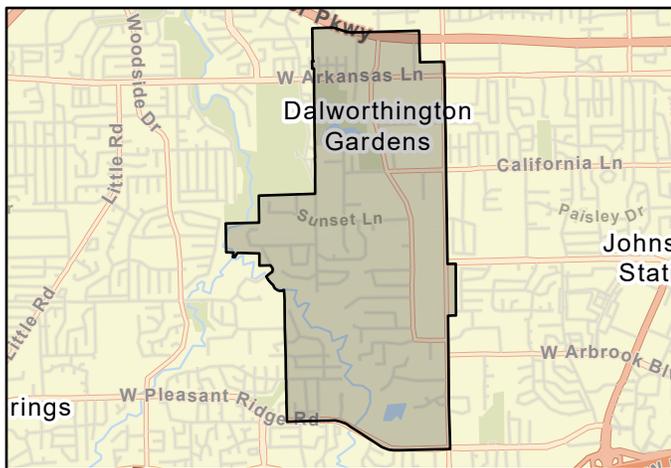
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$300,000** Amount of available funding **\$-** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Colleyville Flood Warning System**

ID# **032000014** Sponsor **03002385**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Enhance high water warning system by adding automatic gates on the streets that normally flood**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020704,120301020505,120301020703** Drainage area (mi<sup>2</sup>, est.) **13**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **735** # of structures **156** Critical facilities **2**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **132** Roadway(s) impacted (miles) **5**

Number of low water crossings **4** 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 **No** Reduction in # of road closures over 10 years **-**

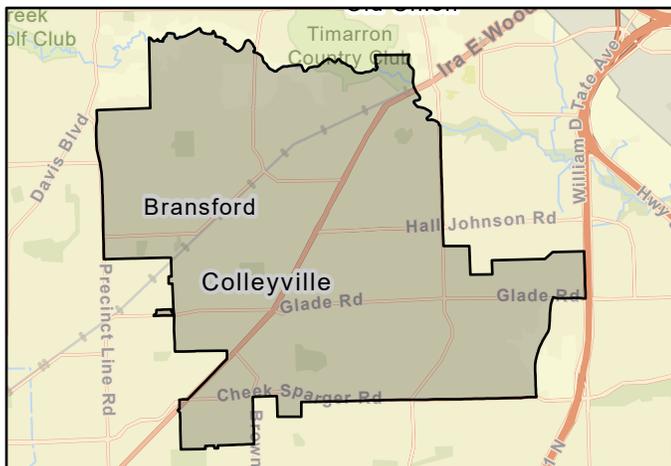
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$225000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Haslet Flood Warning System**

ID# **032000015** Sponsor **03002832**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Install flood warning devices to low water crossing.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301040301,120301040302,120301020703,120301020503** Drainage area (mi<sup>2</sup>, est.) **10**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **103** # of structures **39** Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **528** Roadway(s) impacted (miles) **2**

Number of low water crossings **4** 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 **No** Reduction in # of road closures over 10 years **-**

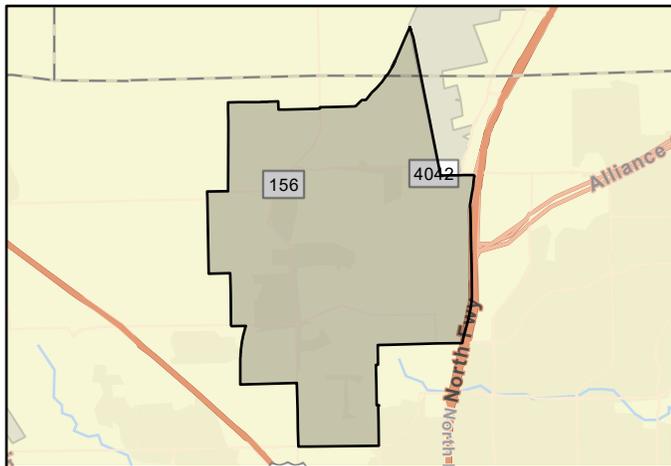
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Additional Rain/Stream Gauges for 13 locations**

ID# **032000016** Sponsor **03002761**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **West Fork Trinity River at MacArthur Blvd, Bowman Creek at Mirabella Blvd, Cottonwood Creek at Robinson Road, Johnson Creek at Duncan Perry Road, Foster Branch at Seeton Road, Mountain Creek at county road FM 661, Carrier Parkway underneath I-20, Robinso**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020603,120301020606,120301020607,120301020601,1203010207**

Drainage area (mi<sup>2</sup>, est.) **81**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **3,471** # of structures **442** Critical facilities **8**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **1,927** Roadway(s) impacted (miles) **40**

Number of low water crossings **19** 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 **No** Reduction in # of road closures over 10 years **-**

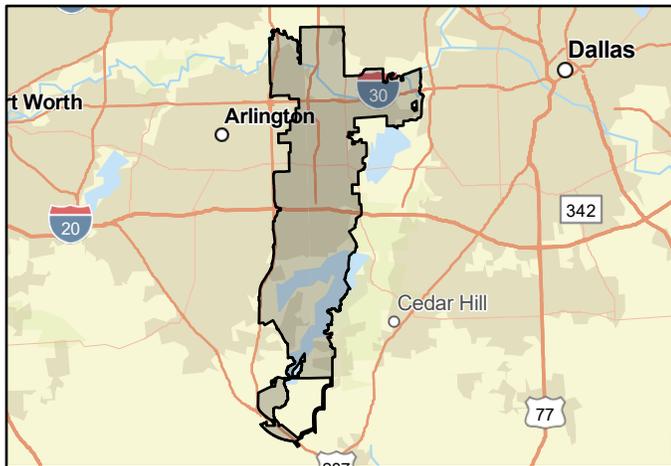
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Additional Low Water Crossing Flashing Lights and Automated Gates**

ID# **032000017** Sponsor **03002761**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Duncan Perry Road between Ave K and Sherwood Drive, Riverside Pkwy LWC (lights already in place need gates added), SW 3rd from Phillips Ct to Dickey Road (gates being added in September 2021)**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020603,120301020606,120301020607,120301020601,1203010207** Drainage area (mi<sup>2</sup>, est.) **81**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **3,471** # of structures **442** Critical facilities **8**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **1,927** Roadway(s) impacted (miles) **40**

Number of low water crossings **19** 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 **No** Reduction in # of road closures over 10 years **-**

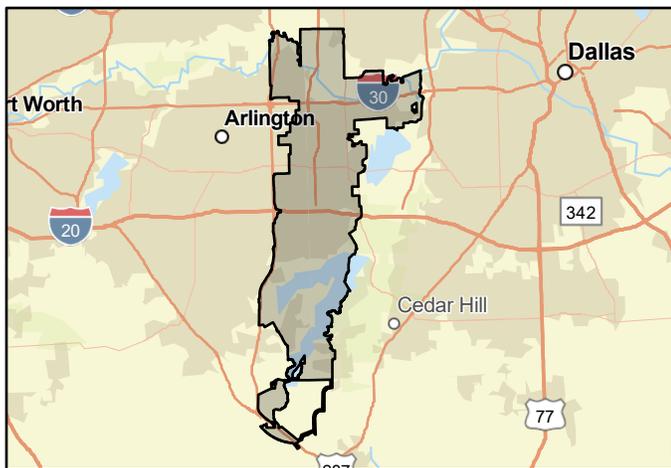
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

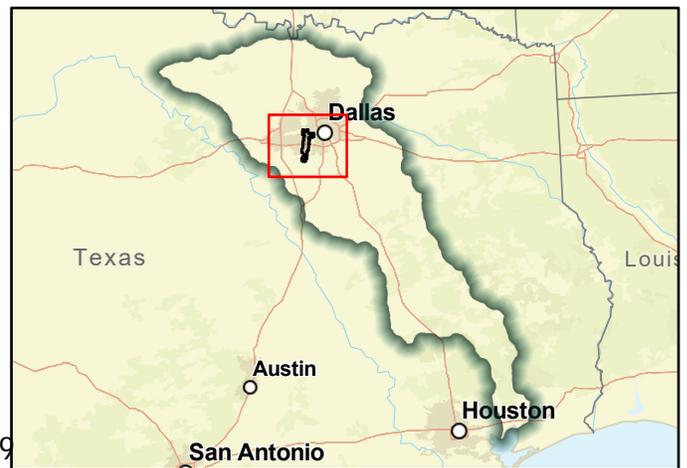
Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Grayson County Flood Warning and Public Safety Improvements**

ID# **032000018** Sponsor **00000190**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Flood Measurement and Warning**

Strategy description **Create improved gauge notification system. Increased Public Awareness prior to occurrences and during flooding.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020603,120301020601,120301020604,120301020605,1203010204** Drainage area (mi<sup>2</sup>, est.) **976**

County **Grayson**

## Existing 100-Year Flood Risk

Population at risk **541** # of structures **436** Critical facilities **5**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **21,311** Roadway(s) impacted (miles) **43**

Number of low water crossings **1** 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 **No** Reduction in # of road closures over 10 years **-**

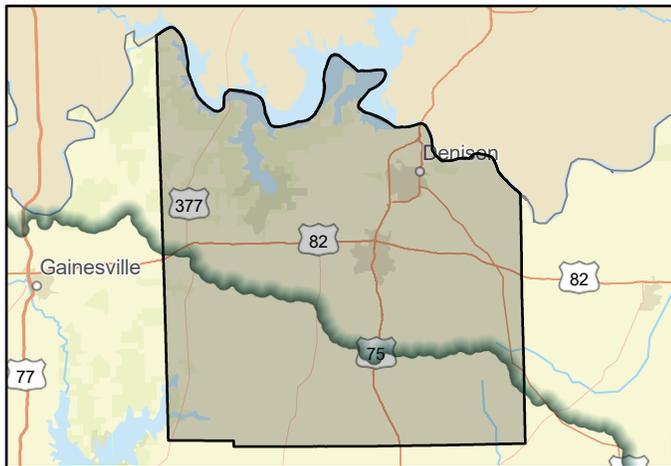
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

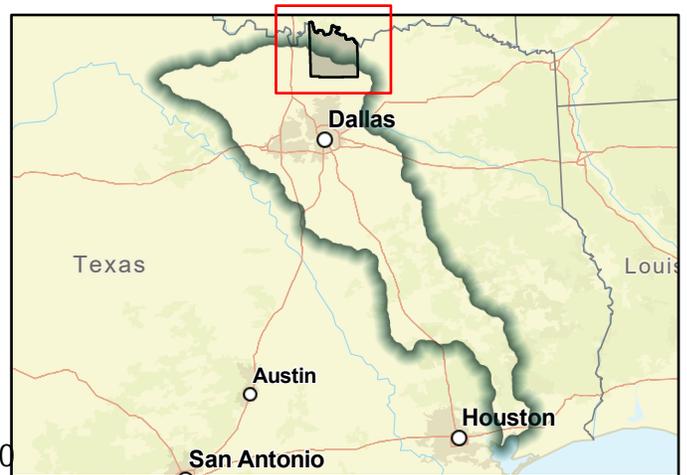
Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Dallas County Floodplain Management**

ID# **032000019** Sponsor **03000225**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Manage the Floodplain beyond the minimum requirements. This action will include developing an incentive program for building above the required freeboard minimum**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030402,120301030404** Drainage area (mi<sup>2</sup>, est.) **905**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **181,697** # of structures **22,225** Critical facilities **369**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **31,558** Roadway(s) impacted (miles) **791**

Number of low water crossings **387** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$1,000,000** Amount of available funding **\$100000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Anderson County Structure Permitting Requirement Update**

ID# **032000020** Sponsor **00000156**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Increase freeboard requirements for permitting structures in the SFHA; Adopt a "no-rise" in BFE in the 100-year floodplain; Update local flood ordinance to prohibit granting of variance in SFHA**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **-** Drainage area (mi<sup>2</sup>, est.) **1,073**

County **Anderson**

## Existing 100-Year Flood Risk

Population at risk **1,408** # of structures **667** Critical facilities **6**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **36,104** Roadway(s) impacted (miles) **73**

Number of low water crossings **6** 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 **No** Reduction in # of road closures over 10 years **-**

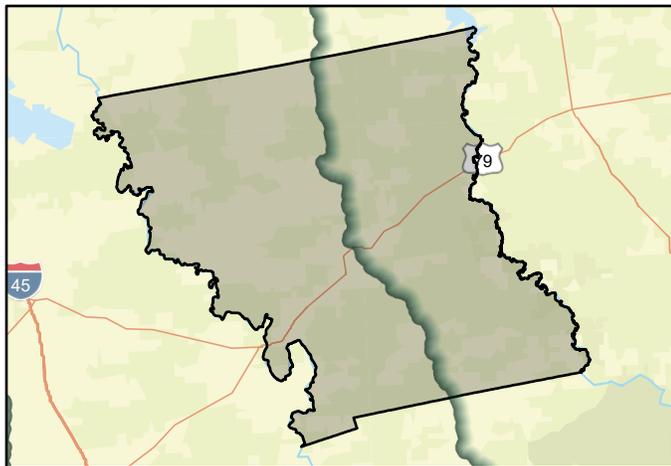
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$-** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Flood Protection Ordinance Updates**

ID# **032000022** Sponsor **03002487, 03002740, 03002414, 03003350,**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Develop and Implement a City and Town flood protection ordinance**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030905,120301030705,120301030904,120301030906,1203010309** Drainage area (mi<sup>2</sup>, est.) **56**

County **Denton**

## Existing 100-Year Flood Risk

Population at risk **1,062** # of structures **381** Critical facilities **22**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **1,614** Roadway(s) impacted (miles) **31**

Number of low water crossings **2** 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 **No** Reduction in # of road closures over 10 years **-**

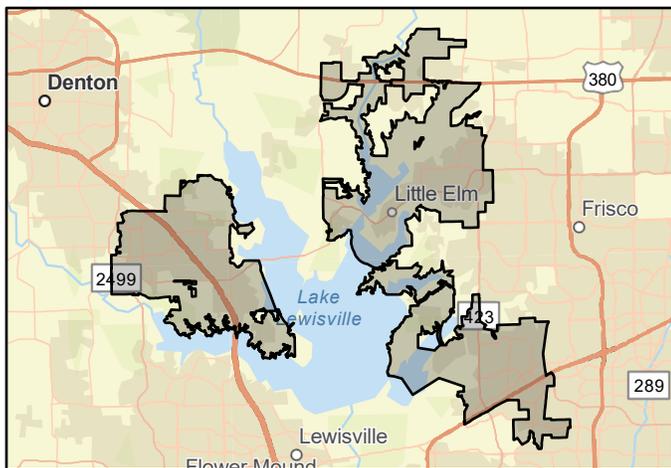
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$-** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Hill County Flooding Regulations Update**

ID# **032000023** Sponsor **00000161**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Catalog, evaluate, and update any floodplain regulations within the City to comply with the latest FEMA regulations.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301080108,120301080106** Drainage area (mi<sup>2</sup>, est.) **982**

County **Hill**

## Existing 100-Year Flood Risk

Population at risk **109** # of structures **127** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **24,902** Roadway(s) impacted (miles) **24**

Number of low water crossings **1** 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 **No** Reduction in # of road closures over 10 years **-**

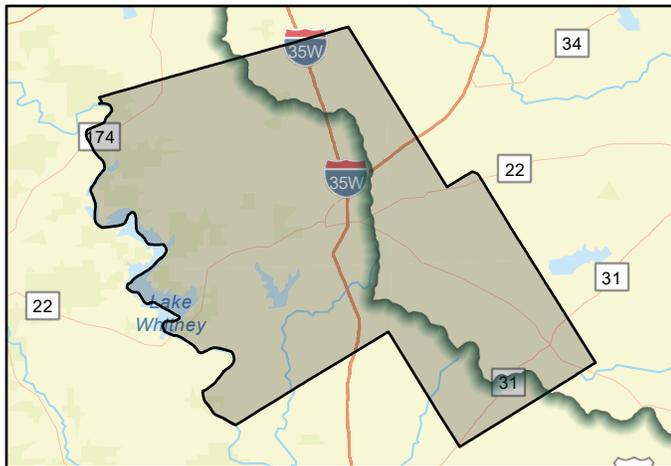
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Freestone County Flood Damage Prevention Ordinance**

ID# **032000024** Sponsor **00000143**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Develop and Implement a Flood Damage Prevention Ordinance**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030402,120301030404** Drainage area (mi<sup>2</sup>, est.) **888**

County **Freestone**

## Existing 100-Year Flood Risk

Population at risk **389** # of structures **557** Critical facilities **3**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **21,753** Roadway(s) impacted (miles) **91**

Number of low water crossings **2** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Caney City Floodproofing Ordinances**

ID# **032000025** Sponsor **03002892**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Implement ordinances to ensure new housing developments meet current floodproofing, as well as ensure that critical facilities owned by jurisdiction are protected from flood.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301070307,120301070309** Drainage area (mi<sup>2</sup>, est.) **1**

County **Henderson**

## Existing 100-Year Flood Risk

Population at risk **4** # of structures **8** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **4** Roadway(s) impacted (miles) **1**

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 **No** Reduction in # of road closures over 10 years **-**

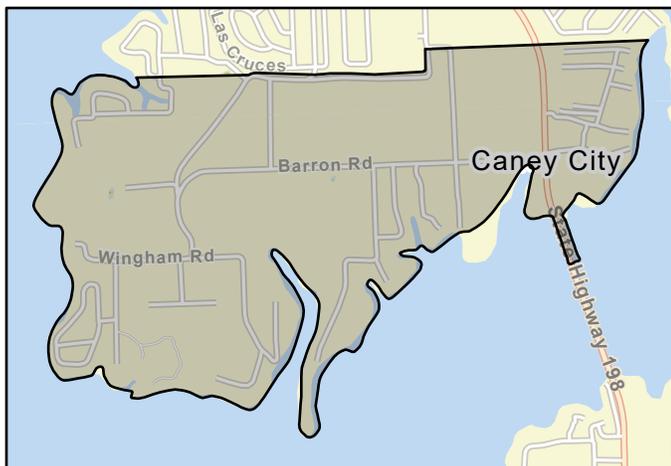
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Leon County Floodplain Construction Restrictions Re-Evaluation**

ID# **032000026** Sponsor **00000132**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **This action proposes a re-evaluation of all existing floodplain construction restrictions to identify strengths and weaknesses in order to reduce future damages during flood events**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301070307,120301070309** Drainage area (mi<sup>2</sup>, est.) **1,076**

County **Leon**

## Existing 100-Year Flood Risk

Population at risk **0** # of structures **0** Critical facilities **6**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **100**

Number of low water crossings **5** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Rockwall County Flood Prevention Ordinance**

ID# **032000027** Sponsor **00000175**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Update Flood Prevention ordinance, adopting a "no-rise" in Base Flood Elevation in the 100-year floodplain**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060409,120301060402,120301060502,120301060401,1201000103** Drainage area (mi<sup>2</sup>, est.) **148**

County **Rockwall**

## Existing 100-Year Flood Risk

Population at risk **1,553** # of structures **411** Critical facilities **3**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **4,485** Roadway(s) impacted (miles) **34**

Number of low water crossings **15** 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 **No** Reduction in # of road closures over 10 years **-**

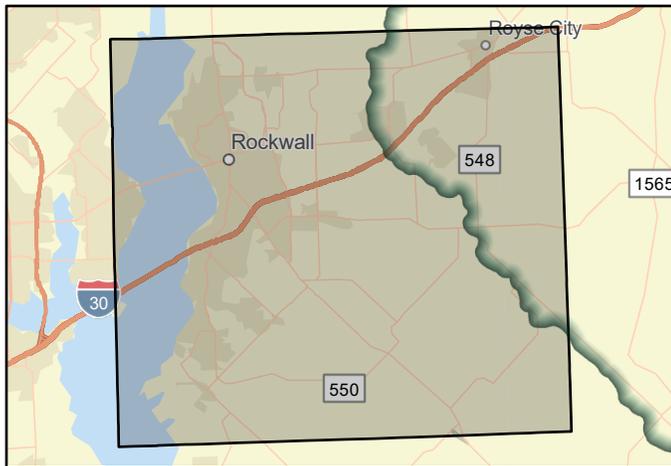
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **San Jacinto County Ordinance to Control Location of Development**

ID# **032000028** Sponsor **00000047, 03003515, 00003513, 03003514**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Strengthen ordinance(s)/code(s) to control location of development, especially in low lying flood hazard areas**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120302021104,120302021105,120401030307,120302021207,1203020212** Drainage area (mi<sup>2</sup>, est.) **10**

County **San Jacinto**

## Existing 100-Year Flood Risk

Population at risk **875** # of structures **270** Critical facilities **4**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **74** Roadway(s) impacted (miles) **7**

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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Montague County Floodplain Policy Update**

ID# **032000029** Sponsor **00000191**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Increase freeboard requirements for permitting structures in the SFHA; Update local flood ordinance to prohibit granting of variance in SFHA**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120302021104,120302021105,120401030307,120302021207,1203020212** Drainage area (mi<sup>2</sup>, est.) **933**

County **Montague**

## Existing 100-Year Flood Risk

Population at risk **0** # of structures **0** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **57**

Number of low water crossings **3** 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 **No** Reduction in # of road closures over 10 years **-**

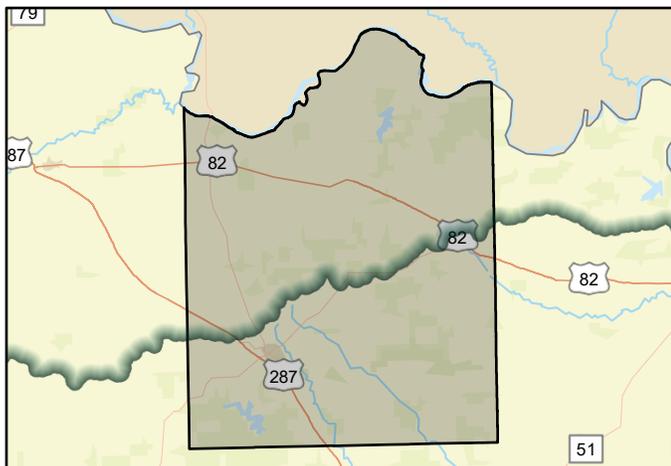
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Town of Westlake's Floodplain Mitigation Ordinances Review**

ID# **032000030** Sponsor **03002860**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Review and enhance the Town of Westlake's floodplain mitigation ordinances and policies as needed**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301040305** Drainage area (mi<sup>2</sup>, est.) **7**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **114** # of structures **17** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **236** Roadway(s) impacted (miles) **2**

Number of low water crossings **3** 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 **No** Reduction in # of road closures over 10 years **-**

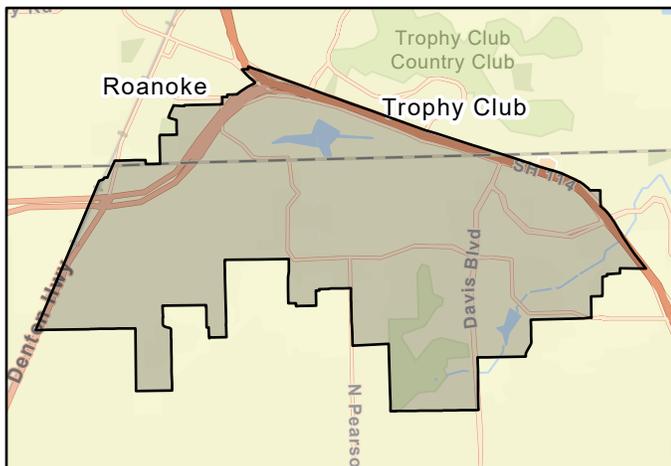
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Wills Point Structure Permitting Requirement Update**

ID# **032000031** Sponsor **00002589**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Increase freeboard requirements for permitting structures in the SFHA; Adopt a "no-rise" in BFE in the 100-year floodplain; Update local flood ordinance**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301070203,120100010501** Drainage area (mi<sup>2</sup>, est.) **2**

County **Van Zandt**

## Existing 100-Year Flood Risk

Population at risk **91** # of structures **25** Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **24** Roadway(s) impacted (miles) **1**

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 **No** Reduction in # of road closures over 10 years **-**

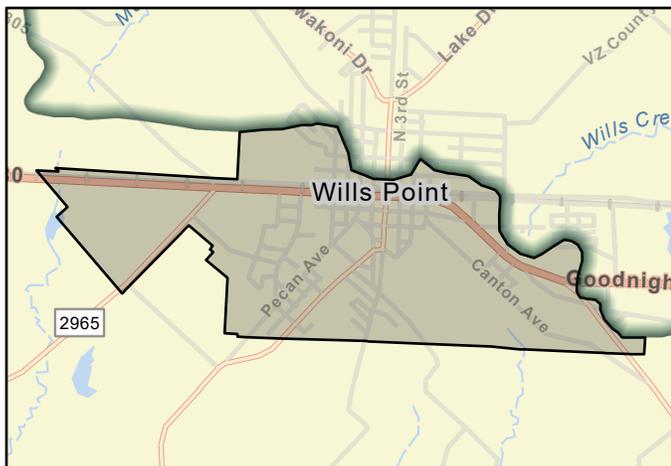
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Valley View Floodplain Regulation Updates**

ID# **032000033** Sponsor **03003212**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Update local ordinances to include regulation of floodplain so that the community may participate in NFIP program.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030402,120301030404** Drainage area (mi<sup>2</sup>, est.) **2**

County **Cooke**

## Existing 100-Year Flood Risk

Population at risk **5** # of structures **7** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **92** Roadway(s) impacted (miles) **1**

Number of low water crossings **2** 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 **No** Reduction in # of road closures over 10 years **-**

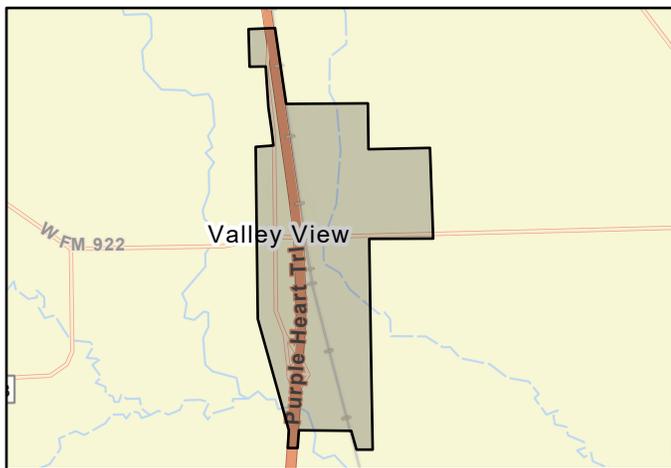
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title

ID#  Sponsor

RFPG recommend?  Reason for Recommendation

## Strategy Details

Strategy type

Strategy description

Associated FME's  Associated FMP's

Associated FMS's

Watershed HUC# (if known)  Drainage area (mi<sup>2</sup>, est.)

County

## Existing 100-Year Flood Risk

Population at risk  # of structures  Critical facilities

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

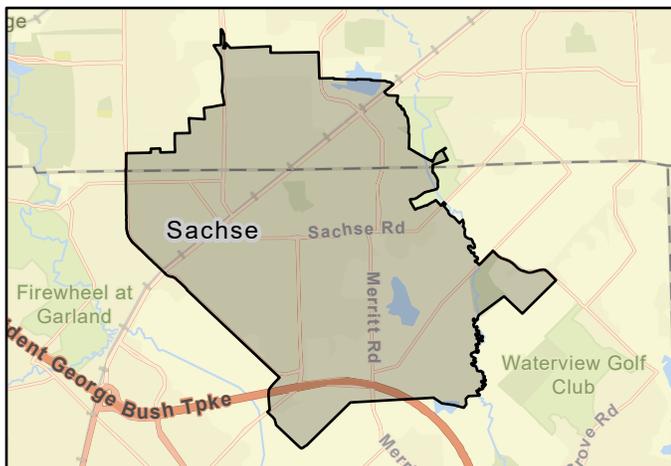
## Impacts

Negative impacts?  Negative impacts description

Water supply contributions?  Water supply contribution description

## Estimated Cost

Strategy Cost  Amount of available funding  % Nature-Based



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Carrollton Targeted Flood Remediation**

ID# **032000035** Sponsor **03003353**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description **Plan for and establish City-owned stand-by contracts for targeted flood remediation of private homes if authorized by City Administration.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301040307,120301031002,120301031005,120301031004,1203010310**

Drainage area (mi<sup>2</sup>, est.) **37**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **15,723** # of structures **1,068** Critical facilities **18**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **617** Roadway(s) impacted (miles) **48**

Number of low water crossings **19** 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 **No** Reduction in # of road closures over 10 years **-**

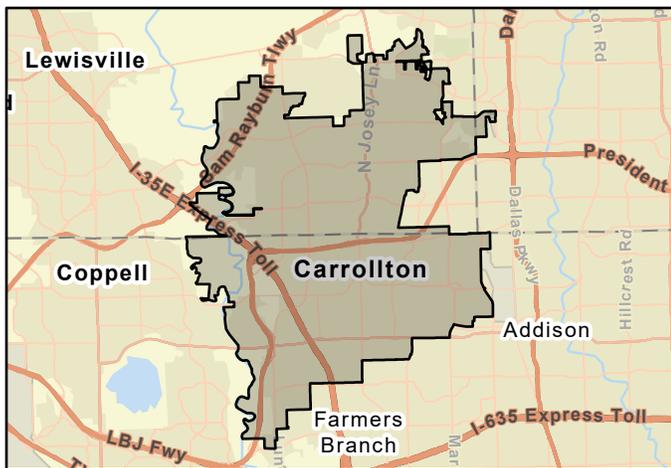
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$5,000,000** Amount of available funding **\$500000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Sunnyvale Floodplain Preservation Program**

ID# **032000036** Sponsor **03002565**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Restrict future development in high risk areas.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060409,120301060501,120301060503** Drainage area (mi<sup>2</sup>, est.) **17**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **164** # of structures **54** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **1,002** Roadway(s) impacted (miles) **6**

Number of low water crossings **2** 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 **No** Reduction in # of road closures over 10 years **-**

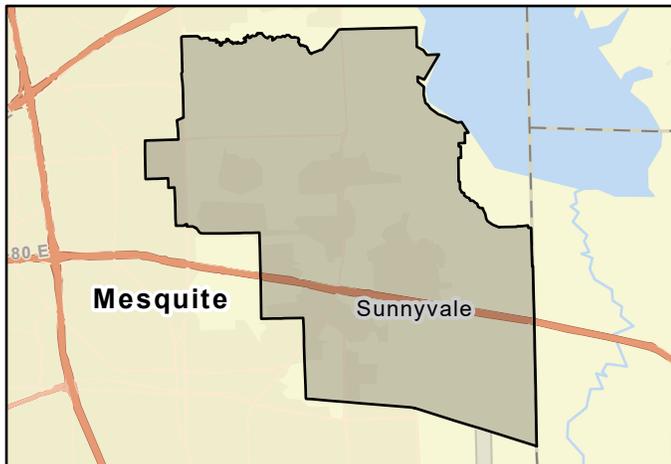
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Itasca Zoning Regulations and Land Use Planning Mechanisms**

ID# **032000037** Sponsor **00002606**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Establish zoning regulations to prohibit residential construction in flood prone areas. Implement strategic land-use planning mechanisms to ensure flood-resistant development occurs in flood-prone areas**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120602020501,120301090107** Drainage area (mi<sup>2</sup>, est.) **1**

County **Hill**

## Existing 100-Year Flood Risk

Population at risk **2** # of structures **4** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **26** Roadway(s) impacted (miles) **0**

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 **No** Reduction in # of road closures over 10 years **-**

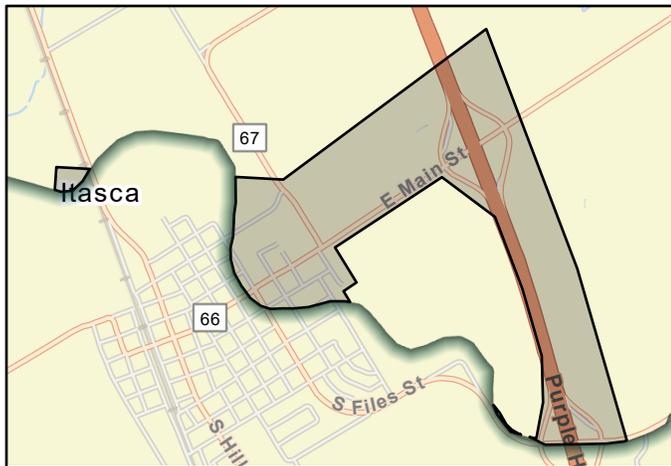
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Kaufman County Regulation Standards to Protect Open Space Flood-Prone Areas**

ID# **032000038** Sponsor **00000108**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type	Regulatory and Guidance		
Strategy description	Conduct program in conjunction with local communities to incorporate regulatory standards to protect open space flood-prone areas		
Associated FME's	-	Associated FMP's	-
Associated FMS's	-	Drainage area (mi <sup>2</sup> , est.)	804
Watershed HUC# (if known)	120301030402,120301030404	County	Kaufman

## Existing 100-Year Flood Risk

Population at risk	4,193	# of structures	2,086	Critical facilities	13
Flood risk type:	Riverine? <b>Yes</b>	Coastal? <b>No</b>	Local? <b>No</b>	Playa? <b>No</b>	Other? <b>No</b>
Farm/Ranch land impacted (acres)	88,118	Roadway(s) impacted (miles)	148		
Number of low water crossings	16	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	<b>No</b>	Reduction in # of road closures over 10 years	-

## Impacts

Negative impacts?	<b>No</b>	Negative impacts description	No negative impact.
Water supply contributions?	<b>No</b>	Water supply contribution description	-

## Estimated Cost

Strategy Cost	\$100,000	Amount of available funding	\$10000	% Nature-Based	100
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FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Tarrant County Promotion of Open Space and LID**

ID# **032000039** Sponsor **00000270**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Promote the inclusion of low impact development requirements in local and regional ordinances**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020403** Drainage area (mi<sup>2</sup>, est.) **900**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **78,224** # of structures **14,853** Critical facilities **163**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **20,063** Roadway(s) impacted (miles) **468**

Number of low water crossings **530** 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 **No** Reduction in # of road closures over 10 years **-**

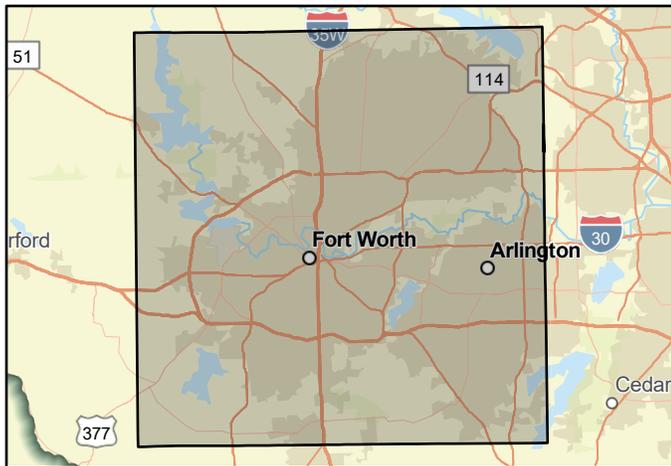
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$500,000** Amount of available funding **\$50000** % Nature-Based **100**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Dallas County Land Use Program**

ID# **032000041** Sponsor **03002820**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Regulatory and Guidance**

Strategy description **Continue to develop and maintain special use parks and green belt areas as flooding mitigation strategies & further prohibiting development in the floodplain.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060406,120301060407,120301050105,120301050104,1203010605** Drainage area (mi<sup>2</sup>, est.) **29**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **613** # of structures **139** Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **81** Roadway(s) impacted (miles) **7**

Number of low water crossings **25** 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 **No** Reduction in # of road closures over 10 years **-**

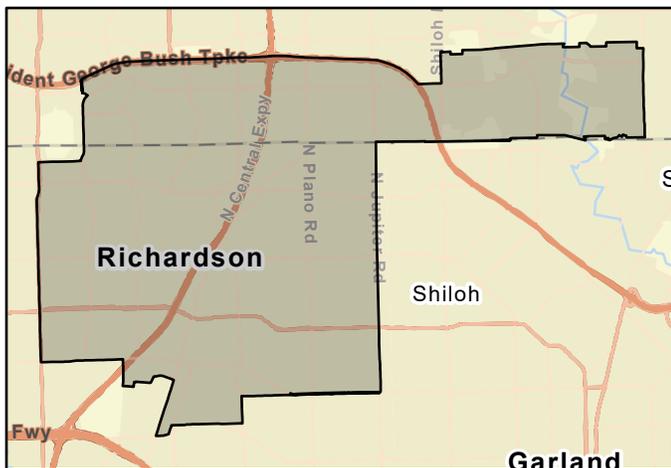
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

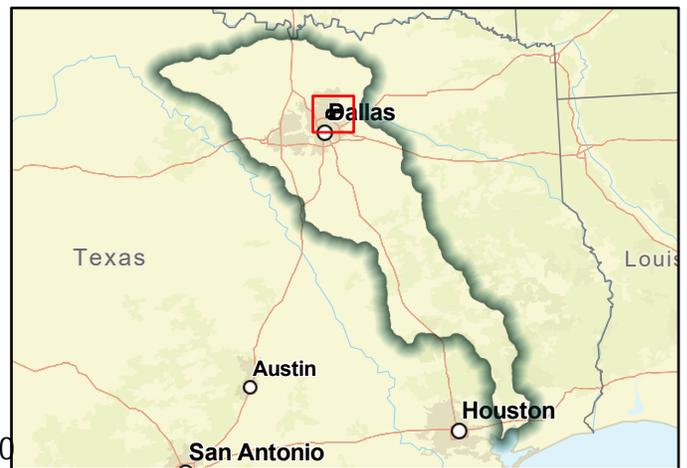
Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **100**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Houston County Maintenance Program**

ID# **032000042** Sponsor **00000128**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Develop a maintenance program to clear debris from bridges, box culverts, and drainage systems throughout. Implement program to clear debris from flood-prone areas, bridges, drains and culverts to prevent overtopping and backup during flash floods**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120602020501,120301090107** Drainage area (mi<sup>2</sup>, est.) **1,232**

County **Houston**

## Existing 100-Year Flood Risk

Population at risk **0** # of structures **0** Critical facilities **5**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **110**

Number of low water crossings **18** 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 **No** Reduction in # of road closures over 10 years **-**

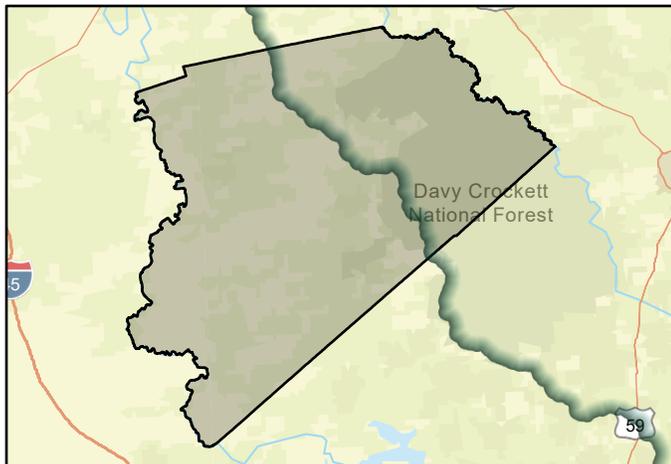
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Kaufman County Agreement to Monitor High Hazard Dams**

ID# **032000043** Sponsor **00000108, 03002666, 03003382, 03003379**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Develop a mutual aid agreement with the City of Terrell, City of Kemp, City of Kaufman to monitor High hazard dams with automated monitor to minimize potential dam failure of the structure**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301030402,120301030404** Drainage area (mi<sup>2</sup>, est.) **804**

County **Kaufman**

## Existing 100-Year Flood Risk

Population at risk **4,193** # of structures **2,086** Critical facilities **13**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **88,118** Roadway(s) impacted (miles) **148**

Number of low water crossings **16** 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 **No** Reduction in # of road closures over 10 years **-**

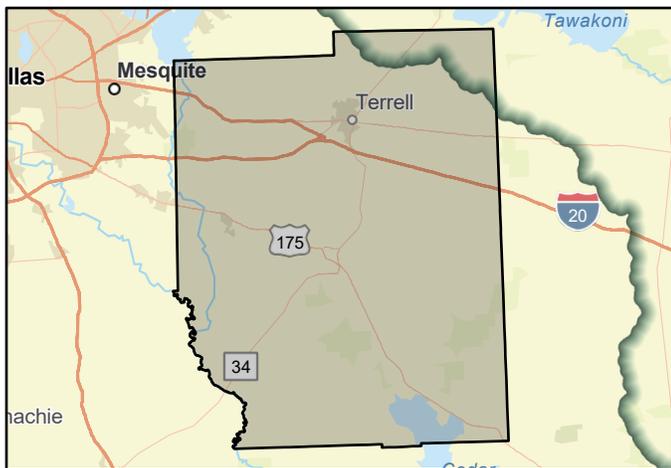
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

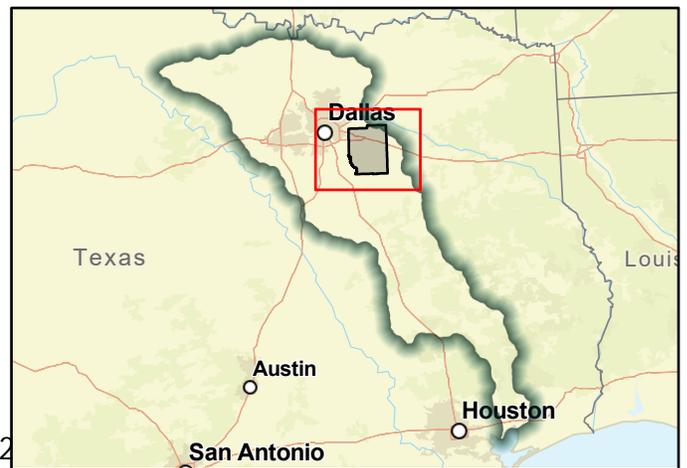
Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$300,000** Amount of available funding **\$30000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Rowlett Creek Tributary Maintenance Program**

ID# **032000044** Sponsor **03003577**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Develop a maintenance program including routine channel maintenance and erosion control for Rowlett Creek Tributary (Stream 2D13). Keep creek and inlets clear of debris and overgrown vegetation.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060409,120301060402,120301060406,120301060407,1203010501** Drainage area (mi<sup>2</sup>, est.) **57**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **7,586** # of structures **1,005** Critical facilities **10**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **627** Roadway(s) impacted (miles) **30**

Number of low water crossings **39** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$250,000** Amount of available funding **\$25000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Addison-Carrollton Debris Cleaning Program**

ID# **032000045** Sponsor **00000156, 03003353**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Develop and implement a program for clearing debris from bridges, drains and culverts.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301040307,120301031002,120301031005,120301031004,1203010310** Drainage area (mi<sup>2</sup>, est.) **42**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **16,581** # of structures **1,081** Critical facilities **18**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **617** Roadway(s) impacted (miles) **49**

Number of low water crossings **19** 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 **No** Reduction in # of road closures over 10 years **-**

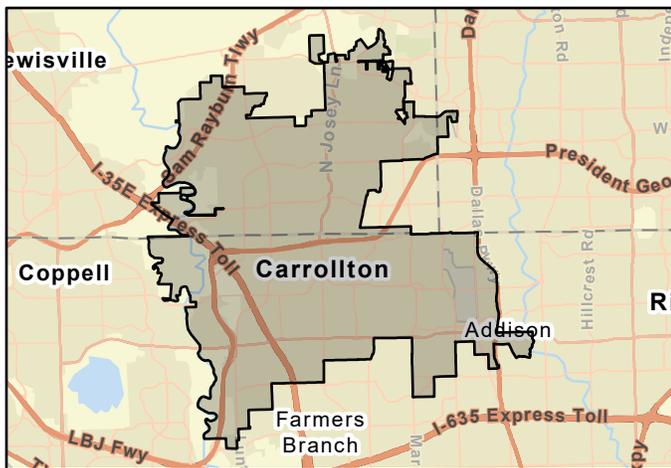
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$100,000** Amount of available funding **\$10000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Navarro County Waterways Clearing**

ID# **032000046** Sponsor **03003281**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Develop a maintenance program to clear waterways of debris and prevent further collection of debris in waterways**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301080403,120301090404,120301090405,120301080404,1203010802** Drainage area (mi<sup>2</sup>, est.) **24**

County **Navarro**

## Existing 100-Year Flood Risk

Population at risk **1,647** # of structures **487** Critical facilities **6**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **797** Roadway(s) impacted (miles) **27**

Number of low water crossings **33** 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 **No** Reduction in # of road closures over 10 years **-**

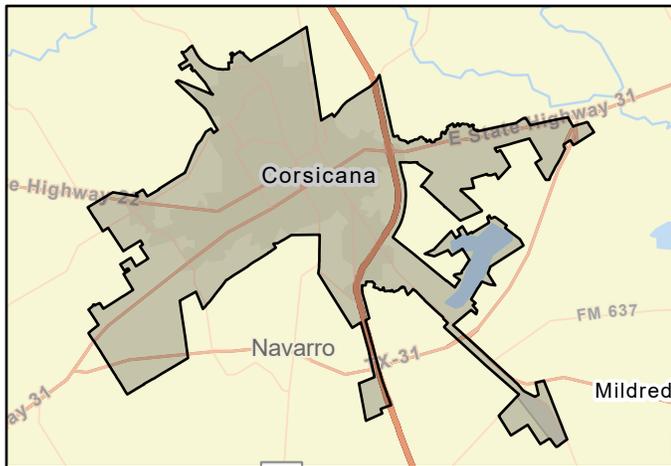
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$75,000** Amount of available funding **\$7500** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Weatherford Biannual Dam Inspection Program**

ID# **032000047** Sponsor **00003292**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Create and implement a biannual inspection program to inspect the city-owned dams to help prevent dam failure**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020205,120602011201,120301020103,120301020203,1203010202** Drainage area (mi<sup>2</sup>, est.) **26**

County **Parker**

## Existing 100-Year Flood Risk

Population at risk **2,170** # of structures **520** Critical facilities **5**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **759** Roadway(s) impacted (miles) **18**

Number of low water crossings **6** 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 **No** Reduction in # of road closures over 10 years **-**

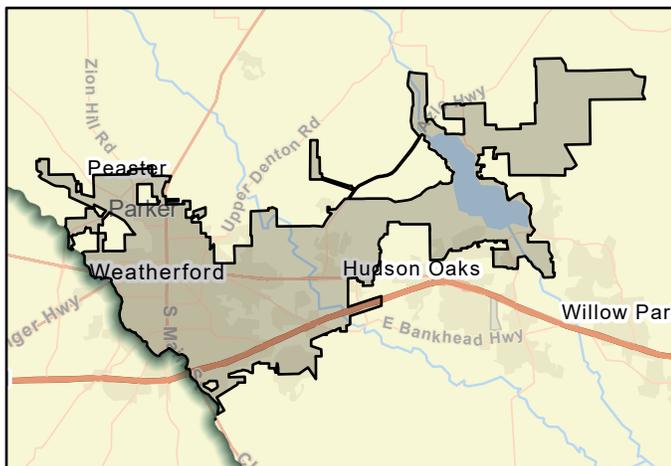
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$50,000** Amount of available funding **\$5000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Richland Hills Semi-Annual Levee Inspections**

ID# **032000048** Sponsor **03003560**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Other**

Strategy description **Prepare an inspection program of the levee to look for any maintenance problems or levee failure issues**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301020506,120301020505,120301020503** Drainage area (mi<sup>2</sup>, est.) **3**

County **Tarrant**

## Existing 100-Year Flood Risk

Population at risk **1,882** # of structures **404** Critical facilities **2**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **4** Roadway(s) impacted (miles) **7**

Number of low water crossings **15** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$50,000** Amount of available funding **\$-** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Hazard Hardening Retrofit for Polk County Facilities**

ID# **032000050** Sponsor **00000058, 03002554, 03003502, 03002519,**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description **Flood-proofing, impact resistant windows, storm shutters, roof straps, structural bracing, low-flow plumbing fixtures, roll-up door reinforcement, grounding systems, surge-protection, data back-up systems, plumbing reinforcement and insulation, heat resi**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120302020601,120302020504** Drainage area (mi<sup>2</sup>, est.) **1,112**

County **Polk**

## Existing 100-Year Flood Risk

Population at risk **2,681** # of structures **1,797** Critical facilities **31**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **13,977** Roadway(s) impacted (miles) **95**

Number of low water crossings **3** 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 **No** Reduction in # of road closures over 10 years **-**

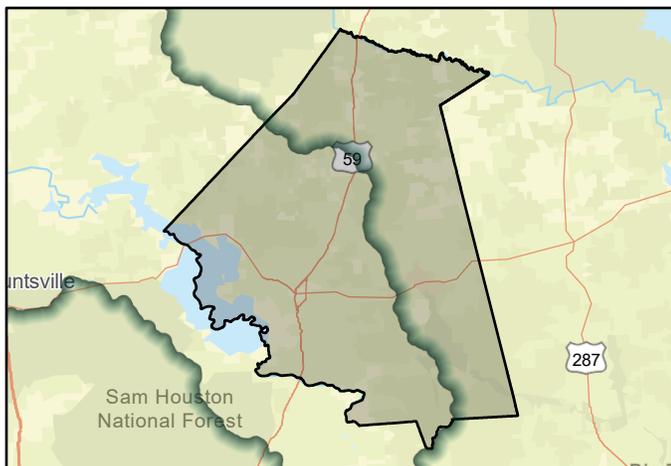
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$30,000,000** Amount of available funding **\$3000000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Acquire and Protect Red Oak Creek, Bentle Branch Creek, and Balcones Escarpment**

ID# **032000051** Sponsor **03002747**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type	<b>Property Acquisition and Structural Elevation</b>		
Strategy description	<b>Acquire areas in the floodplain and protect environmentally sensitive areas and convert them into open space land</b>		
Associated FME's	-	Associated FMP's	-
Associated FMS's	-	Drainage area (mi <sup>2</sup> , est.)	<b>32</b>
Watershed HUC# (if known)	<b>120301020603,120301050301,120301020606,120301050201,1203010903</b>		County
			<b>Dallas</b>

## Existing 100-Year Flood Risk

Population at risk	<b>3,969</b>	# of structures	<b>315</b>	Critical facilities	<b>3</b>
Flood risk type:	Riverine? <b>Yes</b>	Coastal? <b>No</b>	Local? <b>No</b>	Playa? <b>No</b>	Other? <b>No</b>
Farm/Ranch land impacted (acres)	<b>216</b>	Roadway(s) impacted (miles)	<b>17</b>		
Number of low water crossings	<b>1</b>	Historical road closures	<b>0</b>		

## 100-Year Flood Risk Reduction

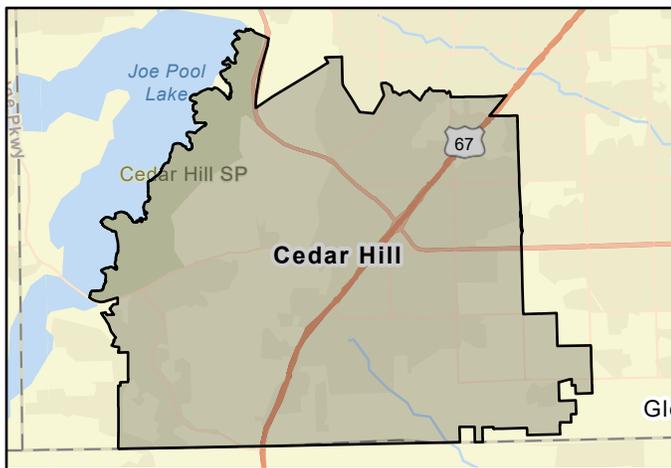
Population removed from 100-yr	-	# of structures removed from 100-yr	-
Critical facilities removed from 100-yr	-	Farm/Ranch land removed from 100-yr (acres)	-
Road removed from 100-yr (miles)	-	Low water crossings removed from 100-yr	-
Other benefits	<b>Acquire areas in the floodplain and protect</b>		Reduction in # of road closures over 10 years
			-

## Impacts

Negative impacts?	<b>No</b>	Negative impacts description	<b>No negative impact.</b>
Water supply contributions?	<b>No</b>	Water supply contribution description	-

## Estimated Cost

Strategy Cost	<b>\$5,000,000</b>	Amount of available funding	<b>\$500000</b>	% Nature-Based	<b>100</b>
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FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Ten Mile Creek Comprehensive Loss Reduction Program**

ID# **032000052** Sponsor **03002564**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description **Develop a comprehensive loss reduction program, involving buy outs and relocation in areas along Ten Mile Creek to reduce losses and repetitive damages. Buyout structures that are in the floodplain. Land Acquisition for repetitive loss structures**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301050107,120301050201,120301050202,120301050108,1203010503** Drainage area (mi<sup>2</sup>, est.) **33**

County **Dallas**

## Existing 100-Year Flood Risk

Population at risk **3,800** # of structures **316** Critical facilities **3**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **562** Roadway(s) impacted (miles) **13**

Number of low water crossings **14** 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 **No** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$5,000,000** Amount of available funding **\$500000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Midway Property Acquisition and Elevation Program**

ID# **032000053** Sponsor **03002815**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description **Acquire existing homes located in the identified special flood hazard area (the 100-year floodplain).**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120302020601,120302020504** Drainage area (mi<sup>2</sup>, est.) **1**

County **Madison**

## Existing 100-Year Flood Risk

Population at risk **6** # of structures **2** Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **42** Roadway(s) impacted (miles) **0**

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 **No** Reduction in # of road closures over 10 years **-**

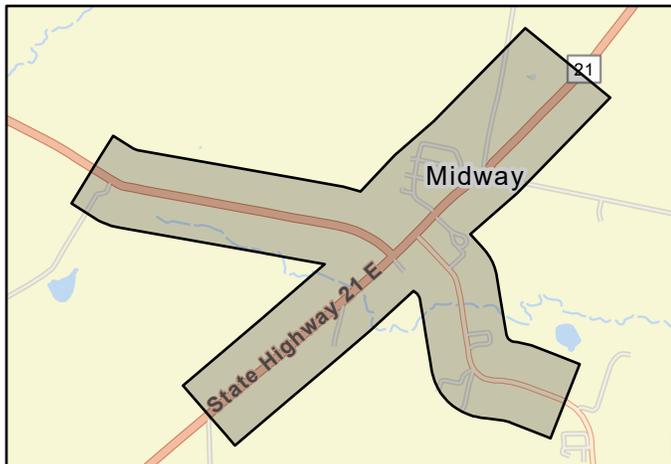
## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$5,000,000** Amount of available funding **\$500000** % Nature-Based **0**



FMS area



Regional view of FMS area

# Flood Management Strategy (FMS)



Title **Montague County Property Acquisition and Land Preservation Program**

ID# **032000054** Sponsor **00000191**

RFPG recommend? **Yes** Reason for Recommendation **Action aligns with goals and meets TWDB guidance**

## Strategy Details

Strategy type **Property Acquisition and Structural Elevation**

Strategy description **Acquire and preserve open space adjacent to floodplain areas.**

Associated FME's **-** Associated FMP's **-**

Associated FMS's **-**

Watershed HUC# (if known) **120301060406,120301060408,120301060403** Drainage area (mi<sup>2</sup>, est.) **933**

County **Montague**

## Existing 100-Year Flood Risk

Population at risk **0** # of structures **0** Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (miles) **57**

Number of low water crossings **3** 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 **Acquire and preserve open space adjacent to** Reduction in # of road closures over 10 years **-**

## Impacts

Negative impacts? **No** Negative impacts description **No negative impact.**

Water supply contributions? **No** Water supply contribution description **-**

## Estimated Cost

Strategy Cost **\$5,000,000** Amount of available funding **\$500000** % Nature-Based **100**



FMS area



Regional view of FMS area