



**March 15, 2022**





1. Call to order



## 2. Roll call



## 3. Approval of minutes



## 4. Acknowledgement of written comments received



## 5. Public comments on agenda items



## 6. Consultant update



# CONSULTANT UPDATE

- Overview and Approach to Chapter 5 Recommendation of FME, FMP, and FMS
- Technical Sub-Committee Involvement and Roles
- Assessment & Guidance for Recommendations of FME, FMP, FMS
- Emergency Needs Assessment





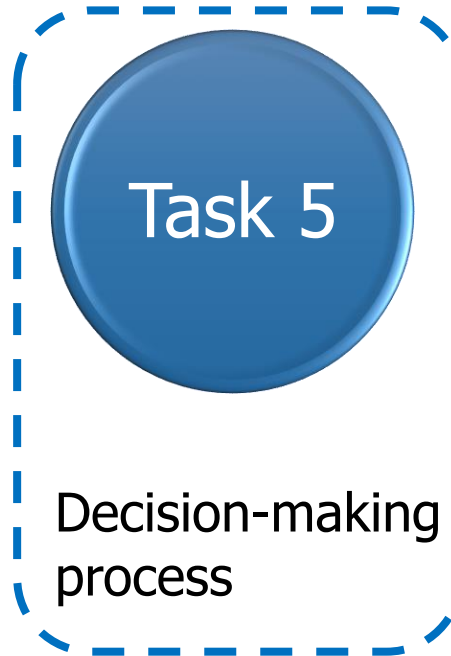
**Task 5**  
**Recommendation**  
**of FME, FMP, and**  
**FMS**

# Purpose



Task  
4B

Data  
Gathering  
Analysis



Task 5

Decision-making  
process



Recommended  
Actions  
FME, FMP, FMS

# Today's General Workflow

TC Presentation

TC Questions for  
Subcommittee

Subcommittee Input



# Questions for Later Discussion

## Decision-making

- Subcommittee Y/N on each FMX
- Guidance provided to TC for Y/N

## Selection Philosophy

- Select only RFPG priority FMXs
- Include all eligible FMXs

## Local Sponsor

- Verify an entity's willingness to sponsor FMX
- "Assign" Sponsors, option to decline later

## Additions

- New FMEs
- New FMSs

# Findings Summary

## Flood Management Evaluations

 **282**  
Count

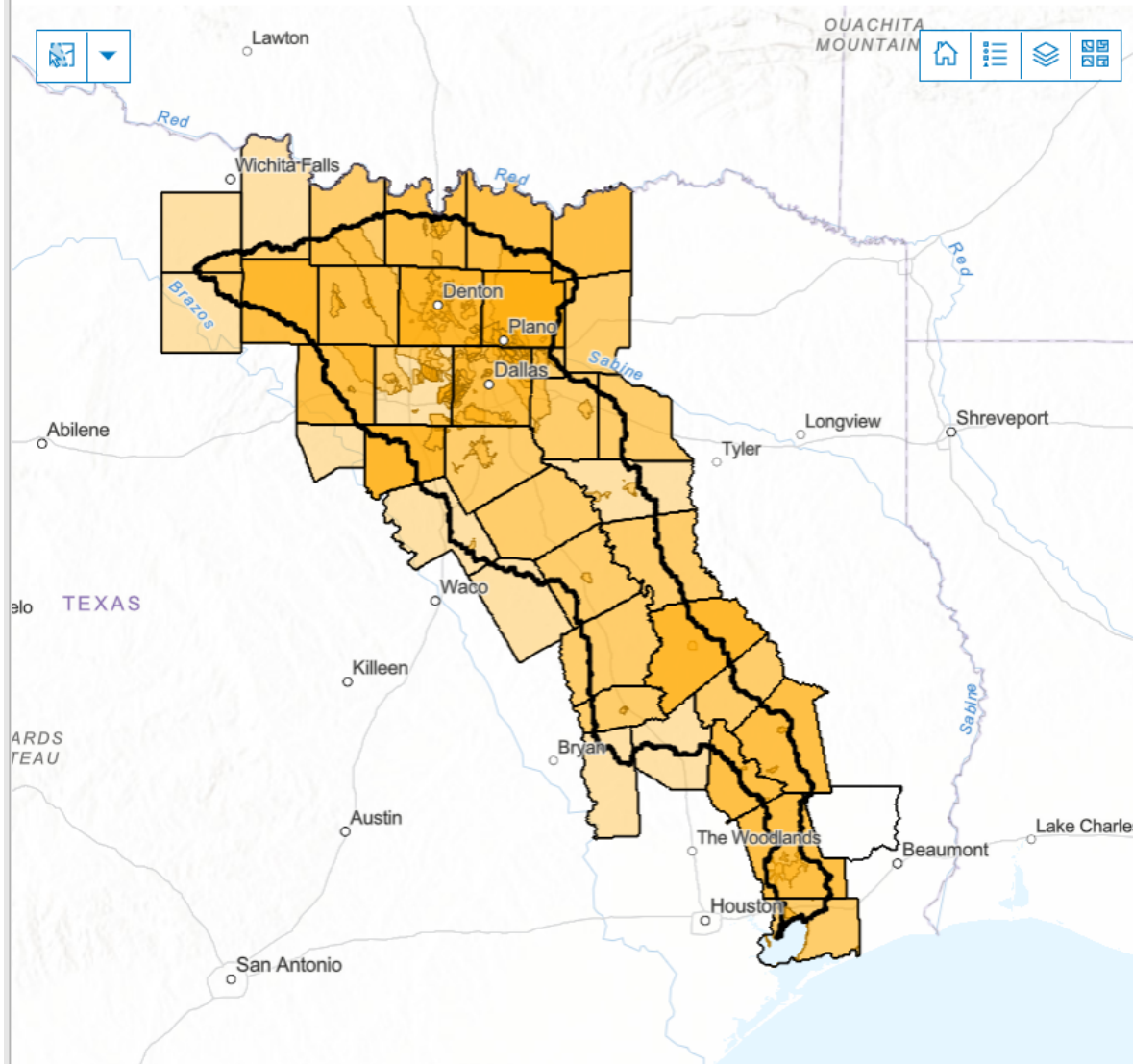
## Flood Mitigation Projects

 **29**  
Count

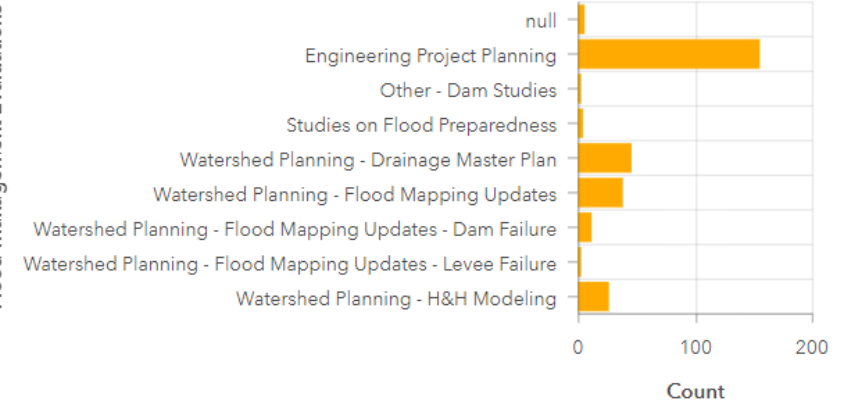
## Flood Management Strategies

 **101**  
Count

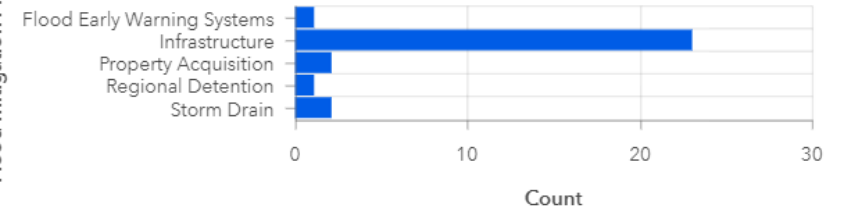
**Disclaimer:** This dashboard displays DRAFT data prepared for Region 3 as part of the Texas Regional Flood Planning process. This information is an interim working product for the RFPG and will not become final until formally adopted by the RFPG as part of the Final Regional Flood Plan in January 2023.



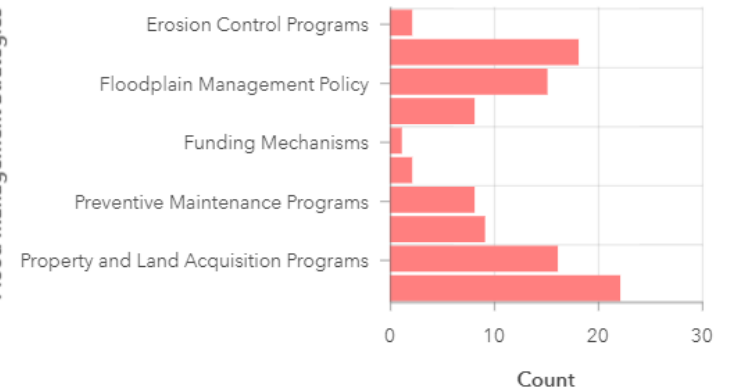
### Flood Management Evaluations



### Flood Mitigation Projects



### Flood Management Strategies



# Flood Management Evaluations (FME)

## TWDB Requirements

**Definition:** Proposed flood study of a specific, flood-prone area that is needed in order to assess flood risk and/or determine whether there are potentially feasible FMSs or FMPs.

1. Identify and investigate solutions to mitigate the 1% annual chance flood.
2. Support a specific RFPG Goal.
3. Are most likely to result in identification of potentially feasible FMPs or FMSs for the next cycle.

# Flood Management Evaluations (FME)

## Sources

- Survey responses for flood prone areas
- Results of Flood Risk Evaluation (Task 2)
  - Structures, Low water crossings
- Results of Needs Analysis (Task 4A)
- Hazard Mitigation Action Plans (HMAP)
- FIF applications not chosen for funding
- County or City Drainage Master Plan
- Direct communication with Sponsors
- RFPG



# Flood Management Evaluations (FME)

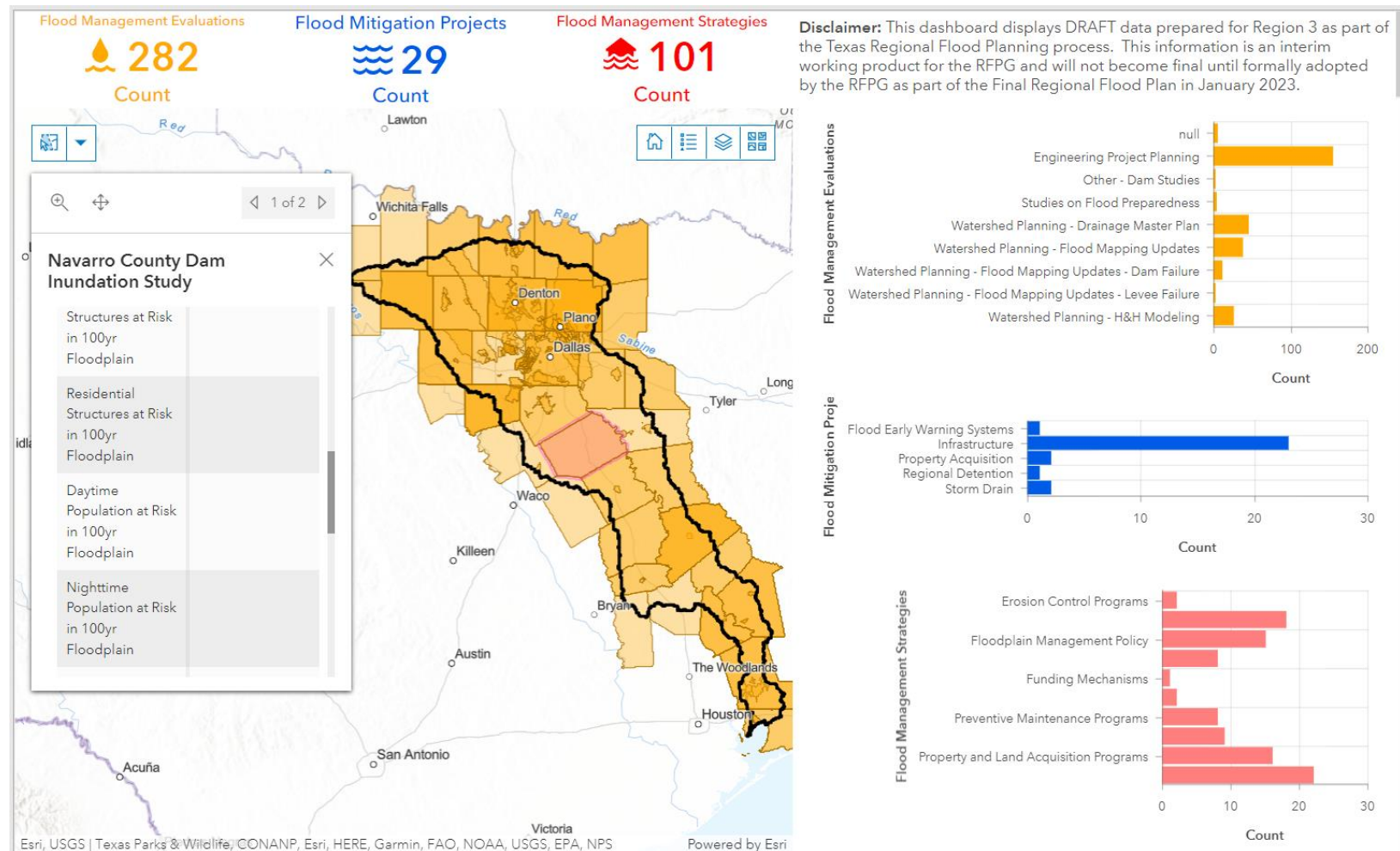
## FME Categories

- Watershed Planning
  - Drainage Master Plan
  - Flood Mapping Updates
    - FIS
    - Dam Failure
    - Levee Failure
  - H&H Modeling
- Dam Studies
- Flood Preparedness Studies
- Engineering Project Planning
  - Channelization
  - Culvert Improvements
  - Erosion Control
  - Low Water Crossing
  - Road/Bridge Improvements
  - Storm Drain Improvements
  - Stream Stabilization
  - Other



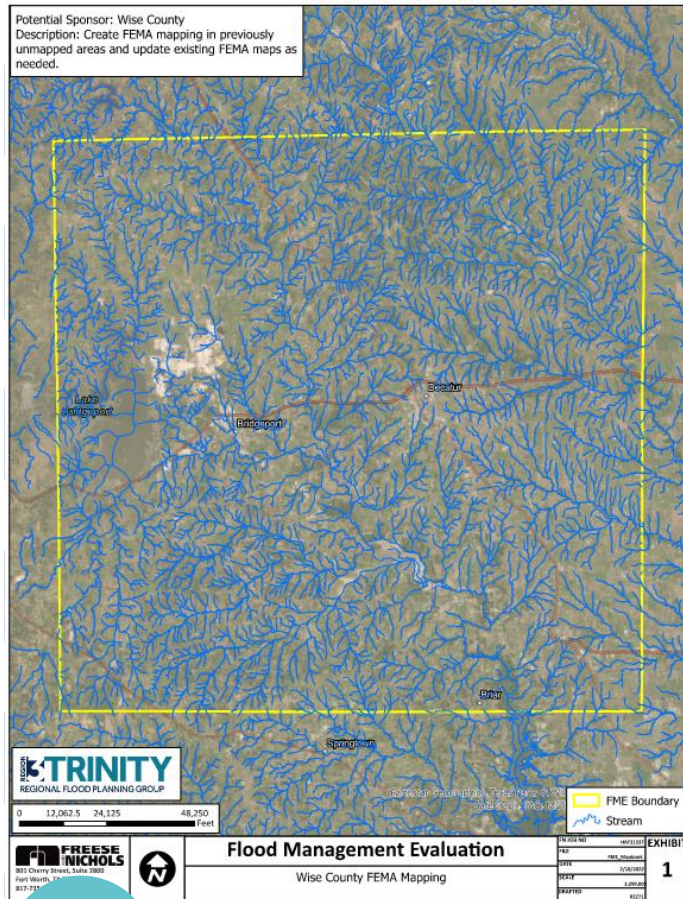
# Flood Management Evaluations (FME)

## Geographical Distribution & Flood Risk Indicators



# Flood Management Evaluations (FME)

## Assessment Examples



Recommend



Not Recommend

# Flood Management Evaluations (FME)

## Assessment Examples

- Known reasons to Not Recommend an FME:

- Study has been already performed
- Study already has allocated funding

**X Not Recommend**

- Additional RFPG reasons to Not Recommend an FME:

- RFPG has not contacted potential Sponsor?
- Entity is not willing to sponsor the FME?
- Others?



# **Sub-Committee Guidance for FME Recommendations**

# Flood Mitigation Projects (FMP)

## TWDB Requirements

1. Identify and investigate solutions to mitigate the 1% annual chance flood.  
\* Lower level of service (LOS) is acceptable.
2. Support a specific RFPG Goal.
3. Mitigation projects only (response and recovery projects are not eligible).
4. Detailed H&H modeling results must be available to determine:
  - Quantifiable flood risk reduction benefits
  - No negative impacts to neighboring areas
5. Discrete projects (not entire capital program or drainage master plan).
6. May not negatively impact an entities water supply.
7. May not result in overallocation of a water source.

# Flood Mitigation Projects (FMP)

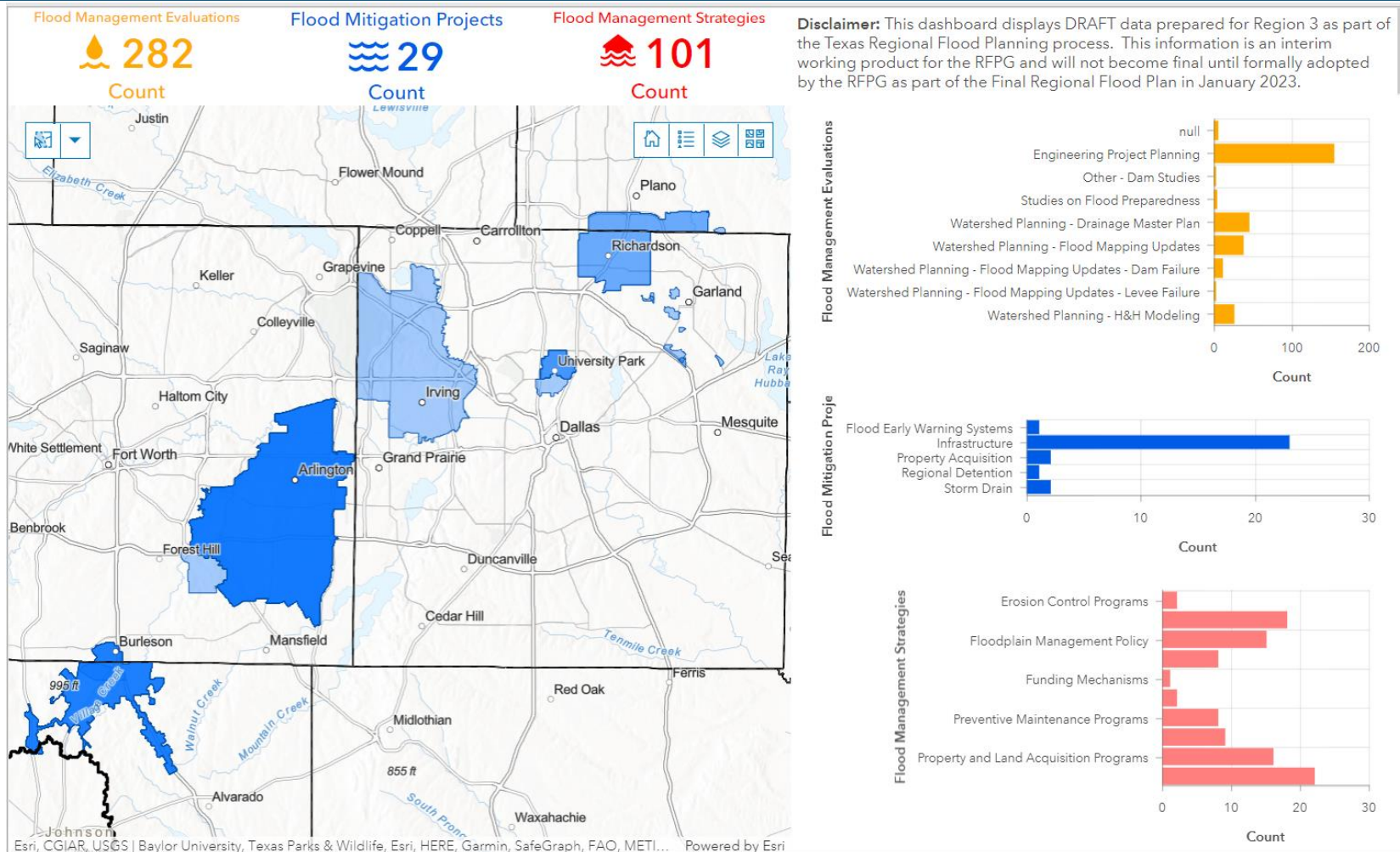
## Sources

- Survey responses
- FIF applications not chosen for funding
- County or City Drainage Master Plans
- Direct communication with Sponsors



# Flood Mitigation Projects (FMP)

## Geographical Distribution & Categories



# Flood Mitigation Projects (FMP)

## Assessment Examples



Existing Conditions 100-yr Floodplain



100-yr Floodplain after FMP implementation (new detention pond)



**Recommend**



# Flood Mitigation Projects (FMP)


## Assessment Examples

- Known reasons to Not Recommend an FMP:
  - Negative/Adverse impact identified
  - Impacts to water supply
  - Doesn't provide measurable reduction in flood impacts
  - Hydrologic and Hydraulic models are insufficient (demote)
- Additional RFPG reasons to Not Recommend an FMP:
  - RFPG has not contacted potential Sponsor?
  - Entity is not willing to sponsor the FME?
  - Known opposition?
  - Others?

 **Not Recommend**



# **Sub-Committee Guidance for FMP Recommendations**



BREAK (10-min)



# Flood Management Strategies (FMS)

## TWDB Requirements

1. Identify and investigate solutions to mitigate the 1% annual chance flood.  
\* Lower level of service (LOS) is acceptable.
2. Support a specific RFPG Goal.
3. Quantifiable flood risk reduction benefits (as applicable).
4. No negative impacts to neighboring areas.
5. May not negatively impact an entities water supply.
6. May not result in overallocation of a water source.

# Flood Management Strategies (FMS)

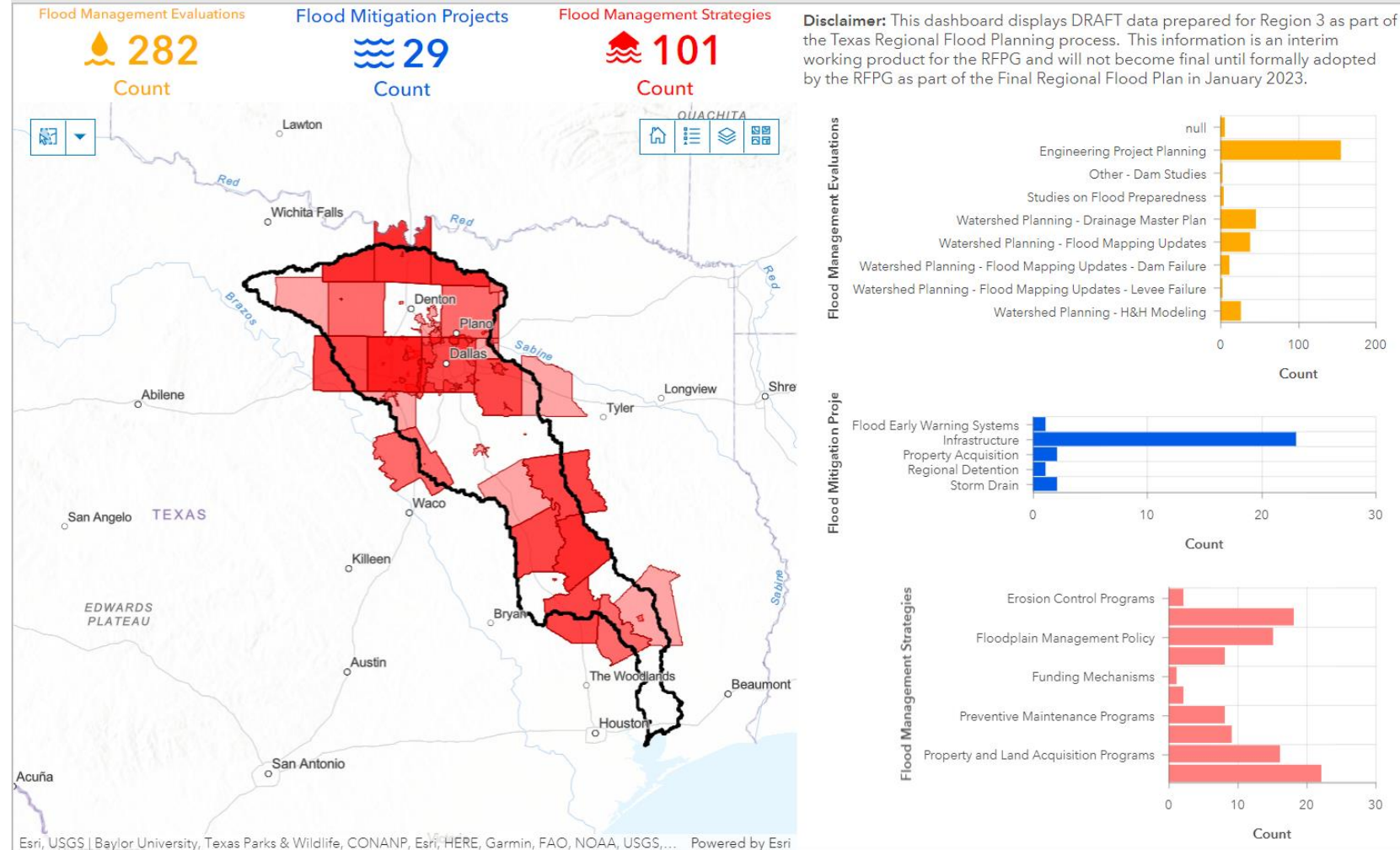
## Sources

- Survey responses
- Needs assessment
- Hazard Mitigation Action Plans
- Direct communication with Sponsors
- RFPG



# Flood Management Strategies (FMS)

## Geographical Distribution & Categories

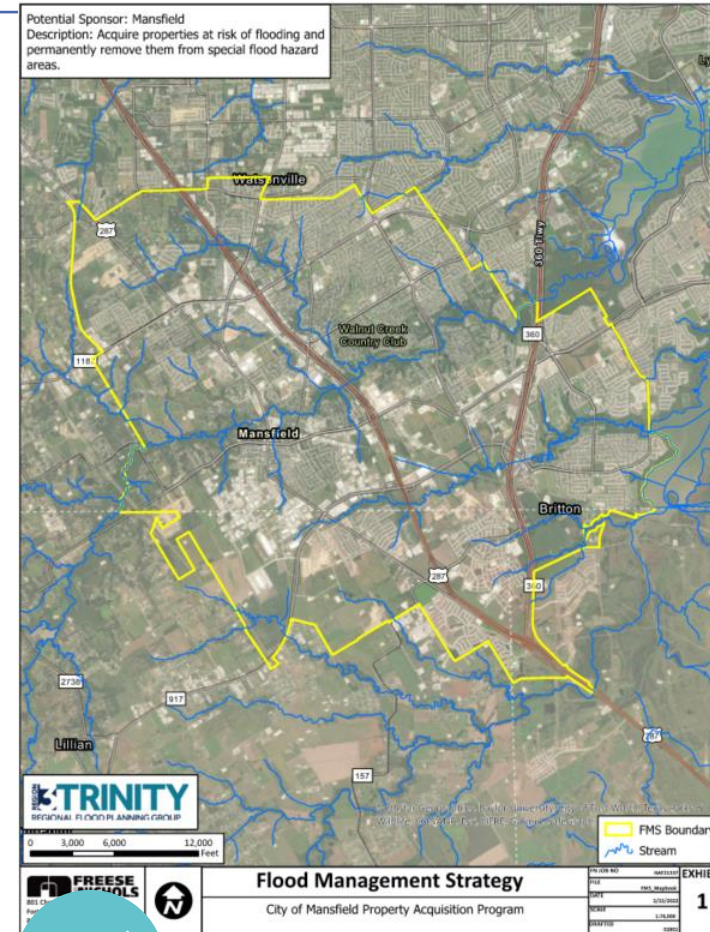


# Flood Management Strategies (FMS)

## Assessment Examples



Recommend



Recommend

# Flood Management Strategies (FMS)

## Assessment Examples

- RFPG is not required to recommend any FMS
- Known reasons to Not Recommend an FMS:
  - Negative/adverse impact identified
  - Impacts to water supply
  - Doesn't provide measurable reduction in flood impacts
- Additional RFPG reasons to Not Recommend an FMP
  - RFPG has not contacted potential Sponsor?
  - Entity is not willing to sponsor the FME?
  - Others?
- All identified FMSs for the Trinity Basin are potentially feasible and could be recommended.

 **Not Recommend**





**Sub-Committee  
Guidance for FMS  
Recommendations**



# **Emergency Needs Assessment**



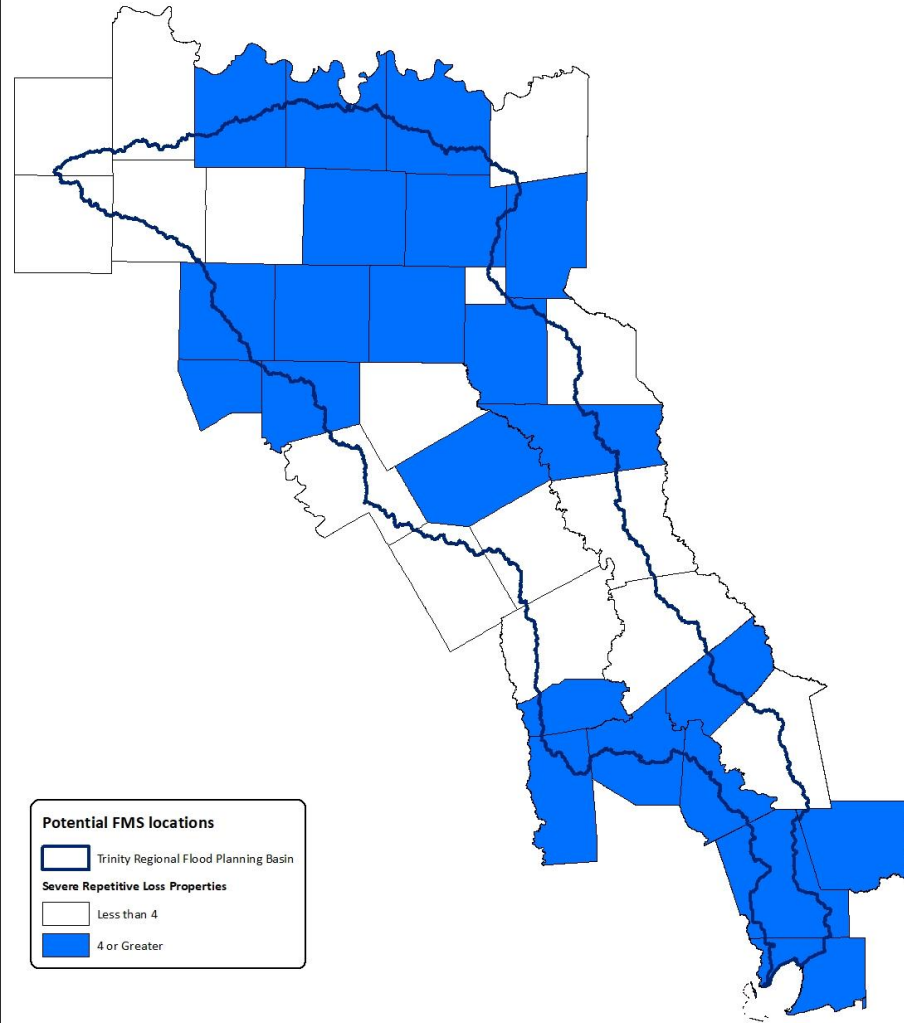
# Emergency Need

Areas that have a history of severe and/or repetitive flooding

Areas with critical structures within the 1% annual chance flood area

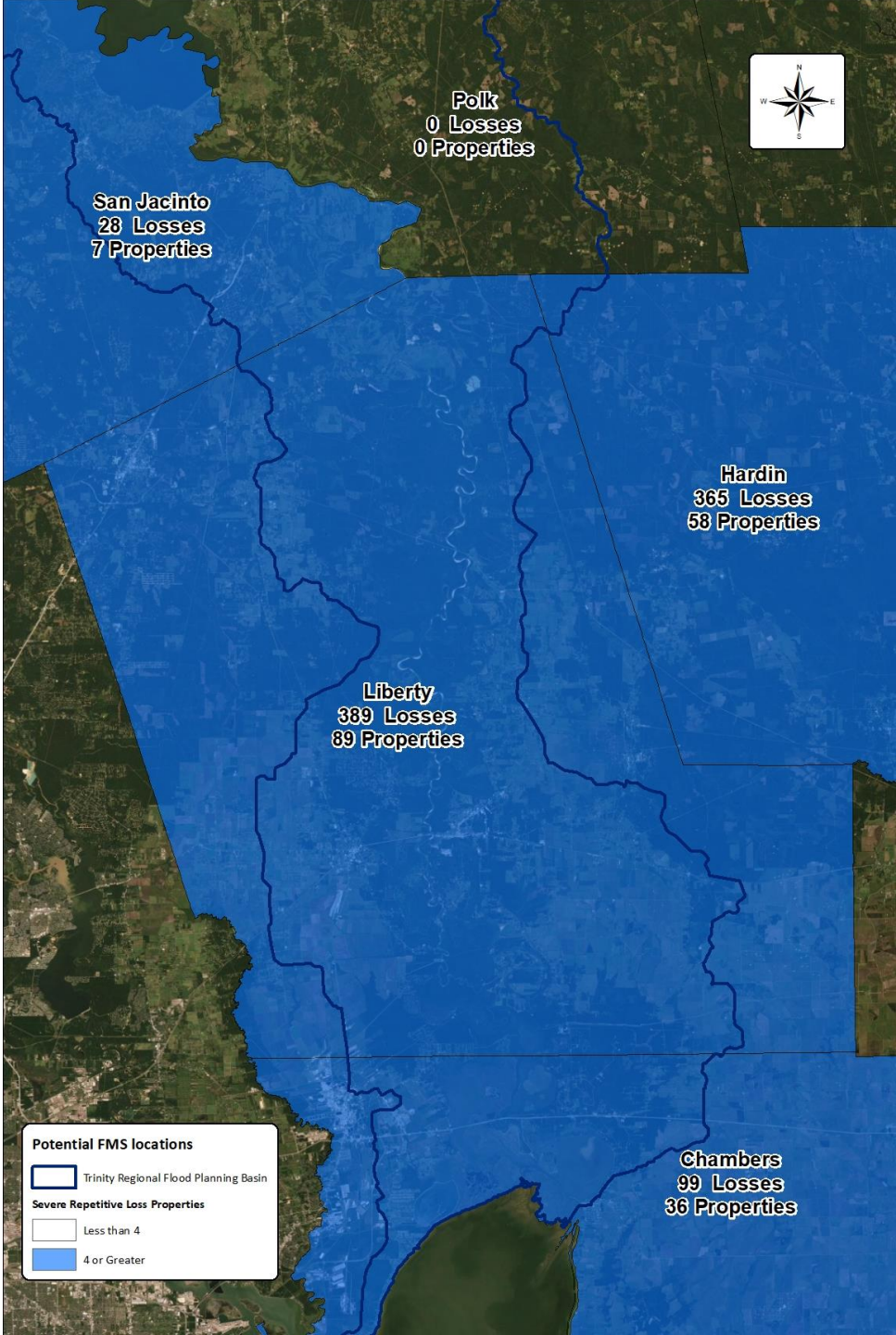
# Severe Repetitive Loss

- Single Family property
- 4 or more claims payments have been made
- Each claim exceeding \$5000
- Cumulative claim payments exceeding \$20,000



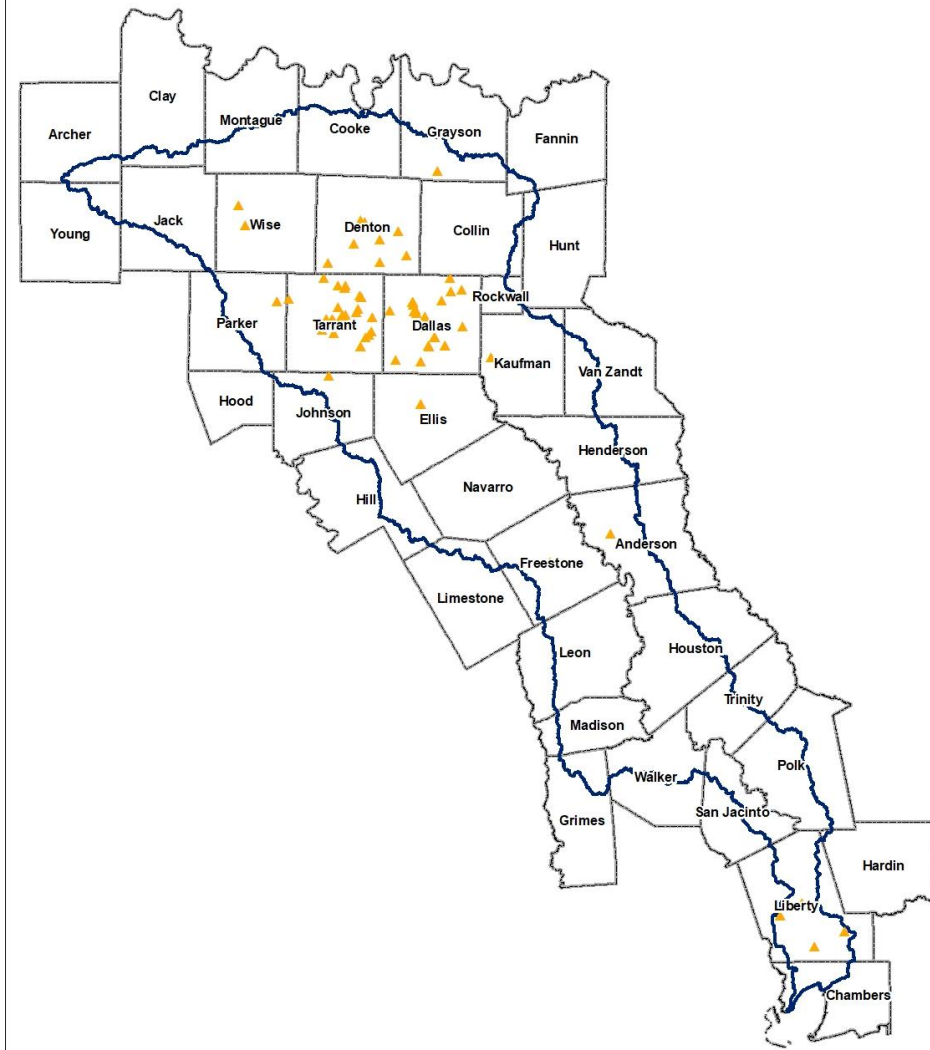
# Severe Repetitive Loss

- Acquisition/demolition/elevation



# Critical Facilities within the 1% annual chance flood area

- Schools
- Emergency Shelters
- Fire Stations
- Hospitals

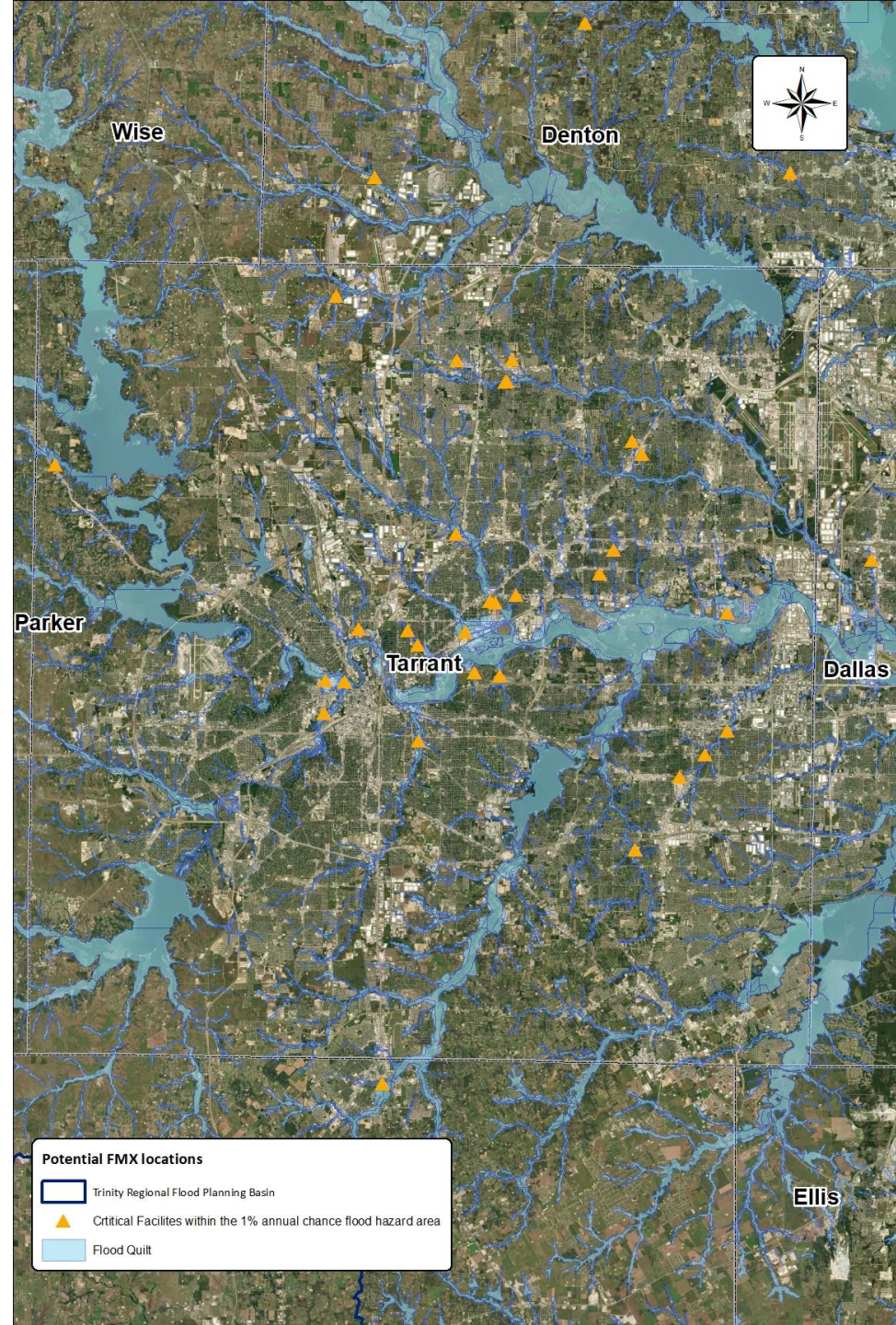


**Potential FMX locations**

- Trinity Regional Flood Planning Basin
- Critical Facilities within the 1% annual chance flood hazard area

# Critical Facilities within the 1% annual chance flood area

- Acquisition/demolition/elevation
- Infrastructure improvements
- Floodproofing/retrofitting






# EMERGENCY NEED

*Areas that would sustain negative impacts within the foreseeable future were no measures taken.*



A person's hands are shown from the wrist down, palms up, holding a glowing digital space. The space is filled with various white line-art icons on a light blue background. The icons include a camera, a lightbulb, an envelope, a house, a padlock, a clock, a question mark, a location pin, a smartphone, a magnifying glass, a hand, a speech bubble, a play button, a gear, a person, and a checkmark. The text 'Action Items' is written in a bold, dark teal font across the center of the hands. A vertical teal line is positioned to the left of the text.

# Action Items



# 7. General public comments

Limit 3 minutes per person



# 8. Announcements



9. Meeting date for next meeting



# 10. Agenda items for next meeting



11. Adjourn

**Table 12. Potential Flood Management Evaluations Identified by RFPG**

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor
031000001	Archer County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Archer				Watershed Planning - Flood Mapping Updates	922.9	Riverine, Urban	Archer County
031000002	Anderson County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Anderson				Watershed Planning - Flood Mapping Updates	1073.7	Riverine, Urban	Anderson County
031000003	Chambers County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Chambers				Watershed Planning - Flood Mapping Updates	629.9	Riverine, Urban, Coastal	Chambers County
031000004	Clay County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Clay				Watershed Planning - Flood Mapping Updates	1107.9	Riverine, Urban	Clay County
031000005	Collin County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Collin				Watershed Planning - Flood Mapping Updates	883.4	Riverine, Urban	Collin County
031000006	Cooke County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Cooke				Watershed Planning - Flood Mapping Updates	893.2	Riverine, Urban	Cooke County
031000007	Denton County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Denton				Watershed Planning - Flood Mapping Updates	948.7	Riverine, Urban	Denton County
031000008	Ellis County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Ellis				Watershed Planning - Flood Mapping Updates	948.0	Riverine, Urban	Ellis County
031000009	Fannin County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Fannin				Watershed Planning - Flood Mapping Updates	897.0	Riverine, Urban	Fannin County
031000010	Freestone County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Freestone				Watershed Planning - Flood Mapping Updates	888.4	Riverine, Urban	Freestone County
031000011	Grayson County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Grayson				Watershed Planning - Flood Mapping Updates	976.7	Riverine, Urban	Grayson County
031000012	Grimes County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Grimes				Watershed Planning - Flood Mapping Updates	798.9	Riverine, Urban	Grimes County
031000013	Henderson County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Henderson				Watershed Planning - Flood Mapping Updates	945.0	Riverine, Urban	Henderson County
031000014	Hill County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Hill				Watershed Planning - Flood Mapping Updates	982.0	Riverine, Urban	Hill County
031000015	Hood County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Hood				Watershed Planning - Flood Mapping Updates	438.7	Riverine, Urban	Hood County
031000016	Houston County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Houston				Watershed Planning - Flood Mapping Updates	1232.1	Riverine, Urban	Houston County
031000017	Hunt County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Hunt				Watershed Planning - Flood Mapping Updates	879.4	Riverine, Urban	Hunt County
031000018	Jack County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Jack				Watershed Planning - Flood Mapping Updates	917.6	Riverine, Urban	Jack County
031000019	Johnson County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Johnson				Watershed Planning - Flood Mapping Updates	731.0	Riverine, Urban	Johnson County
031000020	Kaufman County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Kaufman				Watershed Planning - Flood Mapping Updates	804.6	Riverine, Urban	Kaufman County
031000021	Leon County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Leon				Watershed Planning - Flood Mapping Updates	1076.1	Riverine, Urban	Leon County
031000022	Liberty County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Liberty				Watershed Planning - Flood Mapping Updates	1169.8	Riverine, Urban	Liberty County
031000023	Limestone County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Limestone				Watershed Planning - Flood Mapping Updates	929.1	Riverine, Urban	Limestone County
031000024	Madison County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Madison				Watershed Planning - Flood Mapping Updates	470.1	Riverine, Urban	Madison County
031000025	Montague County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Montague				Watershed Planning - Flood Mapping Updates	933.4	Riverine, Urban	Montague County
031000026	Navarro County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Navarro				Watershed Planning - Flood Mapping Updates	1081.6	Riverine, Urban	Navarro County
031000027	Parker County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Parker				Watershed Planning - Flood Mapping Updates	903.0	Riverine, Urban	Parker County
031000028	Polk County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Polk				Watershed Planning - Flood Mapping Updates	1105.9	Riverine, Urban	Polk County
031000029	Rockwall County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Rockwall				Watershed Planning - Flood Mapping Updates	148.1	Riverine, Urban	Rockwall County
031000030	San Jacinto County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	San Jacinto				Watershed Planning - Flood Mapping Updates	625.7	Riverine, Urban	San Jacinto County
031000031	Trinity County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Trinity				Watershed Planning - Flood Mapping Updates	710.0	Riverine, Urban	Trinity County
031000032	Van Zandt County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Van Zandt				Watershed Planning - Flood Mapping Updates	856.4	Riverine, Urban	Van Zandt County
031000033	Walker County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Walker				Watershed Planning - Flood Mapping Updates	797.8	Riverine, Urban	Walker County

03100034	Wise County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Wise				Watershed Planning - Flood Mapping Updates	919.8	Riverine, Urban	Wise County
03100035	Young County FEMA Mapping	Create FEMA mapping in previously unmapped areas and update existing FEMA mapping as needed.	2A	Young				Watershed Planning - Flood Mapping Updates	927.7	Riverine, Urban	Young County
03100036	East Fork Trinity HUC-8 - East Fork Trinity and Tributaries Flood Risk Identification	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Grayson , Fannin , Hunt , Collin , Rockwall , Dallas , Kaufman				Watershed Planning - Flood Mapping Updates	5494.5		NCTCOG
03100037	Denton HUC-8 - Hog Branch Flood Risk Identification	Create FEMA mapping in previously unmapped areas and update existing FEMA maps as needed.	2A	Denton				Watershed Planning - Flood Mapping Updates	948.7		NCTCOG
03100038	Collin County Dam Inundation Study	Inundation studies of all high and moderate hazard dams	2C, 5B	Collin				Watershed Planning - Flood Mapping Updates - Dam Failure	883.4	Riverine, Urban	Collin County
03100039	Chambers County Dam/Levee Failure Inundation Map Updates	Update dam and levee failure inundation maps.	2C, 5B	Chambers				Watershed Planning - Flood Mapping Updates - Dam Failure	629.9	Riverine, Urban, Coastal	Chambers County, Anahuac, Beach City, Mount Belvieu, Cove, Chambers-Liberty Counties Navigation District, and Old-River-Winfree
03100040	Dallas County Dam Inundation Study	Conduct studies to develop dam inundation maps and models	2C, 5B	Dallas				Watershed Planning - Flood Mapping Updates - Dam Failure	905.2	Riverine, Urban	Dallas County
03100041	Lake Ray Hubbard and Duck Creek Tributary Inundation Study	Conduct studies to develop inundation maps for Lake Ray Hubbard and Duck Creek Tributary and how it affects the Town of Sunnyvale.	2A, 2B	Dallas				Watershed Planning - Flood Mapping Updates - Dam Failure	1299.1	Riverine, Urban	Town of Sunnyvale
03100042	Denton County Dam Inundation Study	Inundation studies of all high and moderate hazard dams	2C, 5B	Denton				Watershed Planning - Flood Mapping Updates - Dam Failure	948.7	Riverine, Urban	Denton County
03100043	Ellis County Dam Inundation Study	Inundation studies of all high and moderate hazard dams	2C, 5B	Ellis				Watershed Planning - Flood Mapping Updates - Dam Failure	948.0	Riverine, Urban	Ellis County, Alma, Bardwell, Ennis, Ferris, Garrett, Italy, Maypearl, Midlothian, Milford, Oak Leaf, Ovilla, Palmer, Red Oak, Waxahachie
03100044	Madison County Dam Inundation Study	Create dam failure inundation maps	2C, 5B	Madison				Watershed Planning - Flood Mapping Updates - Dam Failure	470.1	Riverine, Urban	Madison County
03100045	Navarro County Dam Inundation Study	Conduct inundation studies of all high and moderate hazard dams.	2C, 5B	Navarro				Watershed Planning - Flood Mapping Updates - Dam Failure	1081.6	Riverine, Urban	Navarro County, Corsicana, Kerens
03100046	Parker County Dam Inundation Study	Conduct a dam inundation study	2C, 5B	Parker				Watershed Planning - Flood Mapping Updates - Dam Failure	903.0	Riverine, Urban	Parker County, Willow Park
03100047	Tarrant County Dam Inundation Study	Identify and evaluate high hazard dams.	1, 2C, 5B	Tarrant				Watershed Planning - Flood Mapping Updates - Dam Failure	900.6	Riverine, Urban	Fort Worth, Tarrant County
03100048	Irving Levee District Flood Risk Assessment	Conduct review of the area in the four levee districts that would be inundated by a levee failure. Analyze all available routes out of the Levee Districts and any new streets that would not be flooded.	2C, 5B	Dallas				Watershed Planning - Flood Mapping Updates - Levee Failure	67.8		Irving
03100049	West Fork of the Trinity River Levee Failure Hydrologic Study	Hydrologic study to determine threat, risk, and potential impacts of flooding from levee failure along the West Fork of the Trinity River.	2C, 5B	Tarrant				Watershed Planning - Flood Mapping Updates - Levee Failure	2104.3	Riverine, Urban	River Oaks
03100050	City of Lavon DMP	Evaluate City and identify future projects.	2B, 2C	Collin				Watershed Planning - Drainage Master Plan	3.0	Riverine, Urban	Lavon
03100051	University Park DMP	Evaluate City and identify future projects.	2B, 2C	Dallas				Watershed Planning - Drainage Master Plan	3.7	Riverine, Urban	University Park
03100052	City of Rowlett DMP	Evaluate City and identify future projects.	2B, 2C	Dallas				Watershed Planning - Drainage Master Plan	20.5	Riverine, Urban	Rowlett
03100053	City of Richardson DMP	Evaluate City and identify future projects.	2B, 2C	Dallas				Watershed Planning - Drainage Master Plan	28.5	Riverine, Urban	Richardson
03100054	City of Cockrell Hill, City of Sunnyvale, City of Wilmer DMP	Evaluate City and identify future projects.	2B, 2C	Dallas				Watershed Planning - Drainage Master Plan	25.4	Riverine, Urban	Cockrell Hill, Sunnyvale, Wilmer
03100055	City of Aubrey DMP	Evaluate City and identify future projects.	2B, 2C	Denton				Watershed Planning - Drainage Master Plan	2.9	Riverine, Urban	Aubrey
03100056	City of Argyle DMP	Evaluate City and identify future projects.	2B, 2C	Denton				Watershed Planning - Drainage Master Plan	11.5	Riverine, Urban	Argyle
03100057	City of Maypearl DMP	Evaluate City and identify future projects.	2B, 2C	Ellis				Watershed Planning - Drainage Master Plan	0.8	Riverine, Urban	Maypearl
03100058	City of Dayton DMP	Evaluate City and identify future projects.	2B, 2C	Liberty				Watershed Planning - Drainage Master Plan	21.0	Riverine, Urban	Dayton
03100059	City of Denton DMP	Evaluate City and identify future projects.	2B, 2C	Denton				Watershed Planning - Drainage Master Plan	97.0		City of Denton
03100060	City of Madisonville DMP	Evaluate City and identify future projects.	2B, 2C	Madison				Watershed Planning - Drainage Master Plan	4.9	Riverine, Urban	Madisonville
03100061	City of Rockwall DMP	Evaluate City and identify future projects.	2B, 2C	Rockwall				Watershed Planning - Drainage Master Plan	29.9	Riverine, Urban	Rockwall
03100062	City of Everman DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	1.7	Riverine, Urban	Everman
03100063	City of Colleyville DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	13.2	Riverine, Urban	Colleyville
03100064	Haltom City DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	12.4	Riverine, Urban	Haltom City
03100065	City of Southlake DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	22.3	Riverine, Urban	Southlake



03100066	City of North Richland Hills DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	18.2	Riverine, Urban	North Richland Hills
03100067	City of Mansfield DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	36.5	Riverine, Urban	Mansfield
03100068	City of Trinidad DMP	Evaluate City and identify future projects.	2B, 2C	Henderson				Watershed Planning - Drainage Master Plan	14.8	Riverine, Urban	Trinidad
03100069	Cedar Hill-DeSoto-Duncanville DMP	Evaluate City and identify future projects.	2B, 2C	Dallas				Watershed Planning - Drainage Master Plan	68.4	Riverine, Urban	Cedar Hil, DeSoto, Duncanville
03100070	City of Athens DMP	Evaluate City and identify future projects.	2B, 2C	Henderson				Watershed Planning - Drainage Master Plan	13.5	Urban Flooding/Riverine	City of Athens
03100071	Sansom Park DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	1.2		Sansom Park
03100072	City of Decatur DMP	Evaluate City and identify future projects.	2B, 2C	Wise				Watershed Planning - Drainage Master Plan	8.8	Riverine	City of Decatur
03100073	City of Waxahachie DMP (Phase 2 Continuation)	Evaluate City and identify future projects. Continue efforts of current DMP Phase 2 efforts.	2B, 2C	Ellis				Watershed Planning - Drainage Master Plan	49.2	Riverine	City of Waxahachie
03100074	City of Crockett DMP	Evaluate City and identify future projects.	2B, 2C	Houston				Watershed Planning - Drainage Master Plan	9.2	Urban Flooding/Riverine	City of Crockett
03100075	Town of Dish DMP	Evaluate City and identify future projects.	2B, 2C	Denton				Watershed Planning - Drainage Master Plan	1.5	Riverine	Town of Dish
03100076	City of Corinth DMP	Evaluate City and identify future projects.	2B, 2C	Denton				Watershed Planning - Drainage Master Plan	7.8	Riverine	City of Corinth
03100077	City of Keller DMP	Evaluate City and identify future projects.	2B, 2C	Tarrant				Watershed Planning - Drainage Master Plan	18.4	Urban Flooding	City of Keller
03100078	Anderson County DMP	Evaluate County and identify future projects.	2B, 2C	Anderson				Watershed Planning - Drainage Master Plan	1073.7	Riverine, Urban	Anderson County
03100079	Cooke County DMP	Evaluate County to identify future projects.	2B, 2C	Cooke				Watershed Planning - Drainage Master Plan	893.2	Riverine, Urban	Cooke County
03100080	Fannin County DMP	Evaluate County and identify future projects.	2B, 2C	Fannin				Watershed Planning - Drainage Master Plan	897.0	Riverine, Urban	Fannin County
03100081	Freestone County DMP	Evaluate County and identify future projects.	2B, 2C	Freestone				Watershed Planning - Drainage Master Plan	888.4	Riverine, Urban	Freestone County, Fairfield, Streetman, Teague, Wortham
03100082	Houston County DMP	Evaluate County and Identify future projects.	2B, 2C	Houston				Watershed Planning - Drainage Master Plan	1232.1	Riverine, Urban	Houston County
03100083	Jack County DMP	Evaluate County and identify future projects.	2B, 2C	Jack				Watershed Planning - Drainage Master Plan	917.6	Riverine, Urban	Jack County
03100084	Johnson County DMP	Evaluate County and identify future projects.	2B, 2C	Johnson				Watershed Planning - Drainage Master Plan	731.0	Riverine, Urban	Johnson County
03100085	Leon County DMP	Evaluate County and identify future projects.	2B, 2C	Leon				Watershed Planning - Drainage Master Plan	1076.1	Riverine, Urban	Leon County
03100086	Liberty County DMP	Evaluate County and identify future projects.	2B, 2C	Liberty				Watershed Planning - Drainage Master Plan	1169.8	Riverine, Urban	Liberty County
03100087	Montague County DMP	Evaluate County and identify future projects.	2B, 2C	Montague				Watershed Planning - Drainage Master Plan	933.4	Riverine, Urban	Montague County
03100088	Parker County DMP	Evaluate County and identify future projects.	2B, 2C	Parker				Watershed Planning - Drainage Master Plan	903.0	Riverine, Urban	Parker County, Willow Park
03100089	Polk County DMP	Evaluate County and identify future projects.	2B, 2C	Polk				Watershed Planning - Drainage Master Plan	1105.9	Riverine, Urban	Polk County, Livingston, Goodrich, Onalaska, Seven Oaks, Corrigan
03100090	San Jacinto DMP	Evaluate County and Identify future projects.	2B, 2C	San Jacinto				Watershed Planning - Drainage Master Plan	625.7	Riverine, Urban	San Jacinto County, Coldspring, Point Blank, Shepherd
03100091	Trinity County DMP	Evaluate County and identify future projects.	2B, 2C	Trinity				Watershed Planning - Drainage Master Plan	710.0	Riverine, Urban	Trinity
03100092	Van Zandt County DMP	Evaluate County and identify future projects.	2B, 2C	Van Zandt				Watershed Planning - Drainage Master Plan	856.4	Riverine, Urban	Van Zandt County
03100093	Wise County DMP	Evaluate County and identify future projects.	2B, 2C	Wise				Watershed Planning - Drainage Master Plan	919.8	Riverine, Urban	Wise County
03100094	Dallas County DMP and Vulnerability Assessment	Evaluate County to identify future projects. Risk and vulnerability assessment to determine the number of people, property and infrastructure exposed to flooding.	2B, 2C	Dallas				Watershed Planning - Drainage Master Plan	905.2	Riverine, Urban	Dallas County
03100095	Merritt Road, Sachse Road, and Willow Lake Improvements	Hydrologic and Hydraulic Study of Stream 2E3, 2E4 and Willow Lake to determine causes of flooding along Merrit Rd and identify necessary drainage improvements.	2A, 2B	Collin , Dallas				Watershed Planning - H&H Modeling	42.0		City of Sachse
03100096	Richardson West Fork Cottonwood Creek Watershed Study	Richardson West Fork Cottonwood Creek Watershed Study	2A	Dallas , Collin				Watershed Planning - H&H Modeling	32.9		Richardson
03100097	Copper Canyon Poindexter Branch Flood Mitigation Plan	Copper Canyon Poindexter Branch Flood Mitigation Plan	2A, 2B	Denton				Watershed Planning - H&H Modeling	6.5		Copper Canyon
03100098	Holiday Park North Drainage Study Update	Area 2	2A	Dallas				Watershed Planning - H&H Modeling	13.8		City of Garland
03100099	Buhler, Cresthaven, Madewell & Maryland Drainage Study Update	Area 4	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland
03100100	Bellaire Heights Drainage Study Update	Area 5	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland
03100101	Country Club Add., Club Hill Est., & Eastern Hills Est. Drainage Study Update	Area 6	2A	Dallas				Watershed Planning - H&H Modeling	6.0		City of Garland
03100102	Shorehaven-Garvon-Rosewood Terrace-Garland Heights-Freeman Heights-Range-Cooper-Barger Drainage Study Update	Area 7	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland

031000103	Brentwood Place-Two Worlds-Apollo_East Park Village Drainage Study Update	Area 8	2A	Dallas				Watershed Planning - H&H Modeling	13.8		City of Garland
031000104	Ridgewood Park-Regal Estates-Meadowcreek Square Drainage Study Update	Area 9	2A	Dallas				Watershed Planning - H&H Modeling	6.5		City of Garland
031000105	Eastern Meadows-Southlake Estates-Greenbrook-Green Acres-Rosehill Acreage Drainage Study Update	Area 10	2A	Dallas				Watershed Planning - H&H Modeling	12.7		City of Garland
031000106	La Prada 7 & 8 Drainage Study Update	Area 11	2A	Dallas				Watershed Planning - H&H Modeling	6.5		City of Garland
031000107	Gateway Drainage Study Update	Area 12	2A	Dallas				Watershed Planning - H&H Modeling	6.5		City of Garland
031000108	Curtis Drive Drainage Study Update	Area 13	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland
031000109	Center Creek Plaza 8 Southgate Estates Drainage Study Update	Area 14	2A	Dallas				Watershed Planning - H&H Modeling	6.5		City of Garland
031000110	Bluffview Drainage Study Update	Area 15	2A	Dallas				Watershed Planning - H&H Modeling	6.0		City of Garland
031000111	Camelot Drainage Study Update	Area 16	2A	Dallas				Watershed Planning - H&H Modeling	13.8		City of Garland
031000112	Downtown Drainage Study Update	Area 17	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland
031000113	Main & Wilson Streets Drainage Study Update	Area 18	2A	Dallas				Watershed Planning - H&H Modeling	13.5		City of Garland
031000114	Royal Crest-Meadowview Drainage Study Update	Area 19	2A	Dallas				Watershed Planning - H&H Modeling	6.0		City of Garland
031000115	Garvon West, Innovation & Kingsley Ind. Park Drainage Study Update	Area 20	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland
031000116	Northlake & Castlewood Drainage Study Update	Area 21	2A	Dallas				Watershed Planning - H&H Modeling	4.5		City of Garland
031000117	Legend Drive Drainage Study Update	Area 22	2A	Dallas				Watershed Planning - H&H Modeling	4.7		City of Garland
031000118	Brazos Drive Drainage Study Update	Area 23	2A	Dallas				Watershed Planning - H&H Modeling	6.5		City of Garland
031000119	Sweetbriar-Glenrose Alley Drainage Study Update	Area 26	2A	Dallas				Watershed Planning - H&H Modeling	8.8		City of Garland
031000120	Mc Adams Ditch Widening Project	Widen Mc Adams Ditch that crosses FM 3180 South	5B	Chambers				Engineering Project Planning	2.2		Chambers County
031000121	Rhonda Rosa Lane Bridge	Construct bridge on Rhonda Rosa Lane in Ranches on Turtle Bayou to replace box culverts.	1B, 5B	Chambers				Engineering Project Planning	0.0		Chambers County
031000122	Hackberry Gully and Cotton Bayou Shelving Project	Shelving the entire length of Hackberry Gully and Cotton Bayou from South of I-10 to Cotton Lake; thereby increasing their flow capacity.	5B	Chambers				Engineering Project Planning	24.6		Chambers County
031000123	Collin County Retention Structures Rehabilitation Project	Implement results of hazard/vulnerability assessment and inundation study on NRCS flood retention structures and rehabilitate structures found to be a high hazard.	2C, 3B	Collin				Engineering Project Planning	883.4	Riverine	Collin County
031000124	McMillen Rd Bridge Lift Project (Maxwell Creek)	Flood study to determine parameters to raise bridge at McMillen Rd to reduce flooding .	1B	Collin				Engineering Project Planning	10.3		Wylie
031000125	Cooke County Low-Water Crossing Barriers Project	Installation of automatic flood crossing barriers at low water crossing to prevent automobiles from driving through high water.	1B	Cooke				Engineering Project Planning	893.2		Cooke County
031000126	Wheeler Creek Channelization Project	Channelization of Wheeler Creek to reduce flooding in the west side of town.	5B	Cooke				Engineering Project Planning	39.5		Gainesville
031000127	Pecan Creek Channelization Project	Channelization project for Pecan Creek to reduce flooding.	5B	Cooke				Engineering Project Planning	12.5		Valley View
031000128	Lindsay Waterways Improvements	Reshape waterways to allow quicker flow in areas that have regular flooding. Construction of Gabion retaining walls, and widening and/or deepening of the waterway.	5B	Cooke				Engineering Project Planning	2.2		Lindsay
031000129	O'Neal St Low-Water Crossing Automatic Barrier Installation	Installation of an automatic barricade for low-water crossing on O'Neal St.	1B	Cooke				Engineering Project Planning	10.3		Gainesville
031000130	Elm Fork Bridge Improvements	Alleviate flooding issues with the Elm Fork bridge on I-35.	1B, 5B	Cooke				Engineering Project Planning	7.2	Riverine, Urban	Gainesville
031000131	Brockbank and Embassy Channel Basin Improvements	Channel improvement on Brockbank Channel Basin north of SH 183; Channel improvement on Embassy Channel Basin north of SH 183	5B	Dallas				Engineering Project Planning	9.2		Irving
031000132	University Park Storm Water Infrastructure Improvements	Construction of new storm sewer inlets, mains, and underground detention system to reduce flooding in Northeast portion of the City	5B	Dallas				Engineering Project Planning	3.7	Riverine, Urban	University Park
031000133	Exall and Wycliffe Dam Maintenance Protocol for Drainage Systems and Flood Control Structures	Develop and implement a maintenance protocol for Drainage Systems and Flood Control Structures in and around the Exall and Wycliffe Dams. Roadway reconstruction, culvert / bridge construction and associated bank protection and improvements.	5B	Dallas				Engineering Project Planning	2.2		Highland Park
031000134	Farmers Branch Retention Pond Dredging	Dredge the retention ponds along the creeks within the City.	3B, 5B	Dallas				Engineering Project Planning	12.0	Riverine, Urban	Farmers Branch
031000135	Ten Mile Creek Channel Expansion	Improve and increase the capacity of storm water system by expanding the Ten Mile Creek downstream channel to prevent flooding in flood prone areas to include structural stormwater management projects	5B	Dallas				Engineering Project Planning	77.0		Lancaster
031000136	Hunterwood Stream Stabilization Project	Installation and maintenance of gabion walls to mitigate stream bank erosion during extreme flood events	5B	Dallas				Engineering Project Planning	9.5		Coppell
031000137	Carrollton Flood Warning Barrier System	Procure and install flood warning barrier system to prevent motorists from driving into flooded areas.	1B	Dallas				Engineering Project Planning	37.3		Carrollton
031000138	Westside Drive Drainage System and Street Reconstruct Project	Reconstruct Drainage System and Street in the 4500-4700 blocks of Westside Drive	5B	Dallas				Engineering Project Planning	2.1		Highland Park
031000139	Garner Rd, Chiesa Rd, and Wayne Way Storm Drain System Improvements	Storm drain system redirection and improvements at Garner Rd, Chiesa Rd, and Wayne Way	5B	Dallas				Engineering Project Planning	10.0		Rowlett
031000140	Cooks Creek Drainage Infrastructure Improvements	Improve the drainage infrastructure along Cooks Creek between Bee St and Spring Valley.	5B	Dallas				Engineering Project Planning	6.3		Farmers Branch
031000141	Carrollton Drainage Upgrades	Upgrade drainage and targeted regrading of streets and properties. Add additional drains and supporting infrastructure in older neighborhoods to increase offloading of flash flood waters.	5B	Dallas				Engineering Project Planning	37.3		Carrollton
031000142	Little Elm Drainage Improvements	Drainage improvements to mitigate future flash and lake flooding problems.	5B	Denton				Engineering Project Planning	22.3		Little Elm
031000143	Shady Shores Rd Elevation Project	Elevate Shady Shores Rd to reduce future loss due to flooding	1B, 5B	Denton				Engineering Project Planning	16.7		Shady Shores
031000144	Sanger Creek Waterways Reconstruction	Reconstruct creek waterways to correct drainage issues	5B	Denton				Engineering Project Planning	11.7		Sanger

031000145	CR 1400 drainage study	Evaluate widening road and installing box drains where necessary.	1B, 5B	Henderson			Engineering Project Planning	2.5		Malakoff
031000146	Malone Bridge Improvements	Elevate roadways in flood-prone areas through bridge improvements	1B	Hill			Engineering Project Planning	0.4		Malone
031000147	FM 2114 Automated Flood Gate Installation	Install an automated flood gate that prevents traffic flow on FM 2114 within the flood-prone area during flooding events.	1B	Hill			Engineering Project Planning	8.8		Penelope
031000148	Houston County dike for critical facilities	Build earthen dike to elevate emergency vehicle access road to critical facilities to provide protection to 500-year flood level	1B, 3A, 3B	Houston			Engineering Project Planning	1232.1	Riverine, Urban	Houston County
031000149	Grapeland Critical Facilities Floodproofing Assessment	Flood proof critical facilities to the 500-year flood that are located in flood-prone areas of the city	3A, 3B	Houston			Engineering Project Planning	0.5	Riverine, Urban	Grapeland
031000150	Jack County WWTP and Lift Station Flood-Proofing.	Flood-proof sewage treatment plans in flood hazard / low-lying areas. Raise electrical components of sewage lift stations above the BFE.	3B	Jack			Engineering Project Planning	917.6	Riverine, Urban	Jack County
031000151	County Rd 125 Automatic Warning Barricade Installation	Install automatic warning barricades at County Rd 125 low-water crossing	1B	Kaufman			Engineering Project Planning	23.1		Kaufman County
031000152	City of Liberty WWTP Levee	Construct levee floodwall around waste water treatment plant	3B	Liberty			Engineering Project Planning	42.3	Riverine, Urban	City of Liberty
031000153	Liberty County Re-canalization	Dechannelize existing feeder creeks that flow from north to south and improve drainage for storm water runoff	5B	Liberty			Engineering Project Planning	1169.8		Liberty County
031000154	Liberty County Culverts Upgrades	Reduce flooding by increasing size of culverts to 24 inches on County Rd 2361, 2362, 2363, and 2364 and CR 2358	1B, 5B	Liberty			Engineering Project Planning	3.6		Liberty County
031000155	County Rd 2331 Re-Routing	Re-route County Rd 2331 to area not prone to flooding	3B	Liberty			Engineering Project Planning	6.4		Dayton Lake Estates
031000156	"Aqueduct" Drainage System Replacement	Replace current drainage system known as the "Aqueduct" in the city. Includes creating underground drainage along North Main St	5B	Parker			Engineering Project Planning	3.1		Hudson Oaks
031000157	Polk County Road and Drainage Improvements	Conduct road elevation and drainage improvements.	1B, 5B	Polk			Engineering Project Planning	1105.9		Polk County
031000158	Seven Oaks Drainage Ditches	Evaluate drainage ditch along city streets Camp Rd, Pickens Loop, Franklin Rd, Austin Street, and Hunt Street	5B	Polk			Engineering Project Planning	7.9		Seven Oaks
031000159	Old 35 Sover Sampson Creek Bridge Elevation	Elevate bridge on Old 35 Sover Sampson Creek	1B	Polk			Engineering Project Planning	4.9		Goodrich
031000160	Pennington Rd Culverts	Install multiple culverts under Pennington Rd	1B, 5B	Polk			Engineering Project Planning	4.9		Goodrich
031000161	Seven Oaks Culvert Installation	Install multiple new culverts under Camp Rd, Pickens Loop, and Franklin Rd	1B, 5B	Polk			Engineering Project Planning	7.9		Seven Oaks
031000162	San Jacinto County Drainage and Conveyance Capacity Improvements	Improve drainage and conveyance capacity for Big Creek.	5B	San Jacinto			Engineering Project Planning	625.7		Shepherd, San Jacinto County
031000163	Rock Creek Road Improvements	Mitigate repetitive damages to Rocky Creek Rd sustained between 2015 - Present	1B, 5B	San Jacinto			Engineering Project Planning	4.0	Riverine, Urban	San Jacinto County, Shepherd
031000164	Chipmunk Rd Culverts Replacement	Replace Chipmunk Rd culverts with a bridge	1B, 5B	San Jacinto			Engineering Project Planning	3.7		San Jacinto County, Shepherd
031000165	Comanche Drive Culvert and Retention Wall Construction Project	Build a larger culvert and retention wall for watershed over low crossing on Comanche Drive	1B	Tarrant			Engineering Project Planning	9.9		Lake Worth
031000166	Aton Storm Drain System Updates	Improve drainage capabilities on the Aton Storm drain system.	5B	Tarrant			Engineering Project Planning	4.8	Urban	Westworth Village
031000167	Lower Hardisty Stormdrain Improvements	Conduct Lower Hardisty drain improvements	5B	Tarrant			Engineering Project Planning	14.8		Richland Hills
031000168	Big Bear Creek, Little Bear Creek, and Marshall Branch Stream Bank Erosion Study	Study to reduce stream bank erosion impacts along Big Bear Creek, Little Bear Creek, and Marshall Branch to improve drainage within the City of Keller	5B	Tarrant			Engineering Project Planning	734.9		Keller
031000169	Calloway Branch Erosion Control Installation	Install erosion control in Calloway Branch to eliminate erosion of stream bank	5B	Tarrant			Engineering Project Planning	27.5		Hurst
031000170	Mansfield Stream Stabilization	Design and construct projects to protect public infrastructure and private property from damages due to streambank erosion. Projects could include Saddlehorn/Walnut Creek sewer interceptor aerial crossing and Brookfield Hogpen sewer interceptor	5B	Tarrant			Engineering Project Planning	36.5		Mansfield
031000171	Turkey Creek Trail Bridge	Construct Bridge at Low-Water Crossing on Turkey Creek Trail.	1B	Wise			Engineering Project Planning	4.9		Bridgeport
031000172	Turkey Creek Trail Rebuild	Rebuild Turkey Creek Trail from 9th Street to State Highway 114.	5B	Wise			Engineering Project Planning	4.9		Bridgeport
031000173	West Bridgeport Creek Channelization and Drainage Project	West Bridgeport Creek Channelization and Drainage Project.	5B	Wise			Engineering Project Planning	27.8		Bridgeport
031000174	North Weatherford St and Oakwood St Structure Improvements	Structure improvements -North Weatherford St in front of fire station and Oakwood St between Granada and El Camino.	5B	Wise			Engineering Project Planning	5.8		Chico
031000175	Hurstview Drive Bridge Improvement - found road but not bridge?	Lorean watershed; \$390,000 cost estimate; from 2013 study	1B, 5B	Tarrant			Engineering Project Planning	4.3		City of Hurst
031000176	Regional Detention at Mayfair Park	Valley View watershed; \$1,900,000 cost estimate; from 2017 study	3B, 5B	Tarrant			Engineering Project Planning	3.3		City of Hurst
031000177	TRE & SH-10 Culvert Improvements	Valley View watershed; \$750,000 cost estimate; from 2017 study	1B, 2C, 5B	Tarrant			Engineering Project Planning	27.5		City of Hurst
031000178	Pipeline Road Bridge Improvement	Walker watershed; \$1,700,000 cost estimate; from 2020 study	5B	Tarrant			Engineering Project Planning	27.5		City of Hurst
031000179	Redbud Drive Bridge Improvement	Walker watershed; \$1,200,000 cost estimate; from 2020 study	5B	Tarrant			Engineering Project Planning	4.3		City of Hurst
031000180	Northeast Mall Culvert Improvement	Walker watershed; \$11,600,000 cost estimate; from 2020 study	5B	Tarrant			Engineering Project Planning	5.2		City of Hurst
031000181	Grand Parkway Culvert Crossing	Upsize cross-culverts to allow for developed flow	1B, 2C, 5B	Chambers			Engineering Project Planning	8.6		City of Mont Belvieu
031000182	Cherry Point Gully	Construction of a diversion channel; channel improvements upstream of diversion; construction of regional detention basins as alternative to diversion channel construction	5B	Chambers			Engineering Project Planning	5.6		City of Mont Belvieu
031000183	Cotton Bayou	Construction of diversion channel within irrigation canal ROW to drain to Old River; construction of detention basins as needed to serve new development; linear detention through channel improvements; expansion of existing detention basins	5B	Chambers			Engineering Project Planning	24.6		City of Mont Belvieu
031000184	Belt Line Rd (FM1382) at Cottonwood Creek	Channel Improvements; \$4,502,500	5B	Dallas			Engineering Project Planning	12.5		City of Grand Prairie
031000185	North Grand Prairie High School Pond Crossing	Gopher Creek 430 feet north of Small Hill St; channel improvements; \$159,500	5B	Dallas			Engineering Project Planning	3.8		City of Grand Prairie
031000186	Belt Line Rd at Plattner Creek	Channel Improvements; \$435,500	5B	Dallas			Engineering Project Planning	2.6		City of Grand Prairie
031000187	Small Hill St at Gopher Creek	Channel Improvements; \$307,700	5B	Dallas			Engineering Project Planning	3.8		City of Grand Prairie
031000188	Carrier Parkway at Dalworth Creek	190 feet southeast of Capetown; Channel Improvements; \$1,092,000	5B	Dallas			Engineering Project Planning	2.2		City of Grand Prairie
031000189	East Tarrant Rd at Gopher Creek	Channel Improvements; \$381,300	5B	Dallas			Engineering Project Planning	3.8		City of Grand Prairie

031000190	NE 5th St at Gopher Creek	Channel Improvements; \$390,200	5B	Dallas				Engineering Project Planning	3.8		City of Grand Prairie
031000191	Grass-covered Culvert at Dalworth Creek -cant find	520 feet west of Carrier Parkway; Channel Improvements; \$1,048,700	5B	Dallas				Engineering Project Planning	2.2		City of Grand Prairie
031000192	High School Drive at Gopher Creek	Channel Improvements; \$402,400	5B	Dallas				Engineering Project Planning	3.8		City of Grand Prairie
031000193	Duncan Perry Rd at Johnson Creek	Channel Improvements; \$5,374,200	5B	Dallas				Engineering Project Planning	21.0		City of Grand Prairie
031000194	Great Southwest Parkway at Cottonwood Creek Bridge and Roadway Raising Improvements (Stream Station 104+64)	Channel Improvements; \$9,538,300	5B	Dallas				Engineering Project Planning	5.6		City of Grand Prairie
031000195	West Park Square Rd at Turner Branch	Channel Improvements; \$445,200	5B	Dallas				Engineering Project Planning	3.8		City of Grand Prairie
031000196	Carrier Parkway at Cottonwood Creek and South Fork Cottonwood Creek - Bridges	Channel Improvements; \$18,164,400	5B	Dallas				Engineering Project Planning	5.6		City of Grand Prairie
031000197	3rd St at Cottonwood Creek and Cottonwood Creek from SW 3rd to FM 1382	Channel Improvements; \$12,733,000	5B	Dallas				Engineering Project Planning	12.5		City of Grand Prairie
031000198	FM 661 at Mountain Creek (Future with Development)	Channel Improvements; \$7,750,000	5B	Dallas				Engineering Project Planning	49.6		City of Grand Prairie
031000199	Green Hollow Drive North and South of Thornbush Drive	Storm Drain Improvements; \$247,000	5B	Dallas				Engineering Project Planning	1.6		City of Grand Prairie
031000200	Carrier Parkway & Egyptian Way	Storm Drain Improvements; \$3,165,300	5B	Dallas				Engineering Project Planning	21.0		City of Grand Prairie
031000201	East Pioneer Parkway & SE 14th St	Storm Drain Improvements; \$3,742,700	5B	Dallas				Engineering Project Planning	5.2		City of Grand Prairie
031000202	Great Southwest Parkway & Pinewood Drive	Storm Drain Improvements; \$3,998,200	5B	Dallas				Engineering Project Planning	4.6		City of Grand Prairie
031000203	Lake Park Drive and Victoria Drive	Storm Drain Improvements; \$1,094,100	5B	Dallas				Engineering Project Planning	2.6		City of Grand Prairie
031000204	Regional Detention at Bowie Elementary School - find coordinates	Storm Drain Improvements; \$3,433,500	5B	Dallas				Engineering Project Planning	2.3		City of Grand Prairie
031000205	Shady Grove Rd - Jones St Storm Drainage Improvements	Storm Drain Improvements; \$1,679,200	5B	Dallas				Engineering Project Planning	1.8		City of Grand Prairie
031000206	Duncan Perry Rd, Heritage Court and Goodwin Branch - ?	Storm Drain Improvements; \$1,175,300	5B	Dallas				Engineering Project Planning	1.8		City of Grand Prairie
031000207	Thousand Oaks Court	Storm Drain Improvements; \$742,700	5B	Dallas				Engineering Project Planning	3.2		City of Grand Prairie
031000208	East Marshall Drive, Santa Cruz Circle & Belt Line Rd	Storm Drain Improvements; \$1,753,800	5B	Dallas				Engineering Project Planning	2.6		City of Grand Prairie
031000209	East Main St & NE 14th St	Storm Drain Improvements; \$5,879,400	5B	Dallas				Engineering Project Planning	3.8		City of Grand Prairie
031000210	Marshall Drive from Emerald to SW 3rd	Storm Drain Improvements; \$3,603,100	5B	Dallas				Engineering Project Planning	2.3		City of Grand Prairie
031000211	Varsity Drive and Christy St from Varsity to Mountain Creek Lake	Storm Drain Improvements; \$4,768,500	5B	Dallas				Engineering Project Planning	7.8		City of Grand Prairie
031000212	SE 10th Street and Avion Parkway from Perman South to Culvert Crossing	Storm Drain Improvements; \$1,158,400	5B	Dallas				Engineering Project Planning	2.3		City of Grand Prairie
031000213	SW 3rd Street from Dorris North to Concrete Channel	Storm Drain Improvements; \$4,024,800	5B	Dallas				Engineering Project Planning	2.6		City of Grand Prairie
031000214	Bowles St & Hensley Drive	Storm Drain Improvements; \$1,295,700	5B	Dallas				Engineering Project Planning	2.8		City of Grand Prairie
031000215	Manana Channel Improvements	Storm Drain Improvements; \$967,600	5B	Dallas				Engineering Project Planning	3.2		City of Grand Prairie
031000216	South of Bardin Rd and North of Newberry St	Storm Drain Improvements; \$2,007,600	5B	Dallas				Engineering Project Planning	4.8		City of Grand Prairie
031000217	Cherokee Trace and Choctaw Trace to Clarice	Storm Drain Improvements; \$2,715,600	5B	Dallas				Engineering Project Planning	2.3		City of Grand Prairie
031000218	Gilbert Rd Drainage Improvements	Storm Drain Improvements; \$5,825,500	5B	Dallas				Engineering Project Planning	3.2		City of Grand Prairie
031000219	27th Street and Graham Street from Rinehart to Channel	Storm Drain Improvements; \$1,419,800	5B	Dallas				Engineering Project Planning	1.6		City of Grand Prairie
031000220	East Marshall Drive & Avenue C, East Coral & SE 14th Street and in SE 14th Street & Bogarte Drive	Storm Drain Improvements; \$6,399,100	5B	Dallas				Engineering Project Planning	5.2		City of Grand Prairie
031000221	Lakeview Drive & SE 14th Street	Storm Drain Improvements; \$3,570,700	5B	Dallas				Engineering Project Planning	5.2		City of Grand Prairie
031000222	WE Roberts St & SW 16th St	Storm Drain Improvements; \$1,625,900	5B	Dallas				Engineering Project Planning	5.6		City of Grand Prairie
031000223	Jelmak Rd - Hardrock Rd	Storm Drain Improvements; \$5,095,800	5B	Dallas				Engineering Project Planning	3.1		City of Grand Prairie
031000224	Shady Grove Rd, Gilbert Rd, Wright Blvd	Storm Drain Improvements; \$2,860,900	5B	Dallas				Engineering Project Planning	6.3		City of Grand Prairie
031000225	Parker Rd - Hardrock Rd	Storm Drain Improvements; \$5,760,800	5B	Dallas				Engineering Project Planning	5.2		City of Grand Prairie
031000226	North Carrier Parkway & Main St to Dalworth Creek Channel	Storm Drain Improvements; \$8,803,700	5B	Dallas				Engineering Project Planning	2.2		City of Grand Prairie
031000227	Pioneer Parkway from Brady to Plattner Creek (TXDOT)	Storm Drain Improvements; \$9,511,900	5B	Dallas				Engineering Project Planning	2.6		City of Grand Prairie
031000228	NW 24th St & NW 23rd St from West Main to Ditch Near Dalworth St and Doreen St	Storm Drain Improvements; \$5,982,600	5B	Dallas				Engineering Project Planning	2.2		City of Grand Prairie
031000229	Detention Basin at St. Michael's Church Vacant Property and Relief Storm Drains in Corn Valley Rd and Neighboring Streets from Santa Anna to Kirby Creek Channel	Storm Drain Improvements; \$18,766,400	5B	Dallas				Engineering Project Planning	11.7		City of Grand Prairie
031000230	River Ridge Boulevard	Storm Drain Improvements; \$6,148,800	5B	Dallas				Engineering Project Planning	7.9		City of Grand Prairie
031000231	East Grand Prairie Rd & 14th Street from Austin to Ditch South of Skyline	Storm Drain Improvements; \$8,549,300	5B	Dallas				Engineering Project Planning	1.8		City of Grand Prairie
031000232	Shady Grove Rd	Storm Drain Improvements; \$6,737,200	5B	Dallas				Engineering Project Planning	2.8		City of Grand Prairie
031000233	Various Streets and Alleys from Dallas Street West of NW 20th Street to Ditch Just South of WE Roberts Street	Storm Drain Improvements; \$10,656,800	5B	Dallas				Engineering Project Planning	5.6		City of Grand Prairie
031000234	South Great Southwest Parkway from Warrior to Kirby Creek Concrete Channel North of Mayfield	Storm Drain Improvements; \$1,411,100	5B	Dallas				Engineering Project Planning	2.8		City of Grand Prairie
031000235	South Great Southwest Parkway from North of Forum Drive to Prairie Creek Channel	Storm Drain Improvements; \$2,127,800	5B	Dallas				Engineering Project Planning	5.8		City of Grand Prairie
031000236	South Great Southwest Parkway from Sherman to Cottonwood Creek	Storm Drain Improvements; \$6,881,500	5B	Dallas				Engineering Project Planning	5.6		City of Grand Prairie
031000237	Arbor Creek Pedestrian Bridge Repair and Channel Bottom Stabilization	270 feet south of Johnson Creek and 290 feet east of SH 161; \$270,900	5B	Dallas				Engineering Project Planning	21.1		City of Grand Prairie
031000238	Gopher Creek Stream Bottom Stabilization - creek?	downstream of NE 5th Street; between High School Drive and NE 5th Street; downstream of Belt Line Road; \$65,600 (?) + \$127,300; downstream of High School Drive; \$70,500	5B	Dallas				Engineering Project Planning	3.2		City of Grand Prairie
031000239	Turner Branch Stream Bottom Stabilization - creek?	380 feet south of Small Hill Street to 450 feet north of East Tarrant Road; \$187,200 (?)	5B	Dallas				Engineering Project Planning	3.8		City of Grand Prairie
031000240	Arbor Creek Channel Bottom Stabilization - creek?	Channelization, Stabilization, and Bank Armoring from SH 161 East to Johnson Creek Confluence; \$2,096,900; from Duncan Perry to SH 161; \$991,600	5B	Dallas				Engineering Project Planning	2.6		City of Grand Prairie
031000241	North Fork of Cottonwood Creek Stabilization	from Great Southwest to Carrier; \$214,900	5B	Dallas				Engineering Project Planning	1.3		City of Grand Prairie
031000242	Kirby Creek Channel Lining Replacements	from 800 feet east of Great Southwest to West of Waterwood; just north of Kildeer cul-de-sac and from Waterwood East to End of Channel Lining just east of Greenvista; \$1,267,200	5B	Dallas				Engineering Project Planning	2.8		City of Grand Prairie
031000243	Dry Branch Stream Bottom Stabilization	300 feet south of Rock Island (2 locations); \$91,300	5B	Dallas				Engineering Project Planning	0.7		City of Grand Prairie

031000244	Johnson Creek Avenue J Stabilization	Bridge abutment repair and channel bank stabilization; \$168,500	5B	Dallas			Engineering Project Planning	21.0		City of Grand Prairie
031000245	Garden Branch Stabilization - creek?	Channel bottom stabilization from Camp Wisdom to Great Southwest; \$176,100	5B	Dallas			Engineering Project Planning	0.7		City of Grand Prairie
031000246	Warrior Creek Stabilization	From Great Southwest to South Fork Cottonwood Creek; \$518,500	5B	Dallas			Engineering Project Planning	10.2		City of Grand Prairie
031000247	Dalworth Creek Stabilization	Repair of gabions and protection of wastewater crossing downstream of I-30; \$402,000; from Dalworth Street to Roman; \$278,900	5B	Dallas			Engineering Project Planning	2.2		City of Grand Prairie
031000248	South Fork Cottonwood Creek	from Great Southwest to Carrier; \$781,200	5B	Dallas			Engineering Project Planning	4.6		City of Grand Prairie
031000249	Willis Branch Stabilization	Dam removal and south channel bank stabilization just west of Devon cul-de-sac; \$48,600; from Great Southwest to Sheffield; \$200,700	5B	Dallas			Engineering Project Planning	7.3		City of Grand Prairie
031000250	Johnson Creek Stabilization	Replacement of failed inline channel structure 500 feet east of SH 161 and channel sediment removal; \$1,979,000; south channel bank stabilization north of Babbling Brook from Quest to Shadow Pass; \$831,700; north channel bank stabilization north of North Great Southwest Dead-end near Hidden Brook Drive; \$213,800; north bank stabilization 250 feet east of SH-360 crossing; \$454,800	5B	Dallas			Engineering Project Planning	21.0		City of Grand Prairie
031000251	Henry Branch Stream Stabilization	from apartments at 1000 South Belt Line to Grand Prairie Road; \$127,900	5B	Dallas			Engineering Project Planning	2.3		City of Grand Prairie
031000252	Plattner Creek Stabilization	from FM 1382 to City Limits of Dallas, west of SE 14th; \$252,900	5B	Dallas			Engineering Project Planning	2.6		City of Grand Prairie
031000253	Prairie Creek Stabilization	from upstream of Great Southwest Pkwy to upstream of Robinson Road; \$606,900	5B	Dallas			Engineering Project Planning	5.8		City of Grand Prairie
031000254	Stuart Branch Stabilization	from 460 feet north of Sanctuary Drive and 350 feet northeast of Nature Court cul-de-sac to Joe Pool Lake (future with development); \$349,700	5B	Dallas			Engineering Project Planning	6.2		City of Grand Prairie
031000255	Swadley Branch Stabilization	from 2200 feet south of Koscher Drive to Joe Pool Lake (future with development); \$286,800	5B	Dallas			Engineering Project Planning	3.6		City of Grand Prairie
031000256	Mills Branch Stabilization	from 880 feet south of South Periwinkle Court cul-de-sac to Joe Pool Lake (future with development); \$599,300	5B	Dallas			Engineering Project Planning	3.6		City of Grand Prairie
031000257	Tarrell Creek Stabilization	from a Stream Point 2420 feet south of South Periwinkle Court cul-de-sac and 800 feet east of South Periwinkle Court cul-de-sac to Joe Pool Lake (future with development); \$747,200	5B	Dallas			Engineering Project Planning	3.6		City of Grand Prairie
031000258	Jackson Meadows Pond Erosion Control	Erosion control measures around three pond headwalls to decrease flow velocity.	5B	Collin , Dallas			Engineering Project Planning	6.1		City of Sachse
031000259	Long Branch Channel Improvements (Dewitt to Ingram)	Channel improvements to replace a failed headwall and reduce erosive velocities. Sewer line relocation to protect against potential failure due to erosion.	5B	Collin , Dallas			Engineering Project Planning	6.1		City of Sachse
031000260	North Colony Blvd. at Powers Street	Streams SC-1A Drainage Study and storm drain upgrades to deal with flooding	2A, 2B, 2C	Denton			Engineering Project Planning	3.0		City of The Colony
031000261	Office Creek Drainage Study	updated Drainage Study and Improvements at Five Star Park	2A, 2B, 2C	Denton			Engineering Project Planning	2.5		City of The Colony
031000262	Bill Allen Park Erosion Repairs	Blair Oaks Drive to Good Shepherd Lutheran Church	5B	Denton			Engineering Project Planning	5.3		City of The Colony
031000263	Johnson County Low Water Crossings - East Side	Hydraulic evaluation to determine how to reduce flooding risk at multiple low water crossings.	1B, 2C	Johnson			Engineering Project Planning	731.0		Johnson County
031000264	Johnson County Low Water Crossings - West Side	Hydraulic evaluation to determine how to reduce flooding risk at multiple low water crossings.	1B, 2C	Johnson			Engineering Project Planning	731.0		Johnson County
031000265	Tributary SB-1: Circle Lane Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	4.5		City of Bedford
031000266	Tributary SB-1: Shirley Way Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	4.5		City of Bedford
031000267	Tributary SB-1: Briar Drive Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	4.5		City of Bedford
031000268	Tributary SB-1: Schumac Lane Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	10.6		City of Bedford
031000269	Tributary SB-1: Donna Lane Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	4.5		City of Bedford
031000270	Sulphur Branch: Circle Lane Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	4.5		City of Bedford
031000271	Sulphur Branch: Bedford Road Culvert Improvements	Evaluate and define necessary culvert improvements.	1B, 2C, 5B	Tarrant			Engineering Project Planning	2.2		City of Bedford
031000272	Fairfield South Bateman Drainage Study	Fairfield South Bateman Drainage Study	2A	Freestone			Engineering Project Planning	8.8		Fairfield
031000273	City of Plano - Citywide Drainage Improvements	Citywide drainage improvements for areas with history of flooding.	5B	Collin			Engineering Project Planning	71.9	Urban Flooding/Riverine	City of Plano
031000274	Collin County flooding hazard/vulnerability assessment	Develop and implement a hazard/vulnerability assessment for personal properties and structures located in the floodplain.	3B	Collin			Studies on Flood Preparedness	883.4	Riverine, Urban	Collin County
031000275	Houston County Lake Dam Emergency Action Plan	Develop Emergency Action Plan for Houston County Lake Dam	1	Houston			Studies on Flood Preparedness	1232.1	Riverine, Urban	Houston County
031000276	Grayson County Dams Compliance Assessment	Determine owners of all high and significant hazard dams and obtain copies of all EAPs. Obtain available dam failure impact data necessary for determining the most appropriate mitigation approach that would achieve compliance with the State's TCEQ regulations for all high and significant hazard dams.	1, 5B, 6C	Grayson			Studies on Flood Preparedness	976.7	Riverine, Urban	Grayson County
031000277	Denton County USDA Dam Studies and Rehabilitation	USDA Dam Studies and Rehabilitation	2C, 5B	Denton			Other - Dam Studies	948.7	Riverine, Urban	Denton County

Table 13: Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor
033000001	Town Creek Railroad Improvements	Due to the backwater caused by the undersized Railroad crossing, this alternative recommends improving the capacity of the crossing. The existing crossing contains two 12' x 10' RCB's. This alternative suggests an additional 12' x 10' RCB. The additional capacity at the Railroad crossing provides the most benefit to inundated structures in the 25-year event. Modeling shows that 14 structures will be removed from 1-foot of inundation in the 25-year storm event after the completion of the Railroad alternative alone.	5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	27.9		Burleson
033000002	Town Creek S. Warren Street Improvements	It is proposed to provide an accessible crossing between SW Johnson Ave. and the Railroad in the event of a frequent flooding event. FNI suggests the most feasible location to provide a safe crossing during lower storm events is at S Warren Street. While currently the four 9' x 6' RCB's are overtopped during the 2-year storm event, it is proposed to raise the road approximately 2.5 feet and replace the existing culverts with (5) 12' x 8' RCB's.	2B, 5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	27.9		Burleson
033000003	Town Creek Warren Park Extension	This alternative proposes voluntary acquisitions of structures at risk of flooding and extending the existing Warren Park. Based on modeling results, 19 structures that were once inundated over 1-foot can be bought by the City and the property can be converted into a park, effectively extending Warren Park.	3B, 4A	Tarrant			Property or Easement Acquisition	27.9		Burleson
033000004	Shannon Creek - Culvert to South Shannon Creek	This alternative proposes increasing the capacity of the culverts beneath the commercial development by adding two 11' x 8' RCB's that follow the right-of-way along the northern side of the existing development in addition to the existing two 10' x 8' RCB's that are located beneath the existing development. Results indicate that increasing the culvert capacity alone does not entirely mitigate the street flooding; therefore, channel improvements (including 12,000 cubic yards of excavation) downstream of the development is necessary due to the insufficient capacity of South Shannon Creek downstream of the culvert.	2B, 5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	27.9		Burleson
033000005	Shannon Creek - Culvert to Main Stem Shannon Creek	This alternative recommends facilitating the flow from South Shannon Creek to the main stem Shannon Creek with two 11' x 8' RCB's along SW Wilshire Blvd for 1,900 LF.	2B, 5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	27.9		Burleson
033000006	Town and Shannon Creek Crossing Safety Improvements	4 crossings; Safety improvements may include, but are not limited to, high-water warning flashers, staff gauges, flood hazard signs, and additional light fixtures. The four crossings analyzed include SE Tarrant Ave, N Warren St, SW Johnson Ave, and SE Newton Dr.	1A, 1B	Tarrant			Flood Early Warning Systems	27.9		Burleson
033000007	Spring Meadows Estates Detention Pond Design	Pond redesign and reconstruction to lower normal pool elevation to be below inlets upstream. Increase storage capacity and design outlet works to increase level of service to 100-yr storm event.	3B, 5	Dallas			Regional Detention	9.9		Sachse

033000008	West Irving Creek Phases 2, 3, and 4	FIF - 13792; The West Irving Creek channel improvements project consists of reconstruction of over 2.5 miles of shallow trapezoidal concrete channel as deeper vertical walled channel to increase capacity and relieve historical flooding issues. The vertical walled channels allow the project to remain within a similar footprint as the existing channel to minimize easement needs and impacts to private properties while meeting the flood carrying capacity goals of the project. The channel improvements will also require the reconstruction of 15 road crossings and several miles of wastewater main. In conjunction with the channel improvements upstream detention improvements will be made as well as the implementation of water quality ponds to reduce pollutant load in the channel and to provide amenity to the adjoining neighborhoods.	2B, 4A, 5A, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	67.6	Irving
033000009	University Park Storm Water Improvements for Area 2	unfunded FIF study #13578	5B	Dallas			Storm Drain Improvements	3.7	University Park
033000010	University Park Storm Water Improvements for Area 1 Phase 2	unfunded FIF study #13576	2B, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	3.7	University Park
033000011	Kennedale Valley Lane Streambank Stabilization	unfunded FIF study #13793	2C, 5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	6.7	Kennedale
033000012	University Park Storm Water Improvements for Area 1 Phase 3	unfunded FIF study #13577	5B	Dallas			Storm Drain Improvements	3.7	University Park
033000013	Highland Park Wycliffe Avenue Improvements	unfunded FIF study #13778	2B, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	2.2	Highland Park
033000014	Richardson Cottonwood Creek Headwaters Drainage Improvements	unfunded FIF study #13733	2B, 5B	Collin , Denton			Infrastructure (channels, ditches, ponds, pipes, etc.)	28.6	Richardson
033000015	Richardson N. Plano Road Culvert Improvements at Huffhines Creek	unfunded FIF study #13734	1B, 5B	Collin , Denton			Infrastructure (channels, ditches, ponds, pipes, etc.)	28.6	Richardson
033000016	Arlington VC(A)-1 Drainage and Erosion Improvements	unfunded FIF study #13646	2B, 2C, 5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	101.9	Arlington
033000017	Western Heights Drainage Improvements	Area 1 Stream 2C5; The proposed system would begin near the intersection of Doss Drive and Matador Drive. It would include adding additional curb inlets north of March Lane to capture excess runoff that would contribute to existing flooding conditions in March Lane. Due to the proposed inlets and greater runoff captured in the proposed system, the existing line from March Lane to the outlet into Keen Creek would also have to be replaced for greater capacity.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1	Garland
033000018	Saturn Springs Estates Drainage Improvements	Area 3 Streams 2C3 and 2C4; Increasing storm drain pipe sizes along with other improvements is sufficient to manage flooding in this drainage basin. Pave and grade the alley between Briarwood and Overhill Drives to improve overland flow to the storm inlet there. In addition to upsizing pipe sizes as in Option 1, new lateral lines will be installed along Briarwood, Glenbrook and Overhill Drives to collect drainage and prevent overland flow. Install new drainage lines along Saturn Springs, Larry Drive and Kynn Drive to relieve systems in the area and prevent overland flow.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1	Garland
033000019	Lakewood Addition Drainage Improvements	Area 24; The proposed improvements to Storm Sewer D would be intended to provide relief to houses in the vicinity of Lakeside Drive by capturing additional runoff and reduce the flows that are contributing to Lakeside Drive. A secondary benefit to the proposed improvements in Storm Sewer D would be to provide relief to the houses in the vicinity of Meadowcrest Drive by reducing the excess runoff contributing to Meadowcrest Drive and reduce the ponding water depths at the low point near 1826 Meadowcrest Drive.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1	Garland
033000020	Montclair No 2 & 3 Drainage Improvements	Area 25; The proposed recommended alternative considers the addition of new inlets along the three feeder roads into La Jolla Drive: Intervale Drive, Tahoe Drive, and Mill River Drive. This would allow for surface runoff to be introduced to an underground drainage system earlier rather than collection along La Jolla Drive and its current undersized system. This proposed mitigation is expected to reduce flooding experienced by the residents along La Jolla Drive.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1	Garland

033000021	Centerville Market Place Drainage Improvements	Area 27; The proposed solutions included in this report will mitigate flooding caused by the ultimate flow scenario. It is recommended that the City of Garland encourage the practices of low impact development (LID) and other strategies to reduce the quantity of runoff reaching the city's storm water infrastructure.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1		Garland
033000022	Shady Lane Drainage Improvements	The study consists of 6 potential alternatives to address flooding issues. The report includes H &H models in support of the floodplain reclamation analysis.	3B, 4A	Dallas			Property Acquisition	56.1	Riverine	Garland
033000023	Drainage Improvements for Stream 2C5, Keen Creek, From North Barnes Drive to North Yale Drive	Evaluate existing drainage conditions for the area and determine the current areas impacted by flooding from the stream. It includes developing recommendations to reduce flooding and erosion impacts throughout the study area.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1	Riverine	Garland
033000024	Miami Drive Drainage Improvements	This study included a hydraulic analysis and recommendations to mitigate for bank erosion on stream 2C-1.	2B, 2C, 5B	Dallas			Infrastructure (channels, ditches, ponds, pipes, etc.)	56.1	Riverine	Garland
033000025	Arlington Bonneville/Greenbrook Drainage Improvements	unfunded FIF project;	2B, 5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	101.9		Arlington
033000026	Arlington California Lane Drainage Improvements	unfunded FIF project;	5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	101.9		Arlington
033000027	Arlington Harvest Hills Channel and Drainage Improvements	unfunded FIF project;	5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	101.9		Arlington
033000028	Arlington Randol Mill (Cooper to Collins)	unfunded FIF project;	5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	101.9		Arlington
033000029	Arlington Stream CC2 Drainage Improvements	unfunded FIF project;	5B	Tarrant			Infrastructure (channels, ditches, ponds, pipes, etc.)	101.9		Arlington



**Table 14: Potentially feasible flood management strategies identified by RFPG**

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area	Flood Risk Type	Sponsor
032000001	Lavon Warning System	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	1A	Collin			Flood Warning Systems	3.06	Riverine, Urban	Lavon
032000002	Lindsay Flood Warning and Public Safety Improvements	Citywide “reverse 911” to enable local emergency officials to notify emergency information pertaining to flood advisories, flood warnings, and flood evacuations.	1A	Cooke			Flood Warning Systems	1.59	Riverine, Urban	Lindsay
032000003	Dallas County Addition of Low Water Crossing Signs and Gates	Identify and add low water crossing signs and gates to low water crossing areas as described in The Road to The Future Report	1A, 1B	Dallas			Flood Warning Systems	67.96	Riverine, Urban	Irving
032000004	Richardson Flood Warning and Public Safety Improvements	Monitor streams and waterways for potential flooding problems including installation of gauges, sensors, and precipitation measuring sites.	1A	Dallas			Flood Warning Systems	28.67	Riverine, Urban	Richardson
032000005	Timber Creek Flood Warning System Installation	Purchase and Install Flood Warning Systems in Key Areas Along Timber Creek	1A	Denton			Flood Warning Systems	3.25	Riverine, Urban	Lewisville
032000006	Houston County Stream and Rain Gauge Installation	Install stream and rain gauges in flood prone areas and waterways as part of new alert notification system	1A	Houston			Flood Warning Systems	818.01	Riverine, Urban	Houston County
032000007	Hunt County Flood Warning and Public Safety	Adopt and Promote the program of “Turn Around Don’t Drown Campaign.” Implement early warning program.	1A, 1B	Hunt			Flood Warning Systems	29.35	Riverine, Urban	Hunt County
032000008	City of Kemp Siren Notification System	Install siren notification system for disasters, including dam failure of Kemp Lake Dam	1A	Kaufman			Flood Warning Systems	2.52	Riverine, Urban	Kemp
032000009	Leon County Local Flood Warning System	This action proposes a local flood warning system to reduce the potential impacts of future flood events	1A	Leon			Flood Warning Systems	811.37	Riverine, Urban	Leon County
032000010	Rockwall County Warning Signs and Flood Control Gates	Install automatic flood warning gates to prevent access into flooded areas. Install warning signs and flood control	1A, 1B	Rockwall			Flood Warning Systems	148.55	Riverine, Urban	Rockwall County
032000011	Chambers Creek Stream Flow Monitoring System	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	1A	Tarrant			Flood Warning Systems	1.75	Riverine, Urban	Everman
032000012	Creek Level Monitoring Systems and Weather Stations Installation	Install creek level monitoring systems and weather stations	1A	Tarrant			Flood Warning Systems	902.81	Riverine, Urban	Mansfield
032000013	Dalworthington Flood Warning System	Purchase and install a technological based high water detection system for low water crossings to mitigate the hazards when the location floods	1A, 1B	Tarrant			Flood Warning Systems	1.82	Riverine, Urban	Dalworthington
032000014	Colleyville Flood Warning System	Enhance high water warning system by adding automatic gates on the streets that normally flood	1A, 1B	Tarrant			Flood Warning Systems	13.22	Riverine, Urban	Colleyville
032000015	Haslet Flood Warning System	Install flood warning devices to low water crossing.	1A, 1B	Tarrant			Flood Warning Systems	9.34	Riverine, Urban	Haslet

032000016	Additional Rain/Stream Gauges for 13 locations	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, Robinson Road underneath I-20, Dalworth Creek at NW 22nd Street, Soap Creek at Prairie Ridge, Johnson Creek at High flow bypass outlet, Kirby Creek at Robinson Road, Lakeridge at Fish Creek	1A	Dallas			Flood Warning Systems	87.56	Riverine, Urban	Grand Prairie
032000017	Additional Low Water Crossing Flashing Lights and Automated Gates	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)	1B	Dallas			Flood Warning Systems	87.56	Riverine, Urban	Grand Prairie
032000018	Grayson County Flood Warning and Public Safety Improvements	Create improved gauge notification system. Increased Public Awareness prior to occurrences and during flooding.	1A	Grayson			Flood Warning Systems	343.54	Riverine, Urban	Grayson County
032000019	Dallas County Floodplain Management	Manage the Floodplain beyond the minimum requirements. This action will include developing an incentive program for building above the required freeboard minimum	3A	Dallas			Floodplain Management Policy	908.03	Riverine, Urban	Dallas County
032000020	Anderson County Structure Permitting Requirement Update	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	3A, 4C	Anderson			Floodplain Management Policy	1078.46	Riverine, Urban	Anderson County
032000022	Flood Protection Ordinance Updates	Develop and Implement a City and Town flood protection ordinance	3A	Denton			Floodplain Management Policy	60.11	Riverine, Urban	Corinth, Hickory Creek, Lake Dallas, Little Elm, Shady Shores, The Colony,
032000023	Hill County Flooding Regulations Update	Catalog, evaluate, and update any floodplain regulations within the City to comply with the latest FEMA regulations.	3A, 4C	Hill			Floodplain Management Policy	986.27	Riverine, Urban	Hill County
032000024	Freestone County Flood Damage Prevention Ordinance	Develop and Implement a Flood Damage Prevention Ordinance	3A, 4C	Freestone			Floodplain Management Policy	788.65	Riverine, Urban	Freestone County
032000025	Caney City Floodproofing Ordinances	Implement ordinances to ensure new housing developments meet current floodproofing, as well as ensure that critical facilities owned by jurisdiction are protected from flood.	4C	Henderson			Floodplain Management Policy	1.21	Riverine, Urban	Caney City
032000026	Leon County Floodplain Construction Restrictions Re-Evaluation	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	4C	Leon			Floodplain Management Policy	811.37	Riverine, Urban	Leon County
032000027	Rockwall County Flood Prevention Ordinance	Update Flood Prevention ordinance, adopting a “no-rise” in Base Flood Elevation in the 100-year floodplain	3A, 4C	Rockwall			Floodplain Management Policy	8.50	Riverine, Urban	Royse City
032000028	San Jacinto County Ordinance to Control Location of Development	Strengthen ordinance(s)/code(s) to control location of development, especially in low lying flood hazard areas	4A, 4C	San Jacinto			Floodplain Management Policy	629.42	Riverine, Urban	San Jacinto County, Shepherd, Coldspring, Point Blank
032000029	Montague County Floodplain Policy Update	Increase freeboard requirements for permitting structures in the SFHA; Update local flood ordinance to prohibit granting of variance in SFHA	3A, 4A, 4C	Montague			Floodplain Management Policy	405.03	Riverine, Urban	Montague County
032000030	Town of Westlake's Floodplain Mitigation Ordinances Review	Review and enhance the Town of Westlake's floodplain mitigation ordinances and policies as needed	4C	Tarrant			Floodplain Management Policy	7.05	Riverine, Urban	Westlake

032000031	Willis Point Structure Permitting Requirement Update	Increase freeboard requirements for permitting structures in the SFHA; Adopt a "no-rise" in BFE in the 100-year floodplain; Update local flood ordinance	3A, 4C	Van Zandt			Floodplain Management Policy	3.68	Riverine, Urban	Wills Point
032000032	Wise County Storm Water Management Plan	Create a Storm water Management Plan	4C	Wise			Floodplain Management Policy	922.16	Riverine, Urban	Wise County, Alvord
032000033	Cooke County Floodplain Regulation Updates	Update local ordinances to include regulation of floodplain so that the community may participate in NFIP program.	3A, 4C	Cooke			Floodplain Management Policy	895.55	Riverine, Urban	Valley View
032000034	City of Sachse Parks Construction Along Low Lying Areas	Establish city parks along low-lying areas	4A, 5A	Dallas			Floodplain Preservation & Zoning Regulations	9.85	Riverine, Urban	Sachse
032000035	Carrollton Targeted Flood Remediation	Plan for and establish City-owned stand-by contracts for targeted flood remediation of private homes if authorized by City Administration.	3B, 4C	Dallas			Floodplain Preservation & Zoning Regulations	40.29	Riverine, Urban	Carrollton
032000036	Sunnyvale Floodplain Preservation Program	Restrict future development in high risk areas.	4C	Dallas			Floodplain Preservation & Zoning Regulations	16.75	Riverine, Urban	Sunnyvale
032000037	Itasca Zoning Regulations	Establish zoning regulations to prohibit residential construction in flood prone areas	4C	Hill			Floodplain Preservation & Zoning Regulations	1.24	Riverine, Urban	Itasca
032000038	Kaufman County Regulation Standards to Protect Open Space Flood-Prone Areas	Conduct program in conjunction with local communities to incorporate regulatory standards to protect open space flood-prone areas	4A, 4C, 5A	Kaufman			Floodplain Preservation & Zoning Regulations	766.50	Riverine, Urban	Kaufman County
032000039	Tarrant County Promotion of Open Space and LID	Promote the inclusion of low impact development requirements in local and regional ordinances	5A	Tarrant			Floodplain Preservation & Zoning Regulations	902.81	Riverine, Urban	North Central Texas Council of Govt
032000040	Itasca Land Use Planning Mechanisms	Implement strategic land-use planning mechanisms to ensure flood-resistant development occurs in flood-prone areas	4A, 4C, 5A	Hill			Floodplain Preservation & Zoning Regulations	1.24	Riverine, Urban	Itasca
032000041	Dallas County Land Use Program	Continue to develop and maintain special use parks and green belt areas as flooding mitigation strategies & further prohibiting development in the floodplain.	4A, 4C, 5A	Dallas			Floodplain Preservation & Zoning Regulations	28.67	Riverine, Urban	Richardson
032000042	Houston County Maintenance Program	Conduct annual program to clear debris from bridges, box culverts, and drainage systems throughout unincorporated county. Implement program to clear debris from flood-prone areas, bridges, drains and culverts to prevent overtopping and backup during flash floods.	5B	Houston			Preventive Maintenance Programs	818.01	Riverine, Urban	Houston County
032000043	Kaufman County Agreement to Monitor High Hazard Dams	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	1A, 4C	Kaufman			Preventive Maintenance Programs	766.50	Riverine, Urban	Kaufman County, Terrell, Kemp, Kaufman
032000044	Rowlett Creek Tributary Maintenance Program	Routine channel maintenance and erosion control for Rowlett Creek Tributary (Stream 2D13). Keep creek and inlets clear of debris and overgrown vegetation.	5B	Dallas			Preventive Maintenance Programs	57.07	Riverine, Urban	City of Garland
032000045	Addison-Carrollton Debris Cleaning Program	Adopt and implement a program for clearing debris from bridges, drains and culverts.	5B	Dallas			Preventive Maintenance Programs	41.56	Riverine, Urban	Addison, Carrollton
032000046	Navarro County Waterways Clearing	Clear waterways of debris and prevent further collection of debris in waterways	5B	Navarro			Preventive Maintenance Programs	24.01	Riverine, Urban	Corsicana
032000047	Parker County Biannual Dam Inspection Program	Create and implement a biannual inspection program to inspect the city-owned dams to help prevent dam failure	3	Parker			Preventive Maintenance Programs	906.22	Riverine, Urban	Weatherford
032000048	Tarrant County Semi-Annual Levee Inspections	Perform semi-annual inspection of the levee to look for any maintenance problems or levee failure issues	3	Tarrant			Preventive Maintenance Programs	902.81	Riverine, Urban	Richland Hills

032000049	Rowlett Creek Tributary Maintenance Program	Routine channel maintenance and erosion control for Rowlett Creek Tributary (Stream 2D13). Keep creek and inlets clear of debris and overgrown vegetation.	5B	Collin , Dallas			Preventive Maintenance Programs	885.97	Riverine, Urban	City of Sachse
032000050	Hazard Hardening Retrofit for Polk County Facilities	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 resilient roofing materials, foundation support and expansion joints, shade providing-drought resistant landscaping	n/a	Polk			Property Acquisition and/or Floodproofing Programs	1118.56	Riverine, Urban	Polk County, Corrigan, Goodrich, Livingston, Onalaska, Seven Oaks
032000051	Acquire and Protect Red Oak Creek, Bentle Branch Creek, and Balcones Escarpment	Acquire floodplain and protect environmentally sensitive areas and convert them into open space land	4A, 4C, 5A	Dallas			Property Acquisition and/or Floodproofing Programs	32.54	Riverine, Urban	Cedar Hill
032000052	Ten Mile Creek Comprehensive Loss Reduction Program	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	3B, 4A	Dallas			Property Acquisition and/or Floodproofing Programs	33.08	Riverine, Urban	Lancaster
032000053	Midway Property Acquisition and Elevation Program	Acquire existing homes located in the identified special flood hazard area (the 100-year floodplain).	3B	Madison			Property Acquisition and/or Floodproofing Programs	1.61	Riverine, Urban	Midway
032000054	Montague County Property Acquisition and Land Preservation Program	Acquire and preserve open space adjacent to floodplain areas.	3B, 4A, 5A	Montague			Property Acquisition and/or Floodproofing Programs	405.03	Riverine, Urban	Montague County
032000055	Montague County Sewage Treatment Plants and Sewage Lift Stations Flood-Proofing Program	Flood-proof sewage treatment plants in flood hazard / low-lying areas. Raise electrical components of sewage lift stations above the Base Flood Elevation (BFE)	n/a	Montague			Property Acquisition and/or Floodproofing Programs	405.03	Riverine, Urban	Montague County
032000056	San Jacinto County Voluntary Property Acquisition & Elevation Program	Pursue voluntary acquisition projects for flood prone properties. Elevate homes in low lying or flood prone areas.	3B	San Jacinto			Property Acquisition and/or Floodproofing Programs	629.42	Riverine, Urban	Shepherd, San Jacinto County
032000057	Johnson County Acquisition of Flood Prone Structures	Acquire, relocate, and/or elevate flood prone structures	3B	Johnson			Property Acquisition and/or Floodproofing Programs	360.55	Riverine, Urban	Johnson County
032000058	Acquisition of Repetitive Loss Properties in the Deep River Plantation Subdivision	Acquire repetitive flood loss properties and properties prone to flooding in the Deep River Plantation Subdivision	3B	Walker			Property Acquisition and/or Floodproofing Programs	802.33	Riverine, Urban	Walker County
032000059	Anderson County Floodplain Acquisition and Preservation Program	Acquire and preserve open spaces adjacent to floodplain areas.	3B, 4A, 5A	Anderson			Property and Land Acquisition Programs	1078.46	Riverine, Urban	Anderson County
032000060	Collin County Property and Structures Buyout Program	Develop and implement a buyout program for personal properties and structures located in the floodplain	3B	Collin			Property and Land Acquisition Programs	885.97	Riverine, Urban	Collin County
032000061	Cooke County Acquisition of Repetitive Loss and Damaged Properties	Purchase and removal of damaged homes that are located in the floodplain. Buyout of repetitive flood loss properties in the Wilson Court area.	3B	Cooke			Property and Land Acquisition Programs	895.55	Riverine, Urban	Cooke County
032000062	Dallas County Acquisition of Flood-Prone and Repetitive Loss Properties	Acquisition / demolition of flood-prone and repetitive loss properties.	3B	Dallas			Property and Land Acquisition Programs	908.03	Riverine, Urban	Dallas County
032000063	Grayson County Buyout of Repetitive Flood Properties	Buyout of repetitive flood properties, which includes any structures found to be located in flood areas that arearen't incorporated in NFIP areas.	4A, 4B	Grayson			Property and Land Acquisition Programs	343.54	Riverine, Urban	Grayson County
032000064	Terrell Property Acquisition Program	Acquire high risk and repetitive flood-prone structures	3B	Kaufman			Property and Land Acquisition Programs	27.59	Riverine, Urban	Terrell

032000065	Leon County Property Acquisition Program	Acquire any repetitive loss structures located below the high hazard dams and homes located in the floodplain.	3B	Leon			Property and Land Acquisition Programs	811.37	Riverine, Urban	Leon County
032000066	City of Fate Floodplain Acquisition and Preservation Program	Acquire, reuse, and preserve open spaces adjacent to floodplain areas	3B, 4A, 5A	Rockwall			Property and Land Acquisition Programs	12.25	Riverine, Urban	Fate
032000067	City of Kennedale Property Acquisition Program - Village Creek	Acquire all private property located within the Village Creek 100-year floodplain in the City of Kennedale	3B	Tarrant			Property and Land Acquisition Programs	6.67	Riverine, Urban	Kennedale
032000068	City of Mansfield Property Acquisition Program	Acquire properties at risk of flooding and permanently remove them from special flood hazard areas.	3B	Tarrant			Property and Land Acquisition Programs	36.60	Riverine, Urban	Mansfield
032000069	Tarrant County Property Acquisition Program	Create a Buyout Program for Repetitive Loss Properties	3B	Tarrant			Property and Land Acquisition Programs	902.81	Riverine, Urban	Arlington, Azle, Bedford, Blue Mound, Colleyville, Crowley, Dalworthington, Euless, Everman, Forest Hill, Forth Worth, Groveton, Haltom City, Haslet, Hurst, Keller, Kennedale, Lake Worth, Lakeside, North Richland Hills, Pantego, River Oaks, Saginaw, Southlake, Tarrant County, Watauga, Westlake, Westworth Village
032000070	Walker County Voluntary Buyout Program	The county and partnering jurisdictions will begin a voluntary buyout program for insured severe repetitive loss properties that are in the floodplain	3B	Walker			Property and Land Acquisition Programs	802.33	Riverine, Urban	Walker County, New Waverly, Riverside
032000071	Wise County Repetitive Flood Loss Buyout Program	Develop a buyout program for repetitive flood loss areas within the county	3B, 4A	Wise			Property and Land Acquisition Programs	922.16	Riverine, Urban	Wise County
032000072	City of Chico Property Acquisition Program	City will acquire property and structures in the flood zone along Dry Creek and its tributaries and remove structures to prevent loss of life and property during flooding events.	3B	Wise			Property and Land Acquisition Programs	1.52	Riverine, Urban	Chico
032000073	Town Creek Warren Park Extension (Property Acquisition Program)		3B, 4A	Tarrant			Property and Land Acquisition Programs	28.46	Riverine, Urban	Burleson
032000074	City of Hurst Buyout Program	107 total structures across the Lorean, Valley View, and Walker watersheds	3B	Tarrant			Property and Land Acquisition Programs	9.97	Riverine, Urban	City of Hurst
032000075	Anderson County Flood Education Program	Coordinate and implement a natural hazards public awareness campaign. Educate community on the dangers of low water crossings through the installation of warning signs and promotion of "Turn Around, Don't Drown" Program.	1B, 6B	Anderson			Public Awareness & Educational Programs	1078.40	Riverine, Urban	Anderson County
032000076	Cooke County Public Information and Education	"Turn Around Don't Drown" campaign.	1B	Cooke			Public Awareness & Educational Programs	895.55	Riverine, Urban	Lindsay
032000077	Cooke County Flood Insurance Public Awareness Program	Education of the public on the importance of Flood Insurance.	6B, 6C	Cooke			Public Awareness & Educational Programs	895.55	Riverine, Urban	Cooke County
032000078	Glenn Heights-Seagoville-Wilmer Flood Safety Improvements and Education	Educate community on the dangers of low water crossings through the installation of warning signs and promotion of "Turn Around, Don't Drown" Program	1B, 6B	Dallas			Public Awareness & Educational Programs	32.34	Riverine, Urban	Glenn Heights, Seagoville, Wilmer
032000079	Krum "Turn Around, Don't Drown" Campaign	Implement "Turn Around, Don't Drown" campaign.	1B, 6B	Denton			Public Awareness & Educational Programs	2.64	Riverine, Urban	Krum
032000080	Fannin County Flood Safety Education	Education programs such as "Turn around Don't Drown." Work with local newspaper to run flood safety information. Public education via water bills, social media, and webpage to promote flood safety.	1B, 6B	Fannin			Public Awareness & Educational Programs	43.95	Riverine, Urban	Fannin County
032000081	Fannin County Flood Insurance Education	Develop and distribute information about the availability and need for flood insurance. Public awareness of NFIP.	6B, 6C	Fannin			Public Awareness & Educational Programs	43.95	Riverine, Urban	Fannin County

032000082	Grayson County Flood Insurance Education	Educate local residents on the NFIP program and the importance of purchasing flood insurance.	6B, 6C	Grayson			Public Awareness & Educational Programs	343.54	Riverine, Urban	Grayson County
032000083	Grayson County Flood Safety Education	Turn Around Don't Drown Campaign. Educate property owners near high hazard dams of the potential of a dam failure. Better inform residents of mitigation activities that they can implement in their homes.	1B, 6B	Grayson			Public Awareness & Educational Programs	343.54	Riverine, Urban	Grayson County
032000084	Hill County Flooding Education and Outreach Program	Develop a coordinated education, outreach, and training program to inform and educate the public about the dangers of flooding and how to prevent flood damages to property.	6B	Hill			Public Awareness & Educational Programs	986.27	Riverine, Urban	Hill County
032000085	Houston County Flood Insurance Education	Develop and implement NFIP public education program for residents affected by high flood risk areas.	6B, 6C	Houston			Public Awareness & Educational Programs	818.01	Riverine, Urban	Houston County
032000086	Houston County Public Education on Dam Education	Educate the Public on mitigation activities that can help protect their properties in the event of structural failures and extreme flooding	6B	Houston			Public Awareness & Educational Programs	818.01	Riverine, Urban	Houston County
032000087	Jack County Flood Education	Implement a flood awareness program by providing FEMA / NFIP materials to mortgage lenders, real estate agents and insurance agents	6B, 6C	Jack			Public Awareness & Educational Programs	659.30	Riverine, Urban	Jack County
032000088	Kaufman County Flood Education Program	Conduct countywide outreach to educate residents on flood hazards, mitigation techniques and promote availability of NFIP flood insurance.	6B, 6C	Kaufman			Public Awareness & Educational Programs	766.50	Riverine, Urban	Kaufman County
032000089	Montague County Flood Education	Implement a flood awareness program by providing FEMA / NFIP materials to mortgage lenders, real estate agents and insurance agents and place them in local libraries.	6B, 6C	Montague			Public Awareness & Educational Programs	405.03	Riverine, Urban	Montague County
032000090	Parker County Flood and Dam Education	Create and implement a community-wide educational campaign to educate residents about the NFIP and dam safety	6B, 6C	Parker			Public Awareness & Educational Programs	906.22	Riverine, Urban	Weatherford, Hudson Oaks, Aledo, Parker County
032000091	Livingston Flood Damage Mitigation Educational Program	Establish an educational program to teach citizens how to mitigate flood damage to their property	6B	Polk			Public Awareness & Educational Programs	8.75	Riverine, Urban	Livingston
032000092	Tarrant County Flood Education	Provide flood risk and mitigation risk mapping materials for property owners in floodplains. Include mitigation techniques	6B	Tarrant			Public Awareness & Educational Programs	2.02	Riverine, Urban	River Oaks
032000093	Tarrant County Flood Education Program	Conduct NFIP community workshops to provide information and incentives for property owners to acquire flood insurance.	6B, 6C	Tarrant			Public Awareness & Educational Programs	902.81	Riverine, Urban	Arlington, Azle, Bedford, Blue Mound, Colleyville, Crowley, Dalworthington, Edgecliff, Euless, Everman, Forest Hill, Forth Worth, Haltom City, Haslet, Hurst, Keller, Kennedale, Lake Worth, Lakeside, Pantego, River Oaks, Saginaw, Southlake, Tarrant County, Watauga, Westlake, Westworth Village
032000094	Van Zandt County Flood Safety Improvements and Education	Educate community on the dangers of low water crossings	1B, 6B	Van Zandt			Public Awareness & Educational Programs	859.45	Riverine, Urban	Wills Point
032000095	Walker County Floodplain Regulatory Awareness Public Information Campaign	Rewrite, improve, and implement new local floodplain regulations, to include a public information campaign on regulatory awareness	4C, 6B	Walker			Public Awareness & Educational Programs	802.33	Riverine, Urban	New Waverly, Riverside
032000096	City of Chico NFIP Education Program	Distribute information to downstream property owners educating homeowners about the National Flood Insurance Program.	6B, 6C	Wise			Public Awareness & Educational Programs	1.52	Riverine, Urban	Chico
032000097	Dallas County Open Space System Program and Dallas Trails Program	Adopt and implement Dallas County Open Space System Program and Dallas Trails Program.	4A, 5A	Dallas			Nature-Based Solutions	908.03	Riverine, Urban	Dallas County
032000098	Parker County Nature-Based Practices for Flood Control	Implement the use of green infrastructure	5A	Parker			Nature-Based Solutions	906.22	Riverine, Urban	Parker County, Hudson Oaks

032000099	Krugerville waterways stabilization program.	Develop and implement waterways stabilization program.	5B	Denton			Erosion Control Programs	1.32	Riverine, Urban	Krugerville
032000100	City of Euless Stream Bank Protection Program	Develop a plan to reduce stream bank erosion impacts due to flooding along specific creeks	5B	Tarrant			Erosion Control Programs	16.20	Riverine, Urban	Euless
032000101	Lewisville Storm Water Utility Fee	Levy a storm water fee for developers to fund developments to the storm water drainage systems	5B	Denton			Funding Mechanisms	43.48	Riverine, Urban	Lewisville