

LOWER RIO GRANDE REGIONAL FLOOD PLANNING GROUP MEETING

RFPG Meeting
Agenda Items #8

October 29, 2025

AGENDA

- ☐ Task 2a – Update on Existing Conditions Flood Quilt Progress and Public Meetings
- ☐ Task 2b – Future Conditions – Flood Exposure Update
- ☐ Task 3a – Floodplain Management Practices
 - ☐ Modifications? Continue to recommend?
- ☐ Task 4a – Update on received FMXs for 2028 Cycle
- ☐ Task 4b – Update on Technical Memorandum



Task 2A: Existing Conditions Flood Risk

Data Sources
Map Review and Public Comments



TASK 2A: EXISTING CONDITIONS FLOOD QUILT

FLOOD TYPE

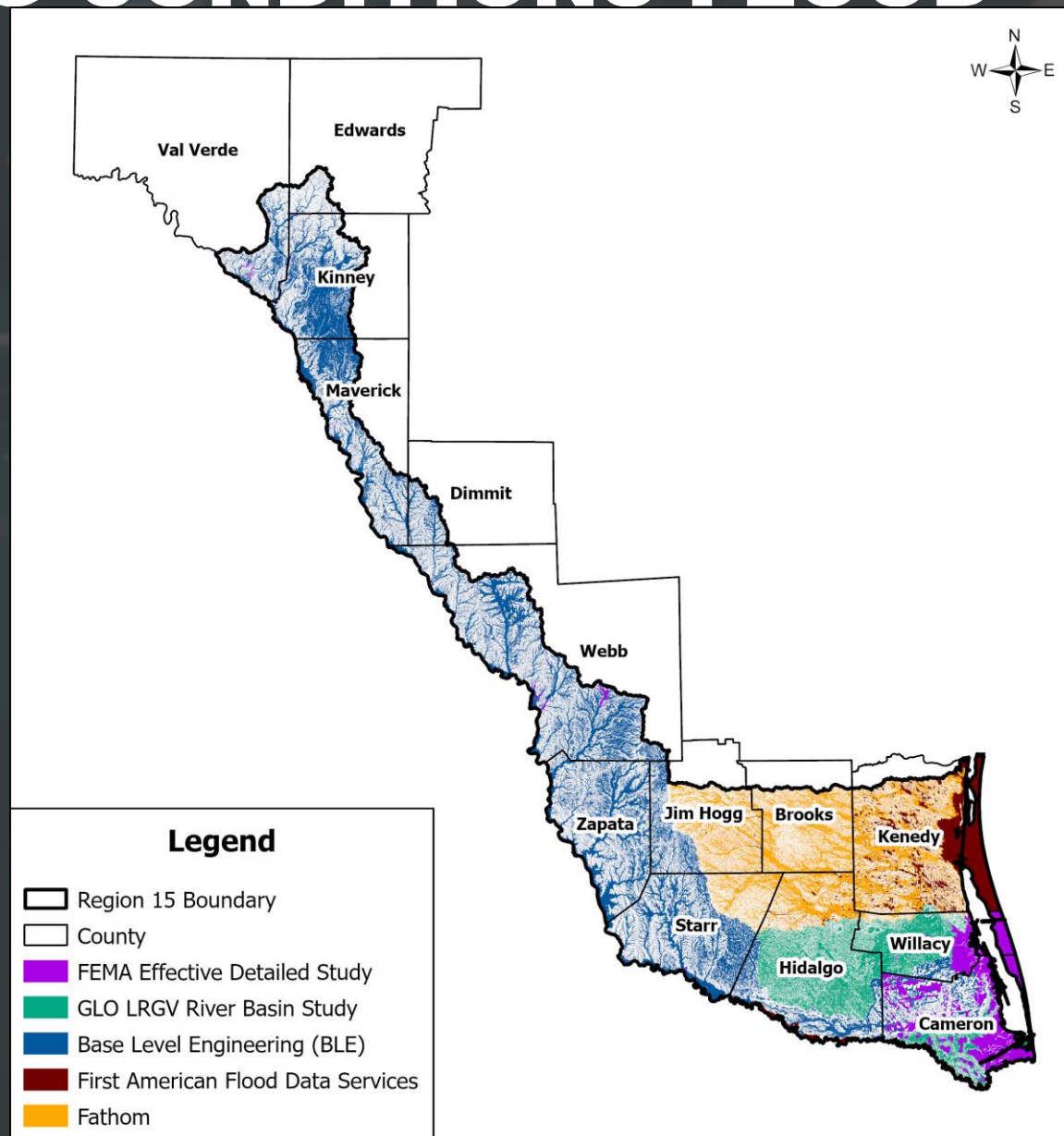
- Riverine
- Coastal
- Pluvial including Urban flooding

FLOOD EVENT TYPES

- 10-Year
- 100-Year
- 500-Year
- Other

DATA SOURCES

- TWDB Flood Quilt (BLE)
- FEMA
- Regional/Community Data
- FATHOM



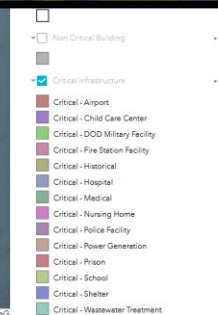
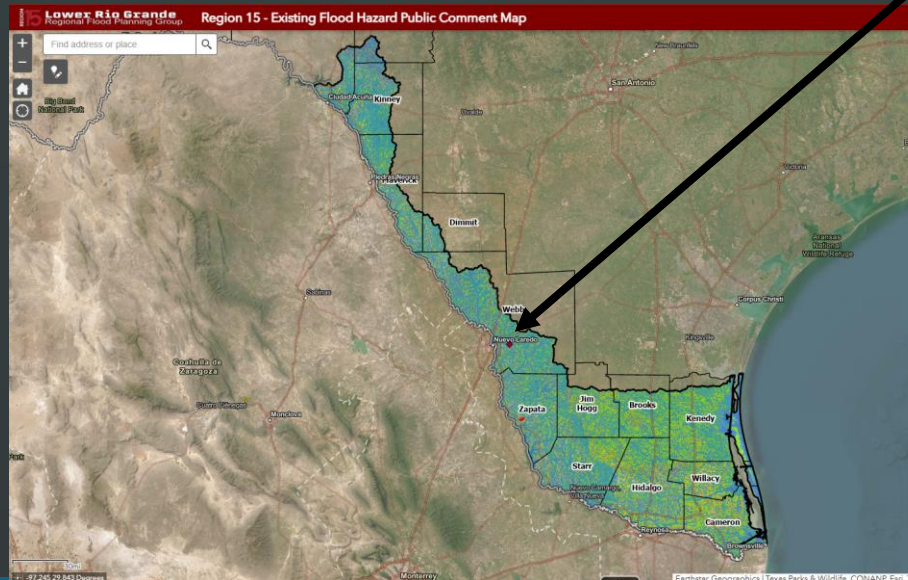


TASK 2A: EXISTING CONDITIONS FLOOD QUILT – PUBLIC COMMENTS

Public meeting – Existing Flood Risk:

- Weslaco – September 10
 - 43 attendees
- Laredo – September 22
 - 22 attendees

Public feedback received through the Existing Hazard Web Map



HELP SHAPE THE LOWER RIO GRANDE
REGIONAL FLOOD PLAN

SEPTEMBER 10, 2025
4:00 PM TO 6:00 PM

REGION 15 LOWER RIO GRANDE
REGIONAL FLOOD PLANNING GROUP
PUBLIC MEETING

UTRGV Center for Innovation and Commercialization
307 E. Railroad St. WCIC 118
Weslaco, Texas 78596

RSVP & Questions:
evelyn@texaspathfinder.com



HELP SHAPE THE LOWER RIO GRANDE
REGIONAL FLOOD PLAN

SEPTEMBER 22, 2025
2:00 PM TO 4:00 PM

REGION 15 LOWER RIO GRANDE
REGIONAL FLOOD PLANNING GROUP
PUBLIC MEETING

Joe A. Guerra Laredo Public Library
Multipurpose Room
1120 E. Calton Rd.
Laredo, Texas 78041

If you are unable to attend in person, please join the meeting virtually:
[Teams Meeting Link](#)

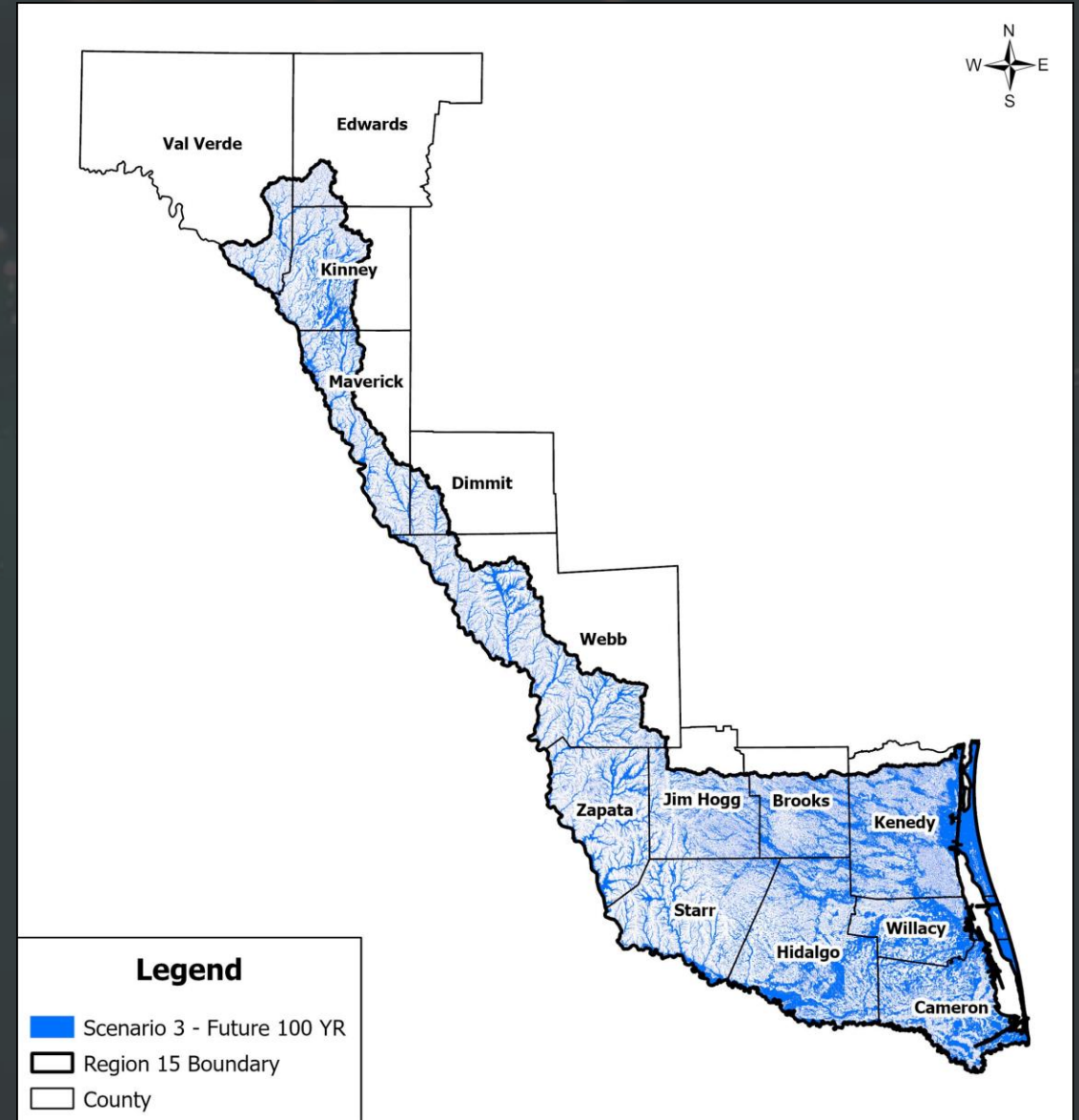
RSVP & Questions:
evelyn@texaspathfinder.com



TASK 2B – FUTURE CONDITION FLOOD QUILT

Year 2060 Future Floodplain Scenarios:

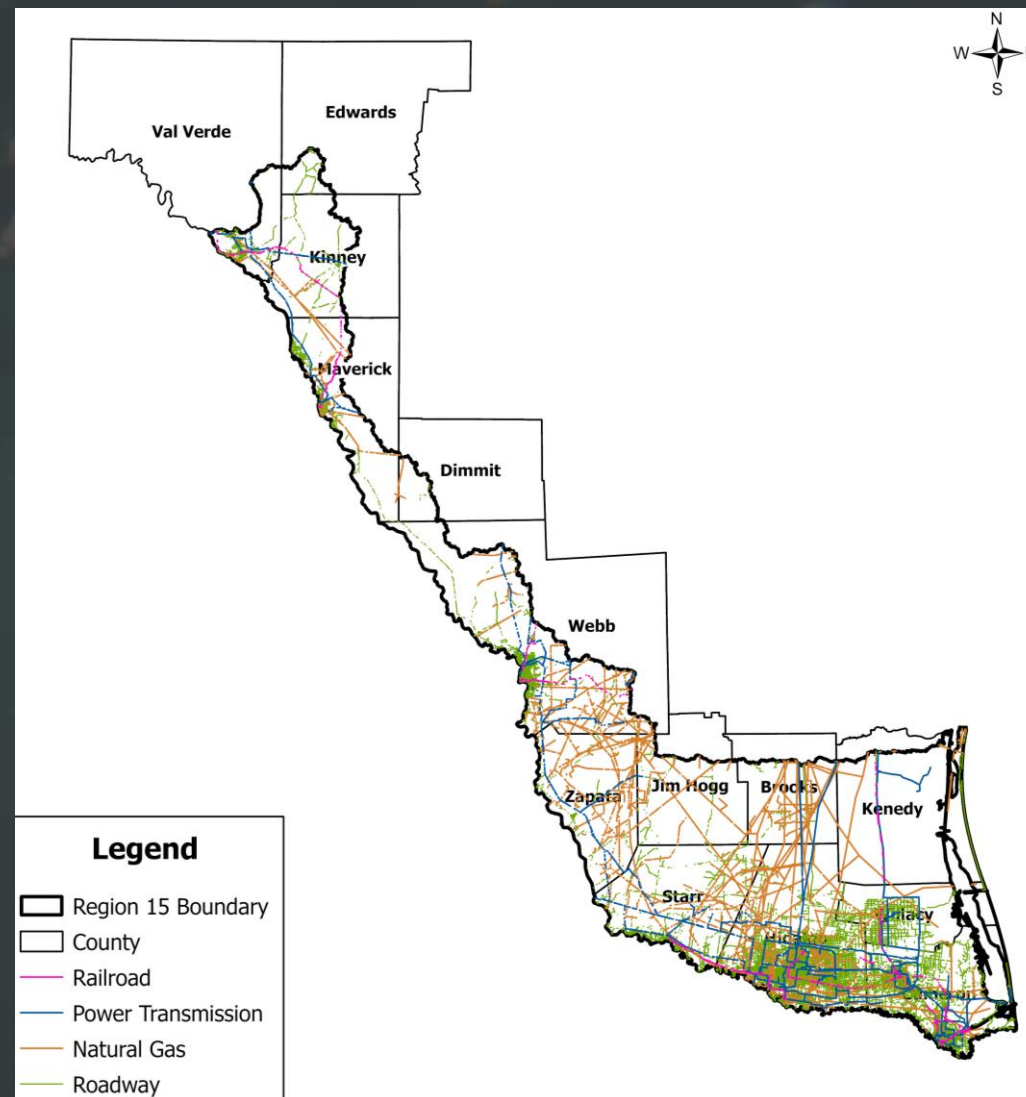
- Scenario 1: Minimal future climate forcing with future subsidence and land use change
- Scenario 2: Moderate future climate forcing with future subsidence and land use change
- **Scenario 3: Significant future climate forcing with future subsidence and land use change**
- Scenario 4: Moderate future climate forcing only without future subsidence and land use change





TASK 2B: FUTURE CONDITION FLOOD EXPOSURE

Exposure Type	10-year	100-year	500-year
Buildings	79,953	187,276	237,498
Agricultural Land	711,459 ac	1,344,028 ac	1,735,370 ac
Roadways	3226 mi	6080 mi	7899 mi
Natural Gas Lines	907 mi	1519 mi	1907 mi
Railroads	32 mi	97 mi	161 mi
Power Transmission Lines	441 mi	781 mi	993 mi





TASK 3A: FLOODPLAIN MANAGEMENT PRACTICES

CYCLE 2 DATA RECOMMENDED STANDARDS

TASK 3A: EXISTING FLOODPLAIN MANAGEMENT PRACTICES

Quantifies baseline information on floodplain management practices for Region 15 entities

Task 3A Components

- Floodplain Management Regulations
- Regulations Established by Texas Water Code
- NFIP Participation
- Standards Exceeding Minimum Requirements
- Enforcement Level
- Existing Stormwater/Drainage Fees
- Web Links to Regulations

TASK 3A: DATA COLLECTION AND REVIEW PROCESS-CYCLE 1

Review of Documents

- Flood ordinances
- Drainage Master Plans
- Subdivision Regulations
- FEMA NFIP Participation List

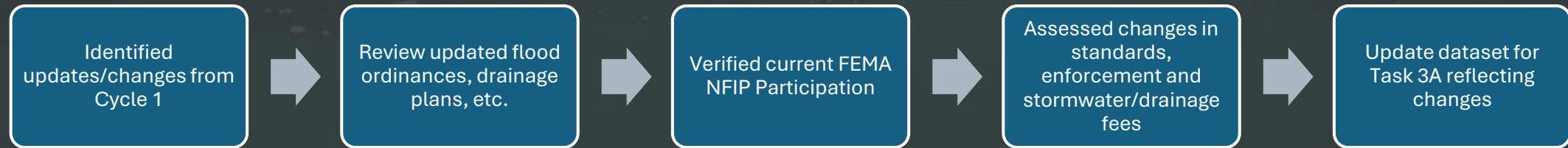
Data Evaluation

- Minimum flood elevation requirements
- Identified ordinances exceeding minimum standards (lowest floor > BFE)

Standards Classification

- None: No floodplain management practices
- Low: Meets minimum NFIP Standards
- Moderate: Includes higher standards for freeboard, detention or fill restrictions
- Strong: Exceeds all NFIP standards or participates in the Community Rating System (CRS)

TASK 3A: DATA COLLECTION AND REVIEW PROCESS-CYCLE 2



TASK 3A: EXISTING FLOODPLAIN MANAGEMENT PRACTICES DATA

Cycle 1	Counties	Cities
Participating in NFIP	93%	94%
Higher than NFIP Minimum Standards	21%	21%

Cycle 2	Counties	Cities
Participating in NFIP	93%	89%
Higher than NFIP Minimum Standards	14%	19%

TASK 3A: REGION-WIDE RECOMMENDED FLOODPLAIN MANAGEMENT STANDARDS



Floodplain Mapping

Use FEMA FIRM maps for BFEs when no detailed H&H or BLE studies are available



Buyout Programs

Implement buyouts where flood-related injury, loss, or structural mitigation is infeasible; assist relocation to lower-risk areas (if funding is available)



Storm Drainage

- Design for 25-year storm underground (storm sewer/pipe system)
- Contain 100-year storm within the ROW



Roadways

- Curb-and-gutter roads: 10-year event below curb
- Culverts: 25-year design



Building Elevations

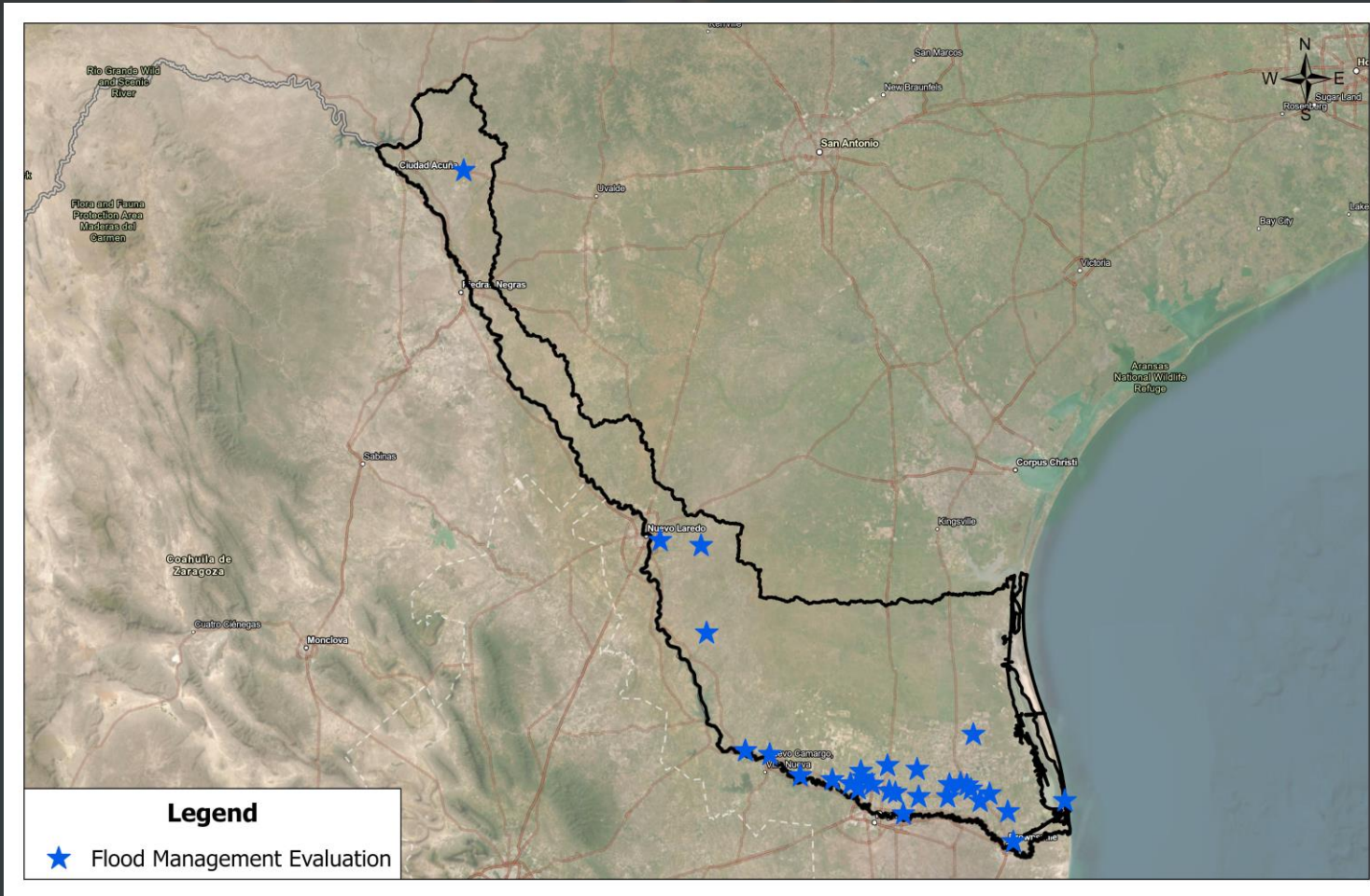
Set finished floors 1 ft above 100-year BFE (riverine or coastal, whichever is higher)
Applies to new, retrofitted, and coastal construction.



TASK 4A – IDENTIFICATION AND EVALUATION OF POTENTIAL FMXs



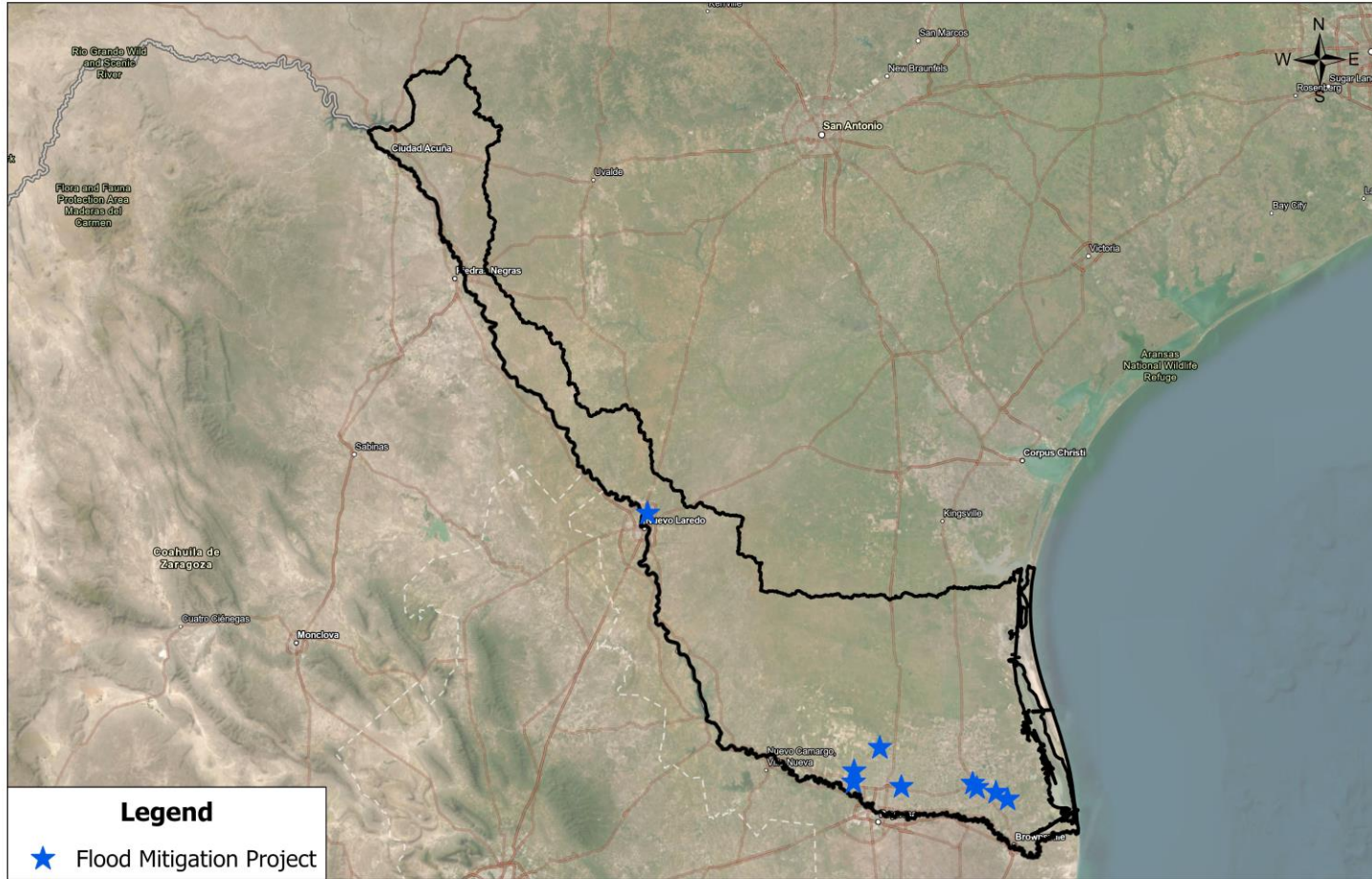
TASK 4A - FMEs RECEIVED FOR CONSIDERATION



Entity	Number of FMEs
Alamo	2
Alton	1
Brownsville	1
Cameron County Drainage District 3	22
Cameron County Drainage District 5	1
CCID6	1
Donna	1
Edinburg	1
Elsa	2
Escobares	1
Harlingen	1
Kinney County	1
La Feria	1
La Grulla	1
La Joya	1
Los Fresnos	1
McAllen	8
Mission	1
Palmhurst	1
Palmview	1
Primera	1
Rio Grande City	6
San Benito	1
San Juan	1
South Padre Island	1
Webb County	4
Webb County Drainage District 1	7
Weslaco	23
Willacy County	1
Zapata County	1



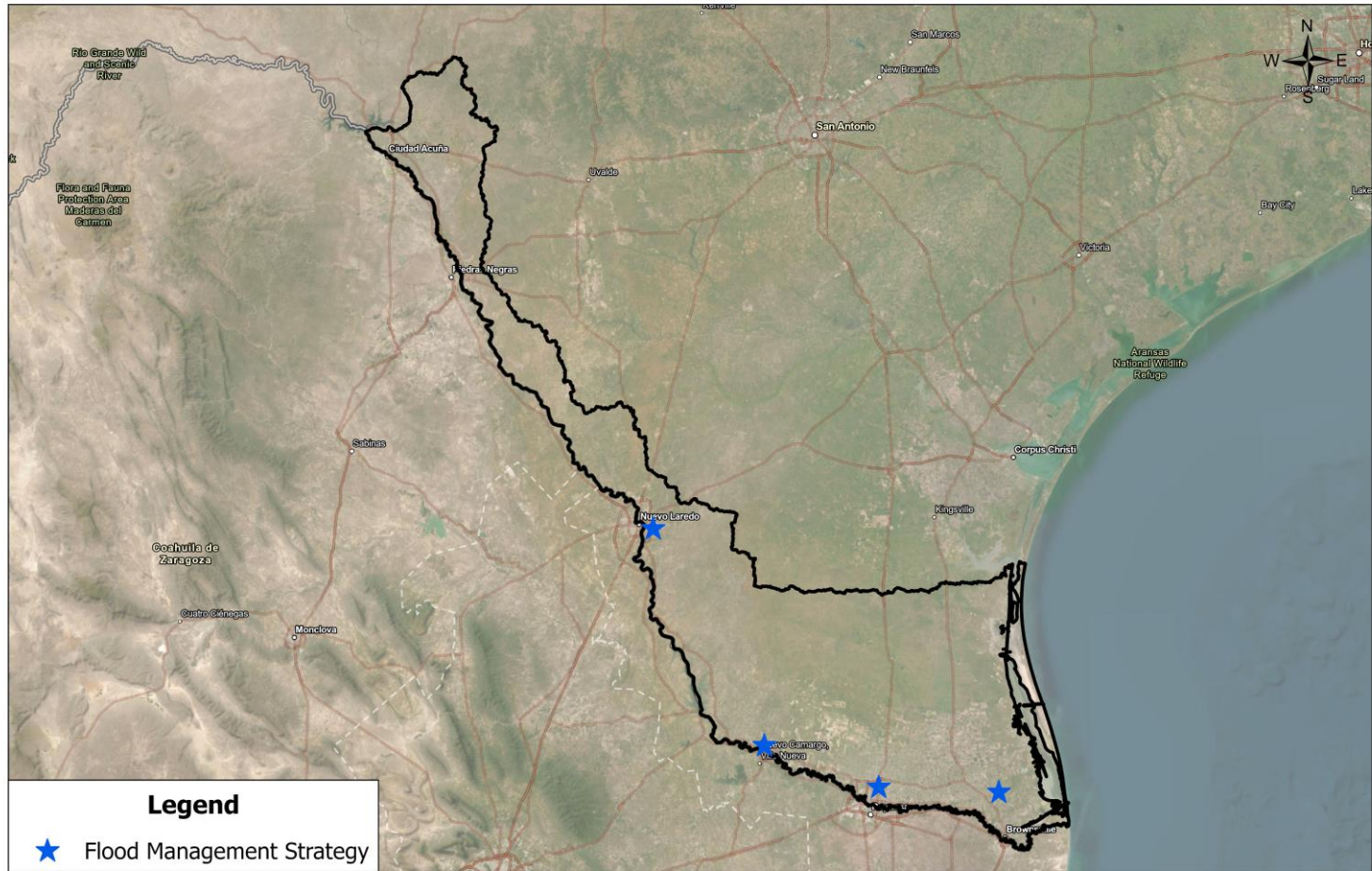
TASK 4A - FMPs RECEIVED FOR CONSIDERATION



Entity	Number of FMPs
Cameron County	2
Cameron County Drainage District 3	1
Cameron County Drainage District 5	2
Harlingen	39
Hidalgo County Drainage District 1	1
Hidalgo County Irrigation District 6	1
Laredo	7
Palm View	3
Santa Cruz Irrigation District 15	1



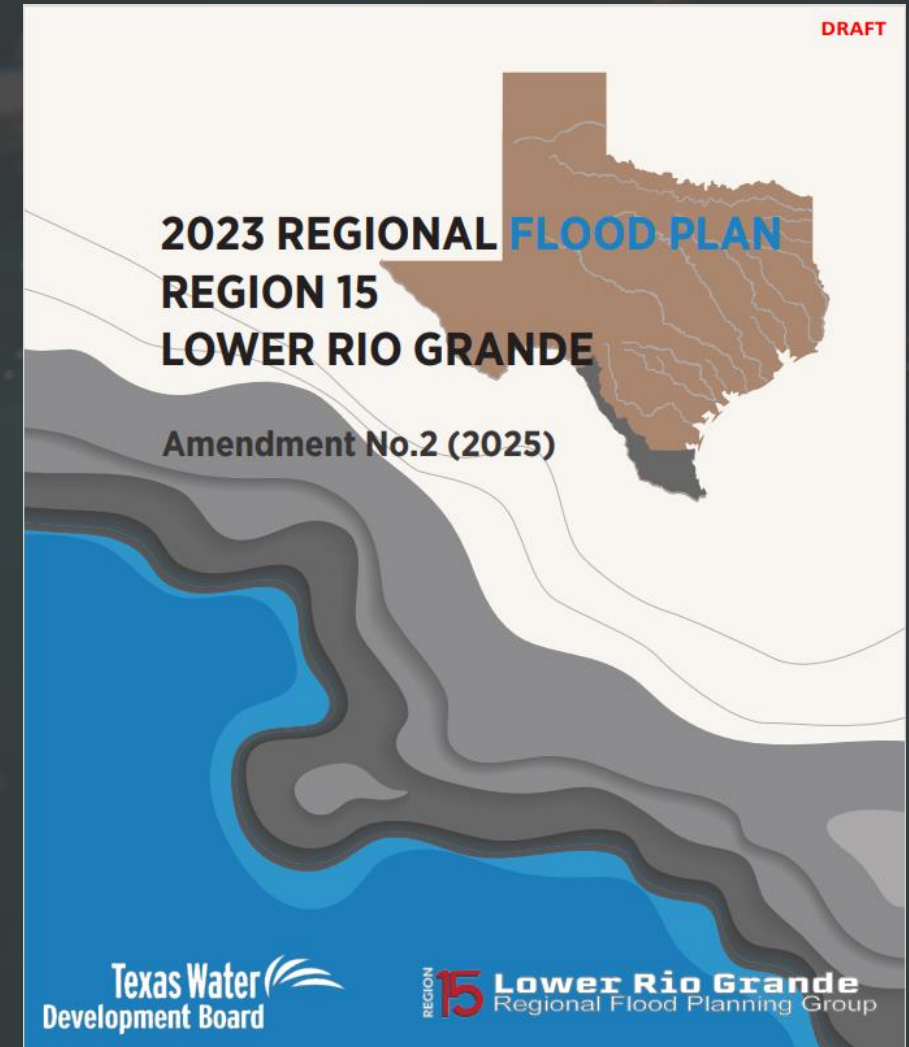
TASK 4A - FMSs RECEIVED FOR CONSIDERATION



Entity	Number of FMSs
Cameron County	2
Pharr	1
Rio Grande City	1
Webb County Drainage District 1	1

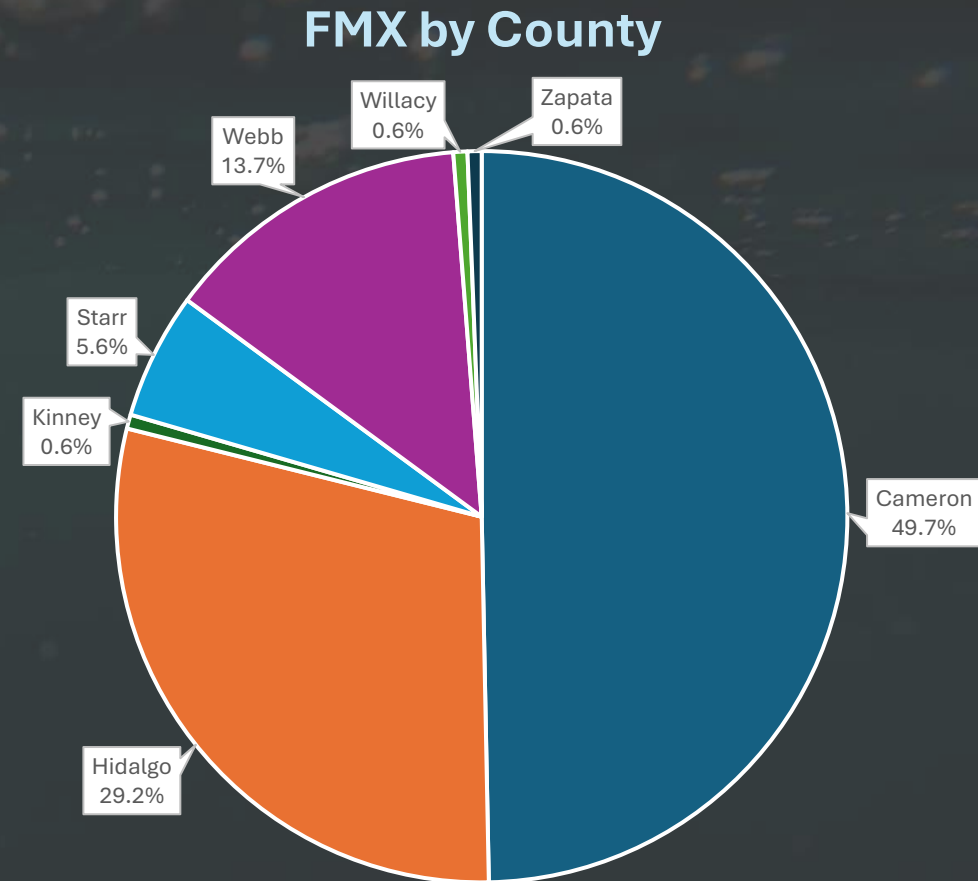
TASK 4A - 2024 REGION 15 FLOOD PLAN

FMX Type	# of FMXs in the <u>2023 RFP</u>	Associated Cost to Perform the FMXs
FME	406	\$227M
FMP	94	\$968M
FMS	86	\$151M
Total	586	\$1.4B



TASK 4A: IDENTIFICATION AND EVALUATION OF POTENTIAL FMXS

FMX Type	# of Potential FMXs Identified	Associated Cost to Perform FMX
FME	73	\$53.1M
FMP	83	\$1.7B
FMS	5	\$95.2M
Total	161	\$1.8B



TASK 4B: UPDATE ON SUBMITTAL OF TECHNICAL MEMORANDUM AND LOOK AHEAD

- Technical Memorandum due to TWDB by January 7, 2025
 - Must be reviewed and formally approved at RFPG meeting (December 10, 2025?)
 - Need to approve floodplain management goals – Committee is working on recommendations
- List of FMEs to be performed by TWDB due March 26, 2026