

Public Meeting Notice

Region 9 – Upper Colorado Regional Flood Planning Group

March 4, 2022

10:00 AM CST

Notice is hereby given of a regular meeting of the Region 9 – Upper Colorado Regional Flood Planning Group to be held March 4, 2022 at 10:00 AM at the McNease Convention Center – North Meeting Room, 501 Rio Concho Drive, San Angelo, Texas, for the purpose of considering the following agenda items. Masks and social distancing recommended for in-person meeting.

Phone participation is available for public and non-voting representatives by the conference call information below:

Call In: (325) 326-0870

Passcode / ID: 211 546 675#

The Meeting Agenda and the Agenda Packet are posted online at

<https://www.cosatx.us/departments-services/water-utilities/region-9-upper-colorado-flood-planning-region>

A recording of the meeting will be available to the public in accordance with the Open Meetings Act upon written request.

Members of the public may also submit Public Comment on agenda items by sending their written comments via email to allison.strube@cosatx.us or rfgp9.lance@gmail.com by noon March 3, 2022. The subject line must be in the following format: "Public Comment, [item number] – March 4, 2022." All emails must include your name and address. Please note all Public Comment emails relevant to posted agenda items received by the deadline will be published as part of the agenda packet prior to the meeting and are therefore public record.

Agenda:

1. Call to Order
2. Welcome
3. Public comments – limit 3 minutes per person
4. Approval of minutes from the previous meeting.
5. Texas Water Development Board Update
6. Sponsoring Agency Update from City of San Angelo
7. Consider nominating and electing RFPG Chair, Vice Chair, Secretary, two members-at-large to serve on the Executive Committee, as applicable, per group bylaws
8. Consultant Presentation by HDR Engineering, Inc. for discussion, recommendation, and/or approval on the following items:
 - a. Task 4C Prepare and Submit Technical Memorandum, March 7, 2022, Deliverable to TWDB
9. Consultant Presentation by HDR Engineering, Inc for discussion of Regional Flood Plan development updates, schedule, and next steps
10. Public comments – limit 3 minutes per person
11. Consider date and agenda items for next meeting
12. Adjourn

Additional information may be obtained from:

Allison Strube

allison.strube@cosatx.us

301 W. Beauregard Ave.,
San Angelo, TX 76903

Public Meeting Notice

Region 9 – Upper Colorado Regional Flood Planning Group

December 16, 2021

10:00 AM CST

Meeting held In person at McNease Convention Center – North Meeting Room, 501 Rio Concho Drive, San Angelo, Texas. Additionally, participation was available via conference call at (325) 326-0870.

Roll Call:

<u>Voting Member</u>	<u>Interest Category</u>	<u>Present (x) / Absent () / Alternate Present (*)</u>
Kenneth Dierschke	<i>Agricultural interests</i>	X
Rick Bacon	<i>Counties</i>	X
Henryk Alexander Olstowski	<i>Electric generating utilities</i>	
Shannon McMillan	<i>Environmental interests</i>	X
Vacant	<i>Flood districts</i>	n/a
Morse Haynes	<i>Industries</i>	
Lance Overstreet	<i>Municipalities</i>	X
David H. Loyd Jr.	<i>Public</i>	X
Scott McWilliams	<i>River authorities</i>	X
Chuck Brown	<i>Small business</i>	X
Cole D. Walker	<i>Water districts</i>	
Allison Strube	<i>Water utilities</i>	X

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent() / Alternate Present (*)</u>
John McEachern	Texas Parks and Wildlife Department	X-Virtual
Tim Frere	Texas Division of Emergency Management	
Larissa Place	TDA	
Ben Wilde	Texas State Soil and Water Conservation Board	X-Virtual
Jet Hays	General Land Office	
Tressa Olsen	Texas Water Development Board (TWDB)	X-Virtual
Winona Henry	Texas Commission on Environmental Quality	X-Virtual
Anna Yakimovicz	Region 10 Liaison	

Others Present:

Curtis Beitel – HDR (Consultant): In-Person
Heather Keister – Freese & Nichols (Consultant)
Scott Rushing – HALFF (Consultant)
David Dunn – HDR (Consultant)

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: 8

Number required for quorum per current voting positions of 12: 7

Meeting agendas, packets, information and recordings are available at the link

<https://www.cosatx.us/departments-services/water-utilities/region-9-upper-colorado-flood-planning-region>

- **AGENDA ITEM NO. 1: Call to Order**

Chair Strube called the meeting to order at 10:05 AM CST. A roll call of the planning group members was taken to record attendance, and a quorum was established prior to proceeding with the agenda.

- **AGENDA ITEM NO. 2: Welcome, Meeting Facilitation Information and Instructions**

- **AGENDA ITEM NO. 3: Public Comments**

No Public Comments were made during this item.

- **AGENDA ITEM NO. 4: Approval of minutes from previous meeting.**

Motion by Commissioner Kenneth Dierschke and seconded by David Lloyd. Motion passed unanimously.

- **AGENDA ITEM NO. 5: TWDB Update**

Tressa Olsen with TWDB updated the group on the recent Chair's call that was conducted by all the regions. Chair Allison Strube was unable to attend that meeting.

- **AGENDA ITEM NO. 6: Sponsor agency update from the City of San Angelo Provided by chair Allison Strube**

Chair Strube discussed that there were no major updates.

- **AGENDA ITEM NO. 7: Consultant Presentation by HDR Engineering, Inc. for update on 4A Flood Mitigation Needs Analysis**

Curtis Beitel went through the presentations provided in the background material and discussed lack of overall response to outreach impacts, the flood risk list, and possible projects. Total scoring showing about 14 HUCs in the top end of the list.

- **AGENDA ITEM NO. 8: Consultant Presentation by HDR Engineering, Inc. for discussion, recommendation, and/or approval on the following items: (a) Task 4B Identification and evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Management Strategies and Flood Mitigation Projects; (b) Task 4C Prepare and Submit Technical Memorandum**

Curtis Beitel went through the presentation provided in the background material.

Discussion was made by the group on minor updates and housekeeping on the format and minor details of the technical memo, but a motion was made by Scott McWilliams to submit the document with the edits as discussed and seconded by Chuck Brown. Motion passed unanimously.

- **AGENDA ITEM NO. 9: Public Comments – Limit 3 minutes per person**

No Public Comments were made during this item.

- **AGENDA ITEM NO. 10: Consider Date and Agenda Items for Next Meeting**

It was discuss there would be no meeting in January and a tentative meeting for the 2nd or 3rd Thursday of February was discussed.

- **AGENDA ITEM NO. 11: Adjourn**

Motion by Commissioner Rick Bacon and seconded by Shannon McMillan. Motion passed unanimously. Meeting was adjourned at 11:28 AM CST.

Approved by the Region 9 Upper Colorado RFPG at a meeting held on March 4, 2022.

Lance Overstreet, SECRETARY

Allison Strube, CHAIR



Upper Colorado Regional Flood Plan

Technical Memorandum Supplement
GIS Deliverable, March 7, 2022

   Susan Roth
Consulting

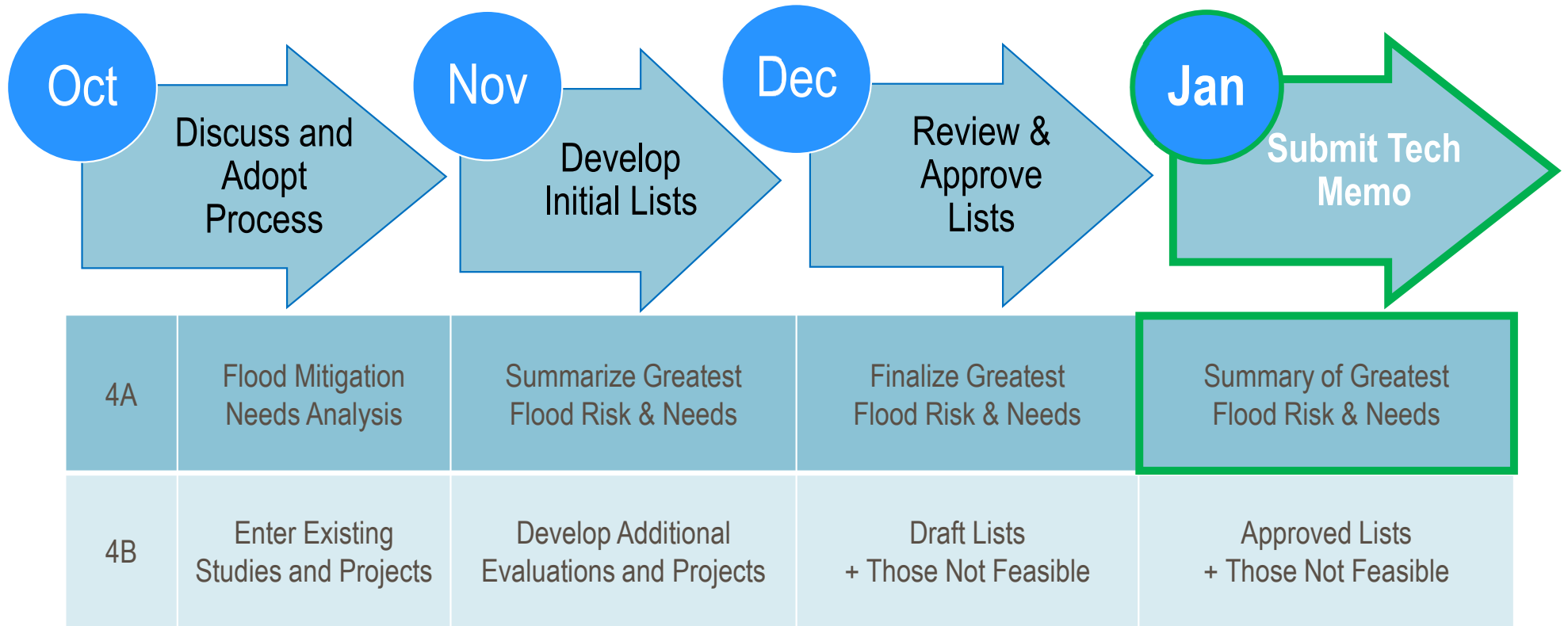


March 4, 2022

Task 4 Background

- Task 4A – Flood Mitigation Needs Analysis
- Task 4B – Identification and Evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Management Strategies and Flood Mitigation Project
- Task 4C – Prepare and Submit Technical Memorandum

Task 4A/4B ✓



Technical Memorandum Submissions to TWDB

- January 7, 2022
 - Included needs analysis, identification of FMSs, FMPs, FMEs
- March 7, 2022
 - TM Supplement - GIS deliverable

Texas Water Development Board

HDR

Technical Memorandum
2023 Regional Flood Plan –
Flood Planning Region 9 –
Upper Colorado

Texas Water Development Board
January 7, 2022

DRAFT - NOT FOR
CONSTRUCTION

Prepared under the supervision of:
Curtis Beitel, P.E., CFM
Texas P.E. No. 83213

Texas PE Firm Registration
Number: F-754
HDR Engineering, Inc.

HDR Engineering, Inc.
Texas PE Firm Registration No. F-754

GIS Deliverable - Geodatabase

- Geodatabase Deliverable follows TWDB's Exhibit D: Data Submittal Guidelines for Regional Flood Planning

Example required fields, feature class

3.6 Future Condition Flood Risk Analysis

3.6.1 Future Condition Flood Hazard [FutFldHazard]

Description: Perform future condition flood hazard analyses to determine the location and magnitude of both 1.0% annual chance and 0.2% annual chance floods. This task also includes identification of flood prone areas. These areas can be identified in the 'Annual Probability' field with a value of 'Unknown'.

Table 15: List of Fields for 'FutFldHazard'

Item	Required ?	Field Name	Data Type	Guidance	Valid Entries
Future Hazard	Y	FUTHAZ_ID	Text	Must be unique for each feature	
RFPG	Y	RFPG_NUM	Short (2)	RFPG number	
	Y	RFPG_NAME	Text		
County	Y	COUNTY	Text	County name, without "County" (e.g. "Harris", not "Harris County"). For hazard and exposure feature classes, COUNTY must be singular.	
HUC8s	Y	HUC8	Text	NHD HUC8 numbers, comma-separated	
HUC10s	N	HUC10	Text	NHD HUC10 numbers, comma-separated	
HUC12s	N	HUC12	Text	NHD HUC12 numbers, comma-separated. May be left blank if too many for field length.	
Watersheds	N	WS_ID	Text	WS_IDs from Watershed feature, comma-separated. May be left blank if too many for field length.	

GIS Deliverable - Maps

Maps as numbered in TWDB Exhibit C – Technical Guidelines

Map 4: Existing Condition Flood Hazard

Map 5: Existing Condition Flood Hazard – Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas

Map 6: Existing Condition Flood Exposure

Map 7: Existing Condition Vulnerability and Critical Infrastructure

Map 8: Future Condition Flood Hazard

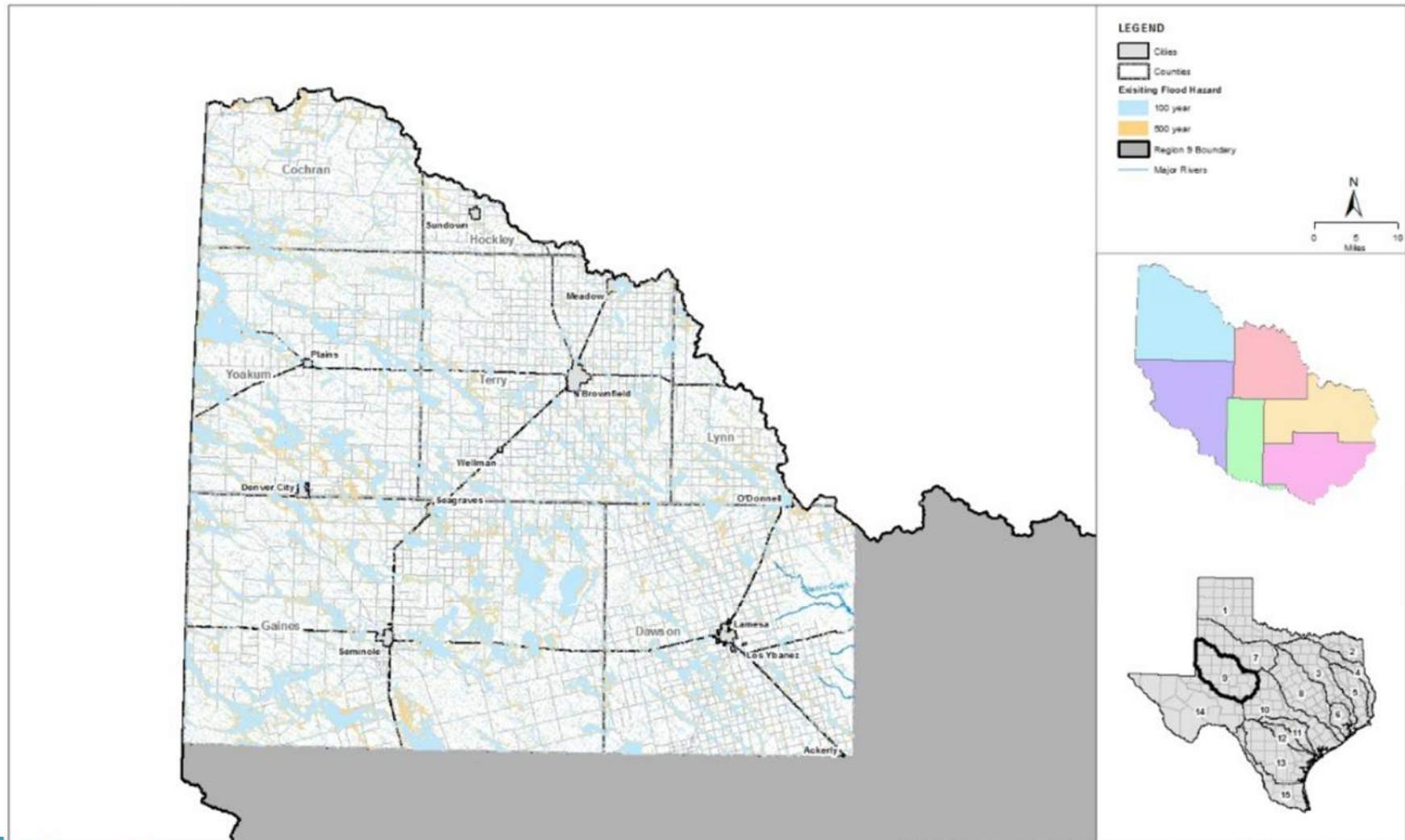
Map 9: Future Condition Flood Hazard - Gaps in Inundation Boundary Mapping and Identify known Flood Prone Areas

Map 10: Extent of Increase of Flood Hazard Compared to Existing Condition

Map 11: Future Condition Flood Exposure

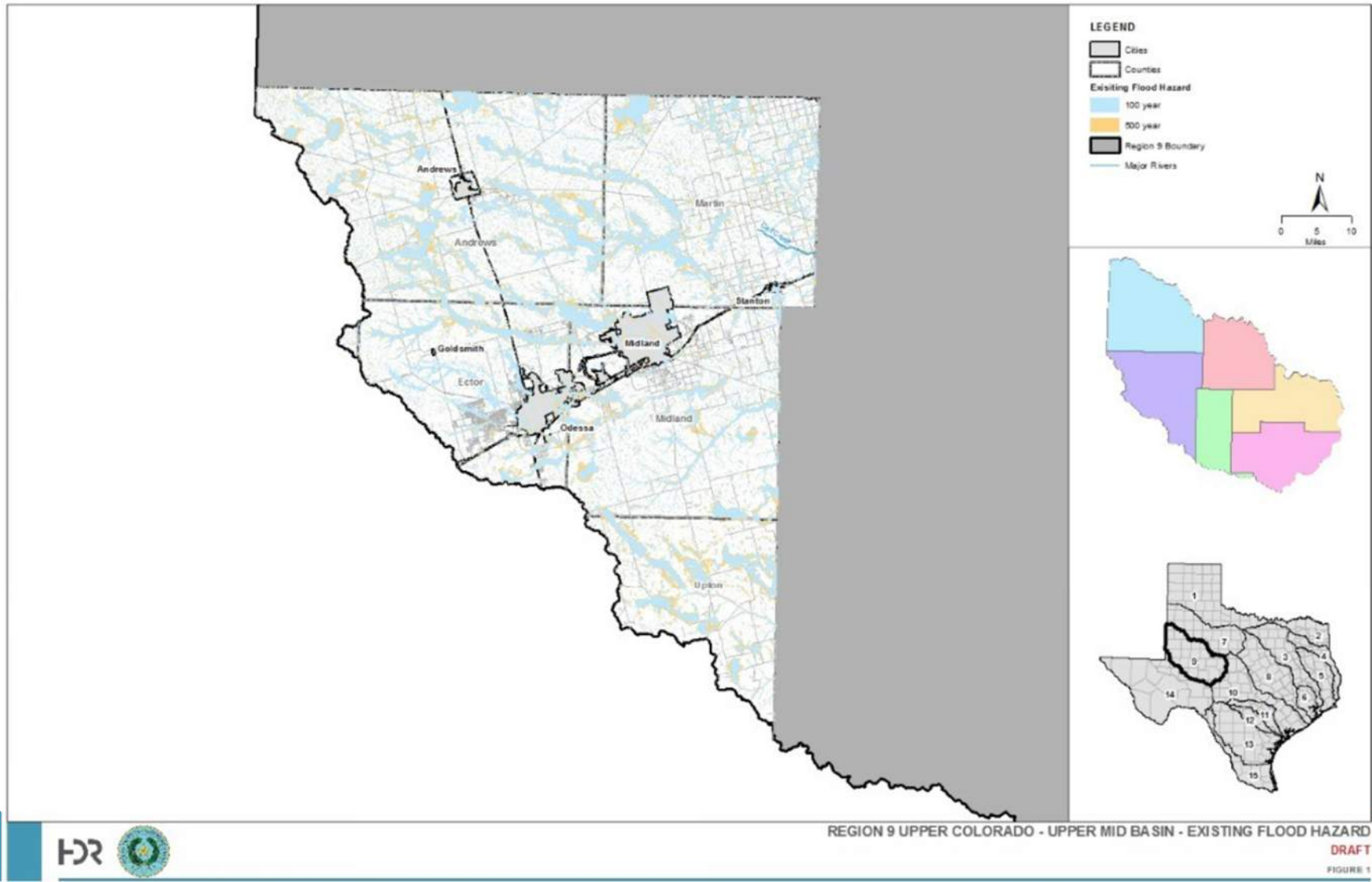
Map 12: Future Condition Vulnerability and Critical Infrastructure

Map 4. Existing Condition Flood Hazard

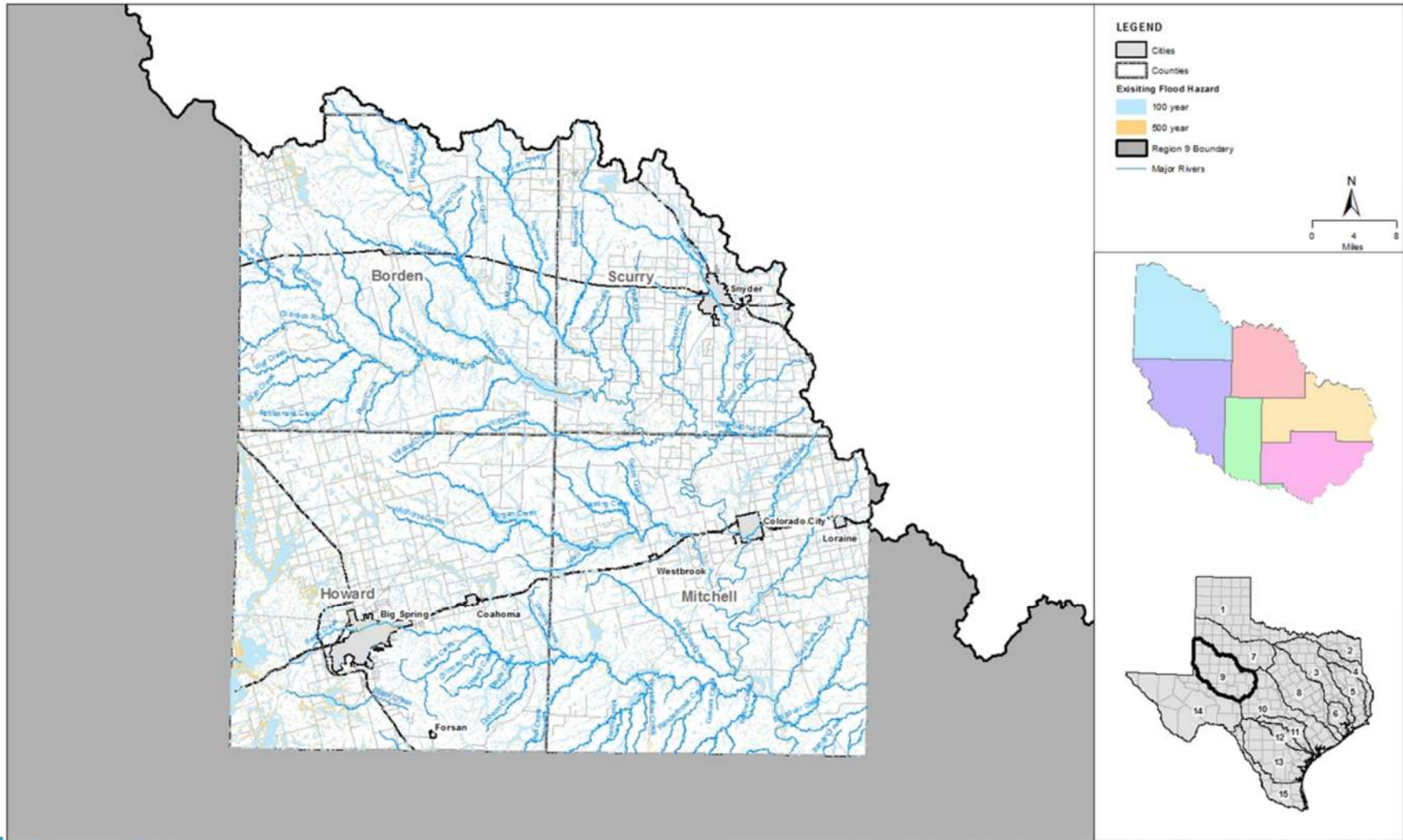


REGION 9 UPPER COLORADO - UPPER BASIN - EXISTING FLOOD HAZARD
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FIGURE 1

Map 4. Existing Condition Flood Hazard



Map 4. Existing Condition Flood Hazard

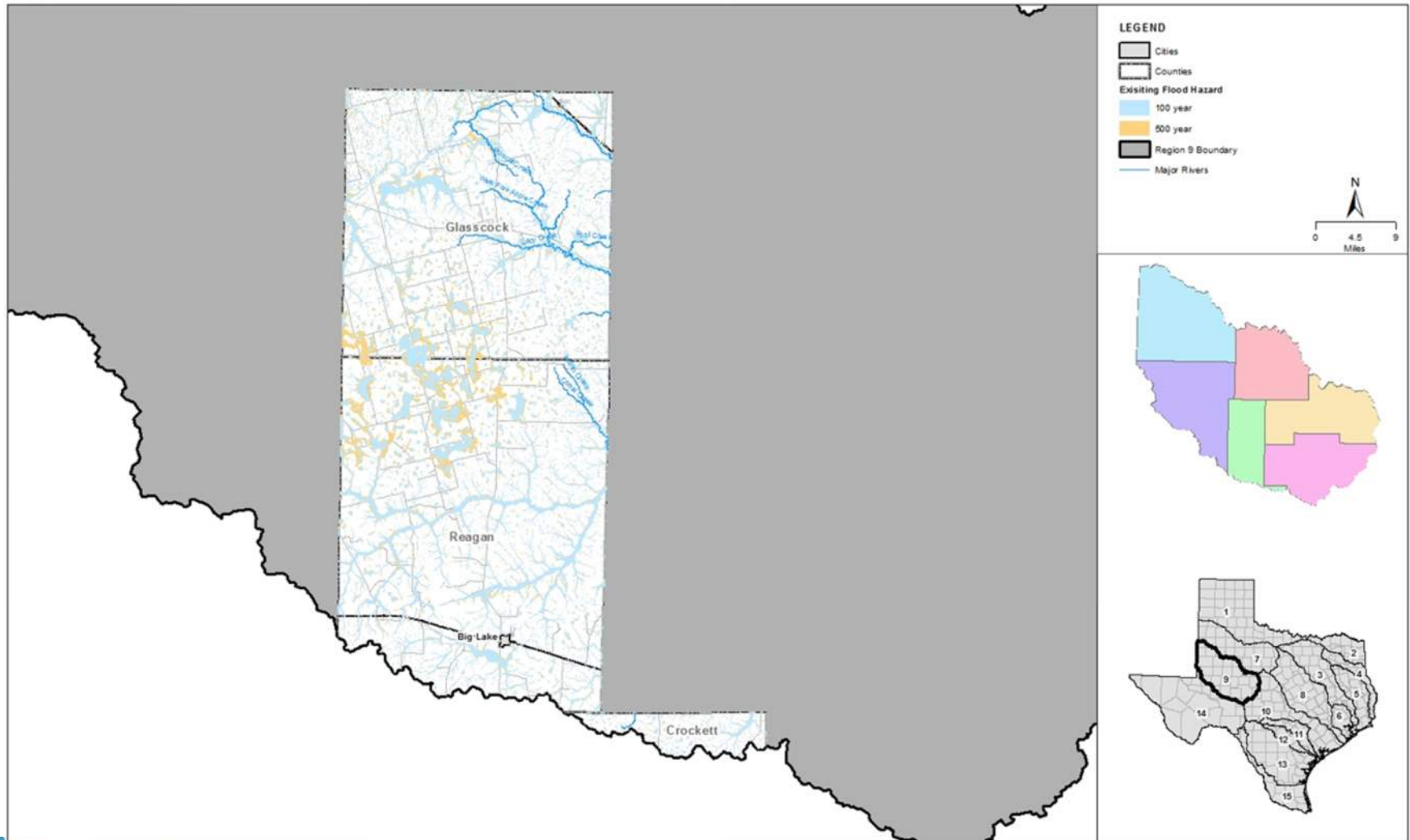


REGION 9 UPPER COLORADO - MID UPPER BASIN - EXISTING FLOOD HAZARD

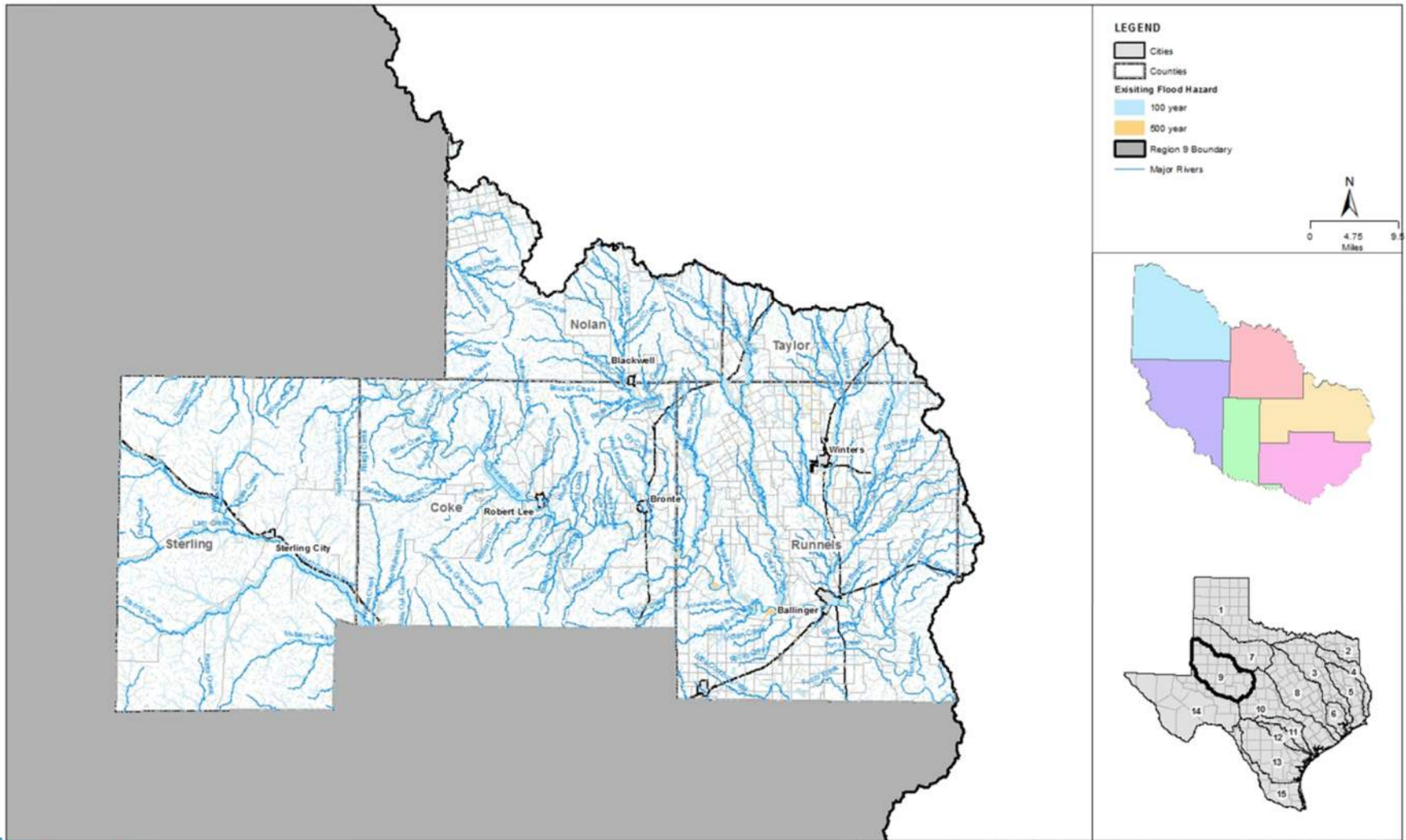


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FIGURE 1

Map 4. Existing Condition Flood Hazard



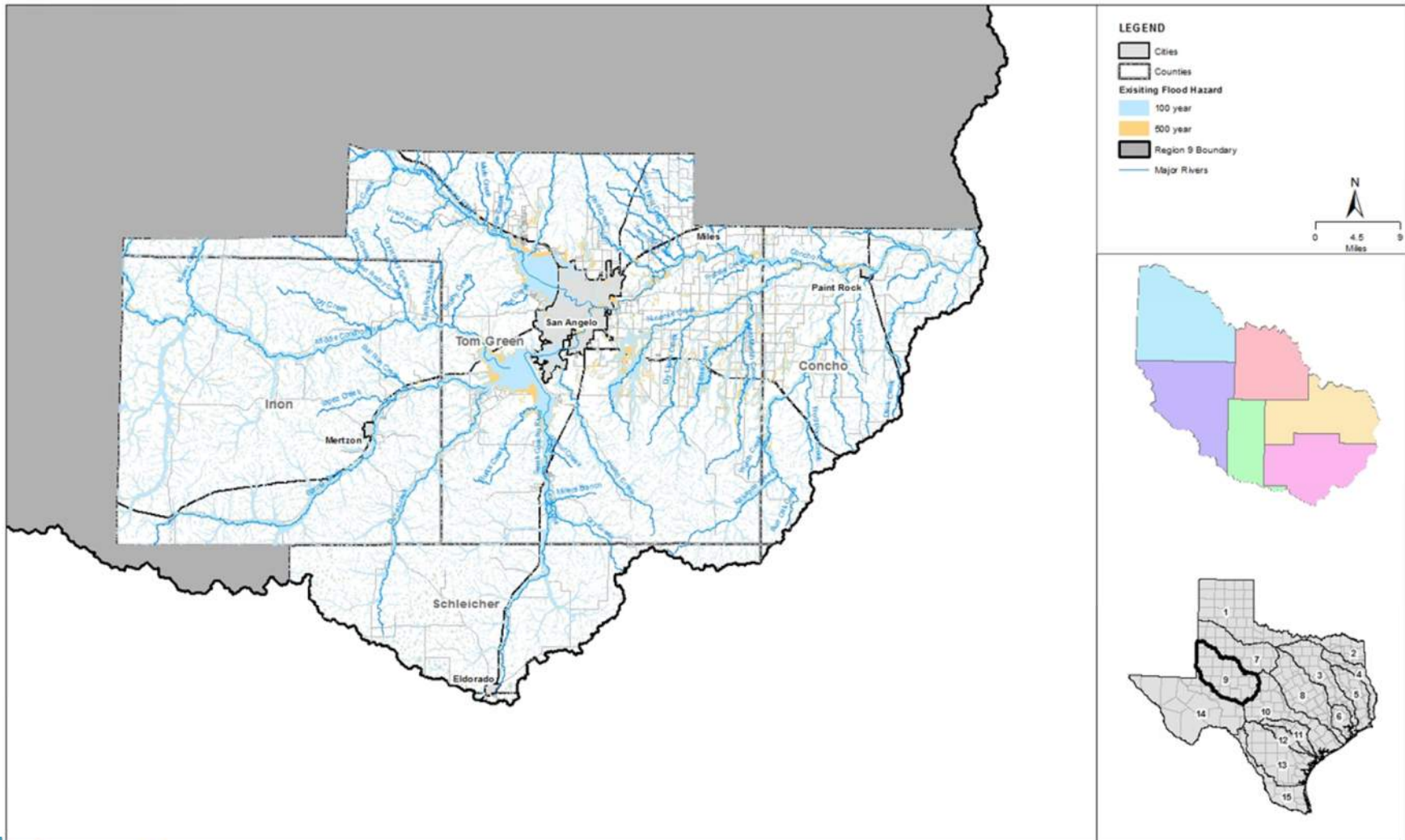
Map 4. Existing Condition Flood Hazard



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FIGURE 1

Map 4. Existing Condition Flood Hazard



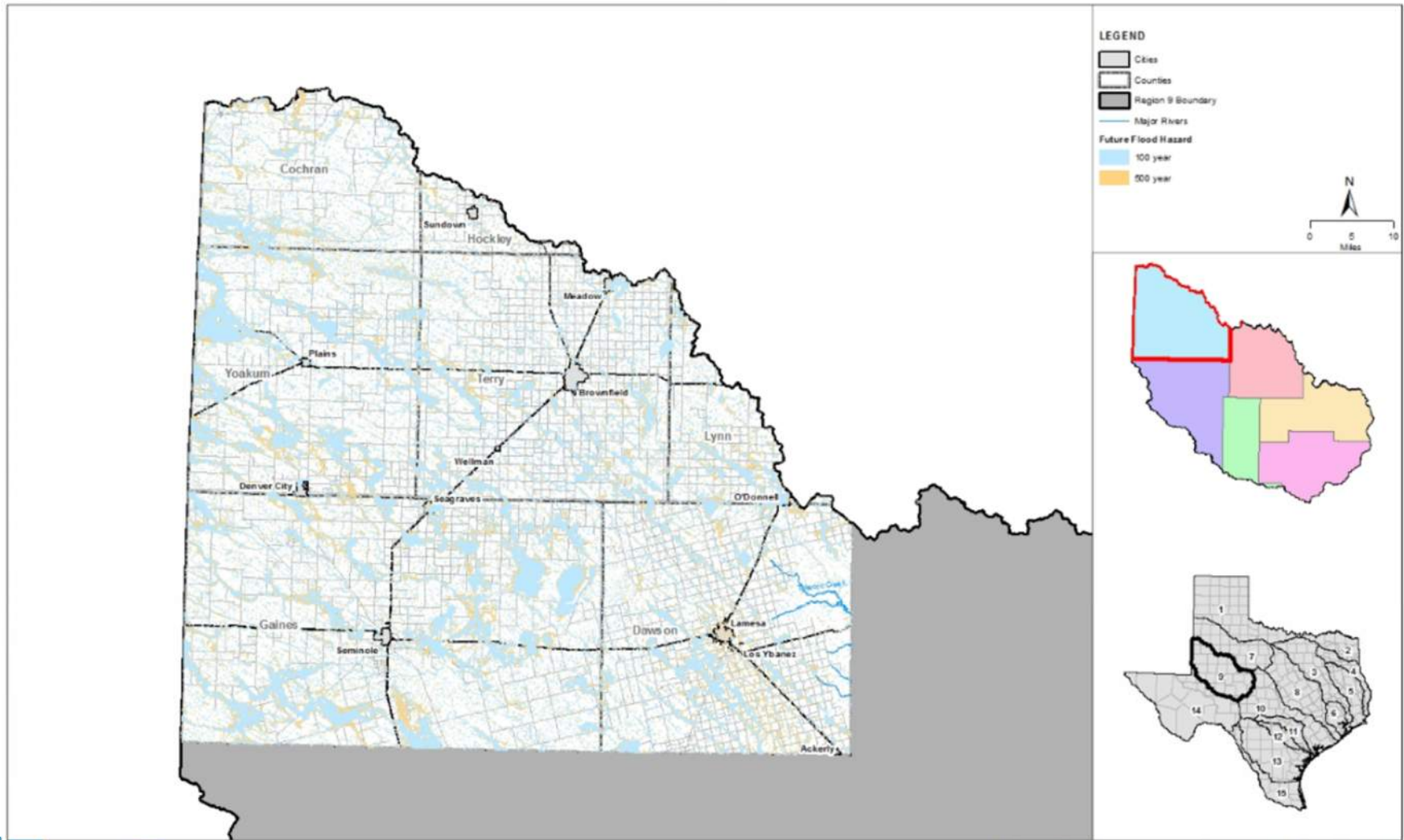
REGION 9 UPPER COLORADO - LOWER BASIN - EXISTING FLOOD HAZARD

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FIGURE 1



Map 8. Future Condition Flood Hazard



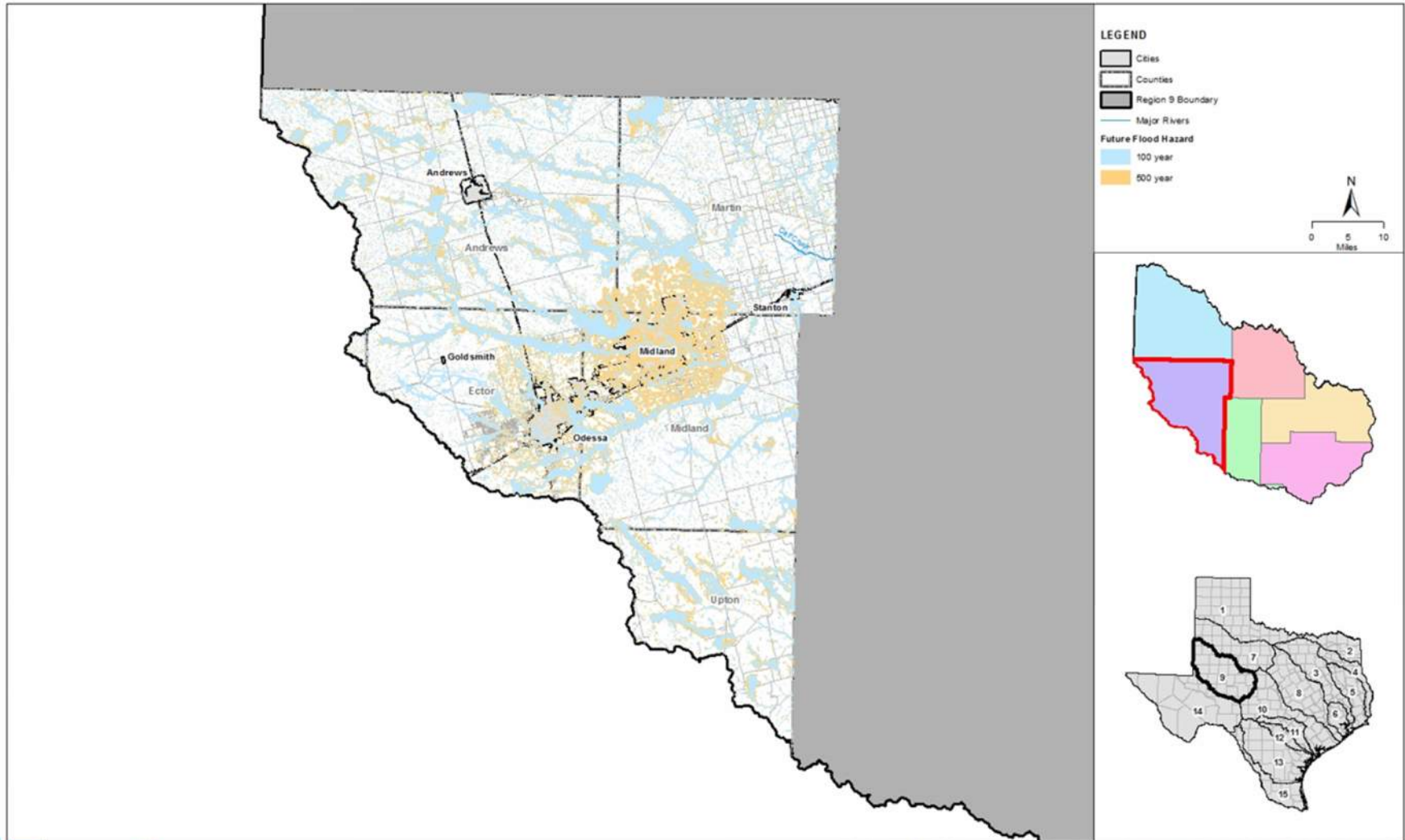
REGION 9 UPPER COLORADO - UPPER BASIN - EXISTING FLOOD HAZARD

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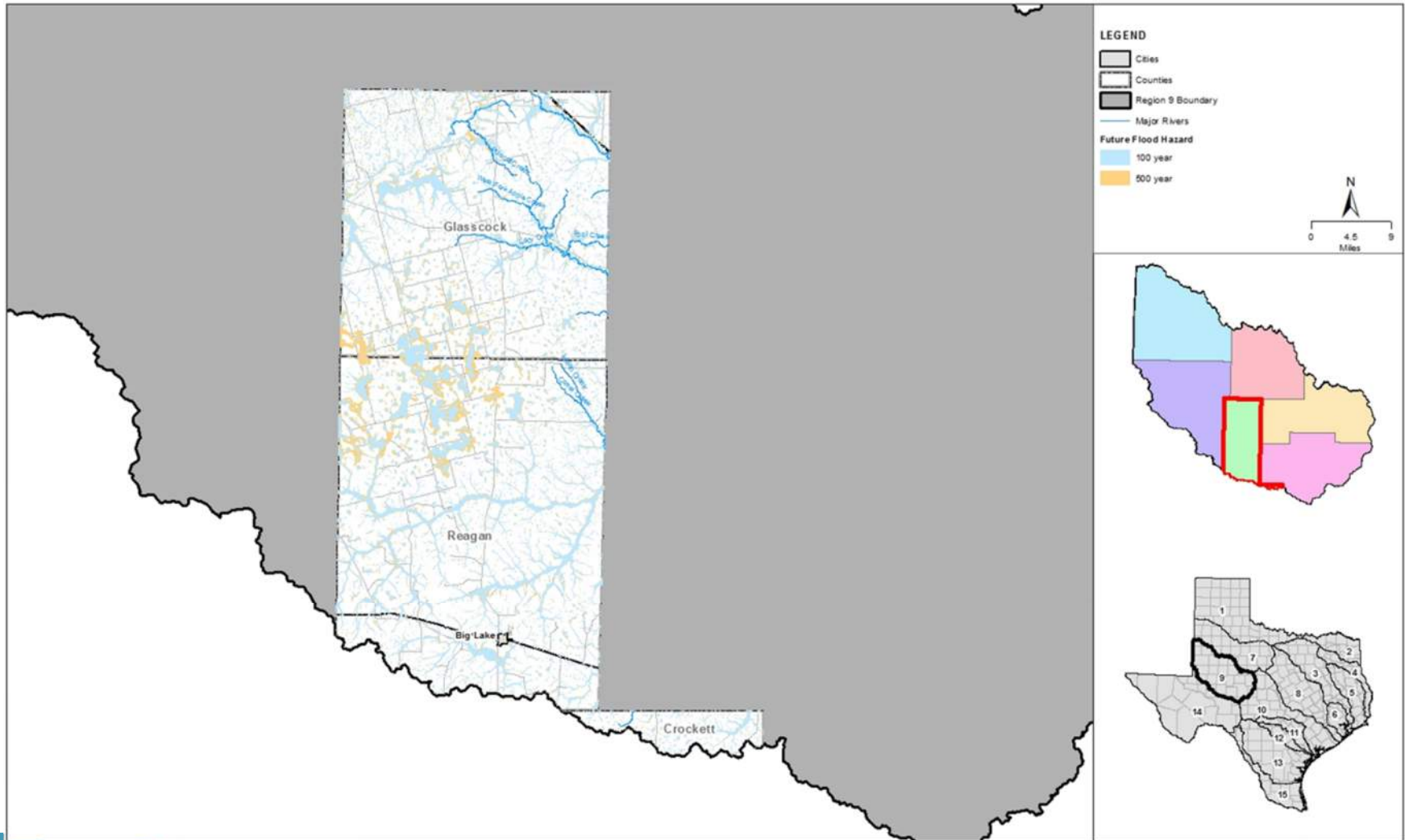
FIGURE 1



Map 8. Future Condition Flood Hazard



Map 8. Future Condition Flood Hazard

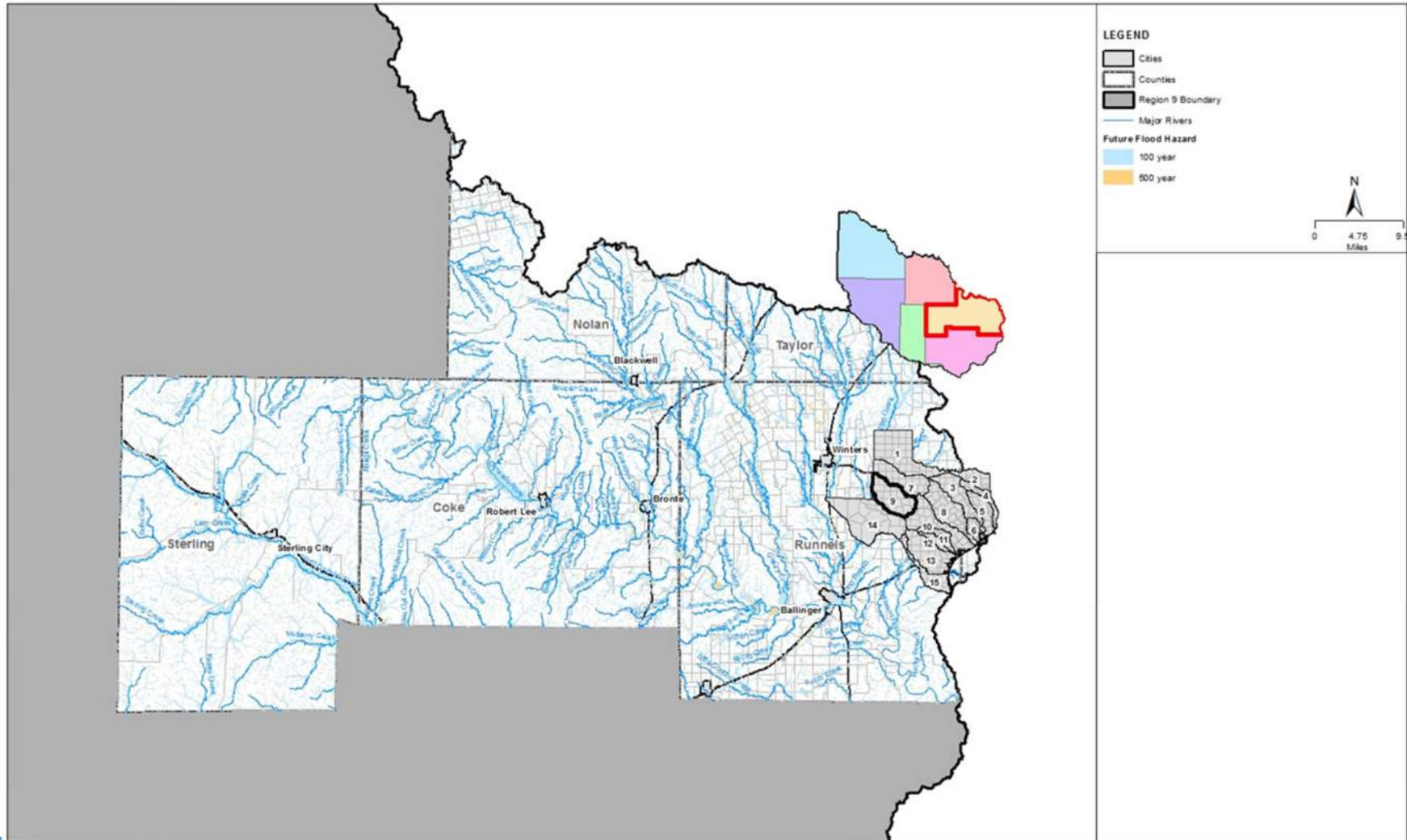


REGION 9 UPPER COLORADO - MID LOWER BASIN - EXISTING FLOOD HAZARD

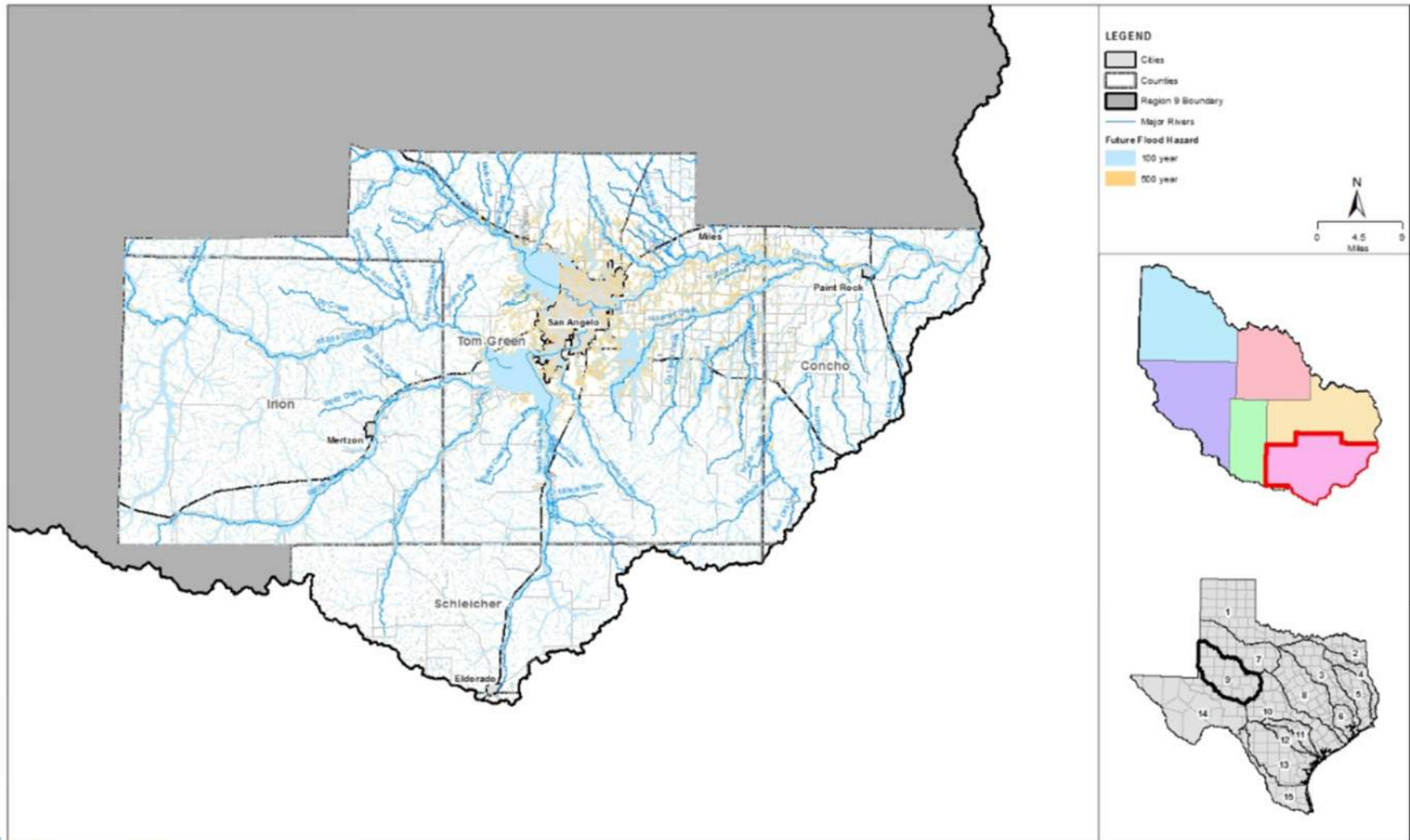
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FIGURE 1

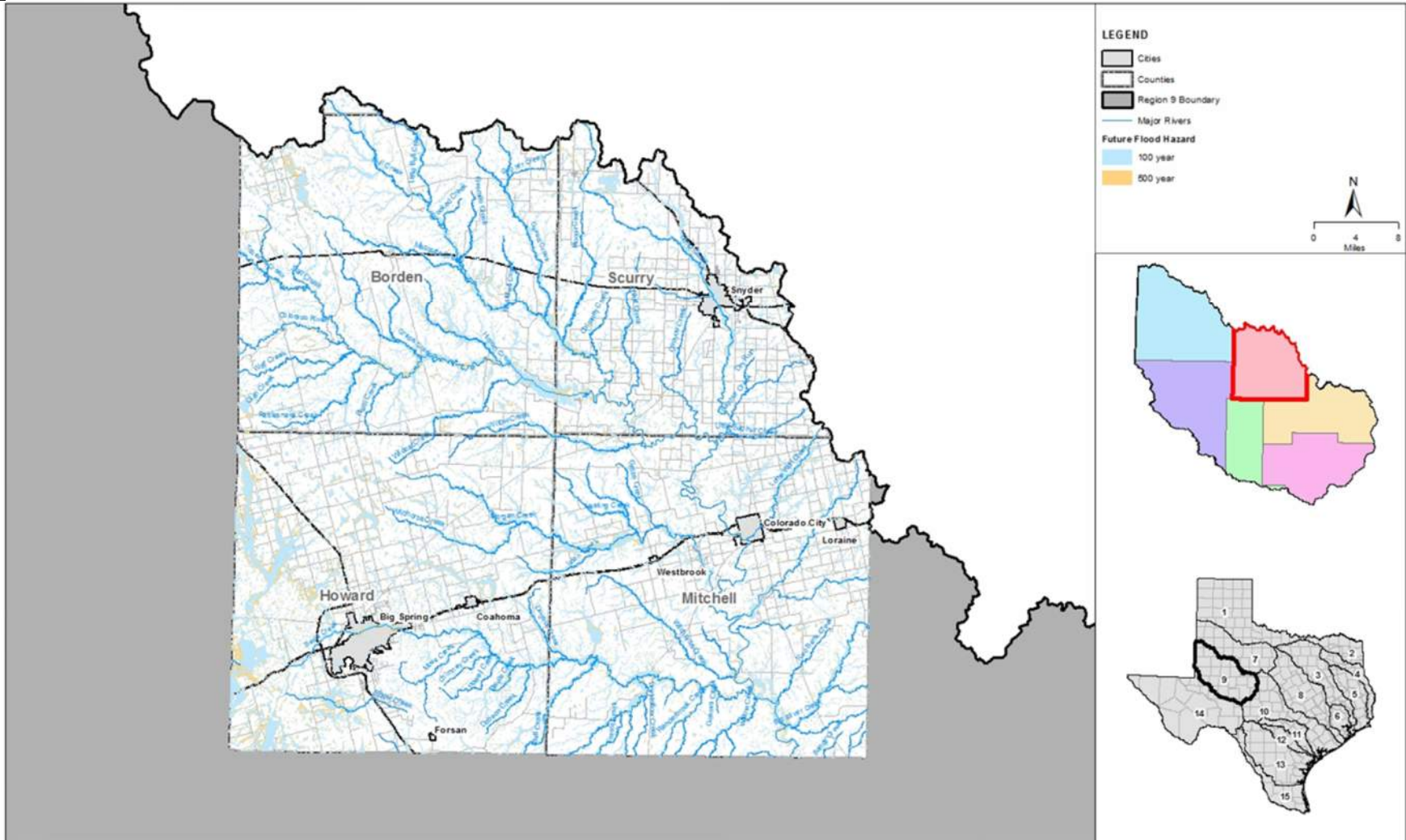
Map 8. Future Condition Flood Hazard



Map 8. Future Condition Flood Hazard



Map 8. Future Condition Flood Hazard



REGION 9 UPPER COLORADO - MID UPPER BASIN - EXISTING FLOOD HAZARD

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FIGURE 1



Suggested Planning Group Action

- Consider approval of Interim Technical Memorandum Supplement Deliverable.
- “Direct consultant team to submit Interim Technical Memorandum Supplement Deliverable to TWDB staff by deadline of March 7, 2022.”



Upper Colorado Regional Flood Plan

Regional Flood Plan Development Schedule and Next Steps

HR **FRESE AND NICHOLS** **HALFF** Susan Roth Consulting



March 4, 2022



01

First Planning Cycle Schedule

Planning Updates

- January 7, 2022: Technical Memorandum submitted to TWDB
- January 26, 2022: Notice to Proceed - Regional Flood Planning Grant Contract with City of San Angelo

Texas Water Development Board

HDR

Technical Memorandum
2023 Regional Flood Plan –
Flood Planning Region 9 –
Upper Colorado

Texas Water Development Board
January 7, 2022

DRAFT - NOT FOR
CONSTRUCTION

Prepared under the supervision of:
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Flood Plan Development Schedule

Timeframe	TWDB Flood Plan Scope of Work Tasks/Actions
January 26, 2022	Task 5 Notice to Proceed
March 7, 2022	Technical Memo GIS Submitted to TWDB
March	Task 10 Public Participation and Plan Adoption - Will be ongoing throughout RFP development Task 4 Needs Analysis and Refined FME, FMP, FMS List Task 5 Recommendations
April	Task 5 Recommendations Task 7 Flood Response
May	Task 5 Recommendations Task 8 Administrative, Regulatory, and Legislative Recommendations Task 9 Flood Infrastructure Financing Analysis
June	Tasks 6a, 6b Impacts of the Regional Flood Plan & Impacts to Water Plan Task 12 Identify FMEs to complete
July	Discuss Draft Flood Plan Refinements
August 1, 2022	August 1, 2022, Draft Flood Plan Submitted to TWDB

Next Steps

- Begin Task 5. Recommendation of Flood Management Evaluations and Flood Management Strategies and Associated Flood Mitigation Projects
- Stakeholder Outreach
- Continue Regional Flood Plan development
 - Draft Chapters to be provided to Planning Group
 - Planning group
 - Provide comments via email
 - Discussion items to planning group meeting
- Chapter 1 – Planning Area Description



02

Stakeholder Outreach

Stakeholder Meetings

- Developing Draft Agenda
- Comments?

- 1) Introductions
- 2) Overview of State Flood Plan
 - a) Region 9 Goals
- 3) Benefits of Participation in Regional Flood Plan
 - a) Financing through the TWDB's Flood Infrastructure Fund
- 4) Existing Floodplain Management Practices

FEMA CID	481192
Floodplain Management Regulations (Yes/ No/ Unknown)	No
Adopted Minimum Regulations pursuant to TWC Section 16.3145? (Yes/ No)	No
NFIP Participant (Yes/ No)	No
Higher Standards Adopted (Yes/ No)	No
Floodplain Management Practices (Strong/Moderate/Low/None)	None
Level of enforcement of practices (High/ Moderate/ Low/ None)	None
Existing Stormwater or Drainage Fee (Yes/No)	No

- 5) Summary of Flood Risk
 - a) Current Effective FEMA Flood Insurance Rate Map
 - b) Additional Floodplain Sources (Fathom)
 - c) Summary of Structures At Risk
 - d) Historic flooding experiences

Stakeholder Meetings *(continued)*

Excerpt of municipality stakeholder information

Region 9 - Upper Colorado Regional Flood Plan									
Table 6 - Existing Floodplain Management Practices									
FEMA CID ¹	Entity ¹		Floodplain management regulations (Yes/No/ Unknown) ¹	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/No) ¹	NFIP Participant (Yes/ No) ¹	Higher Standards Adopted (Yes/No) ²	Floodplain Management Practices (Strong/Moderate /Low/None) ²	Level of enforcement of practices (High/ Moderate/ Low/ None) ²	Existing Stormwater or Drainage Fee (Yes/No) ²
480477	City of Midland	Midland	Unknown	Yes	Yes	No	Moderate	Moderate	Yes
480992	City of Miles	Miles	Unknown	Yes	Yes	No	Low	Low	No
480206	City of Odessa	Odessa	Yes	Yes	Yes	No	Moderate	Moderate	Yes
480921	City of O'Donnell	O'Donnell	No	No	No	No	None	None	No
480683	City of Plains	Plains	Yes	Yes	Yes	No	Low	Low	No
480749	City of Robert Lee	Robert Lee	Yes	Yes	Yes	No	Low	Low	No
480623	City of San Angelo	San Angelo	Yes	Yes	Yes	No	Moderate	Moderate	Yes
480239	City of Seagraves	Seagraves	Unknown	Yes	Yes	No	Low	Low	No
480240	City of Seminole	Seminole	Unknown	Yes	Yes	No	Low	Low	No
481001	City of Snyder	Snyder	Yes	Yes	Yes	No	Low	Low	No

- Planning Group members will be invited to join meetings virtually
- Comments / Questions?

Questions

