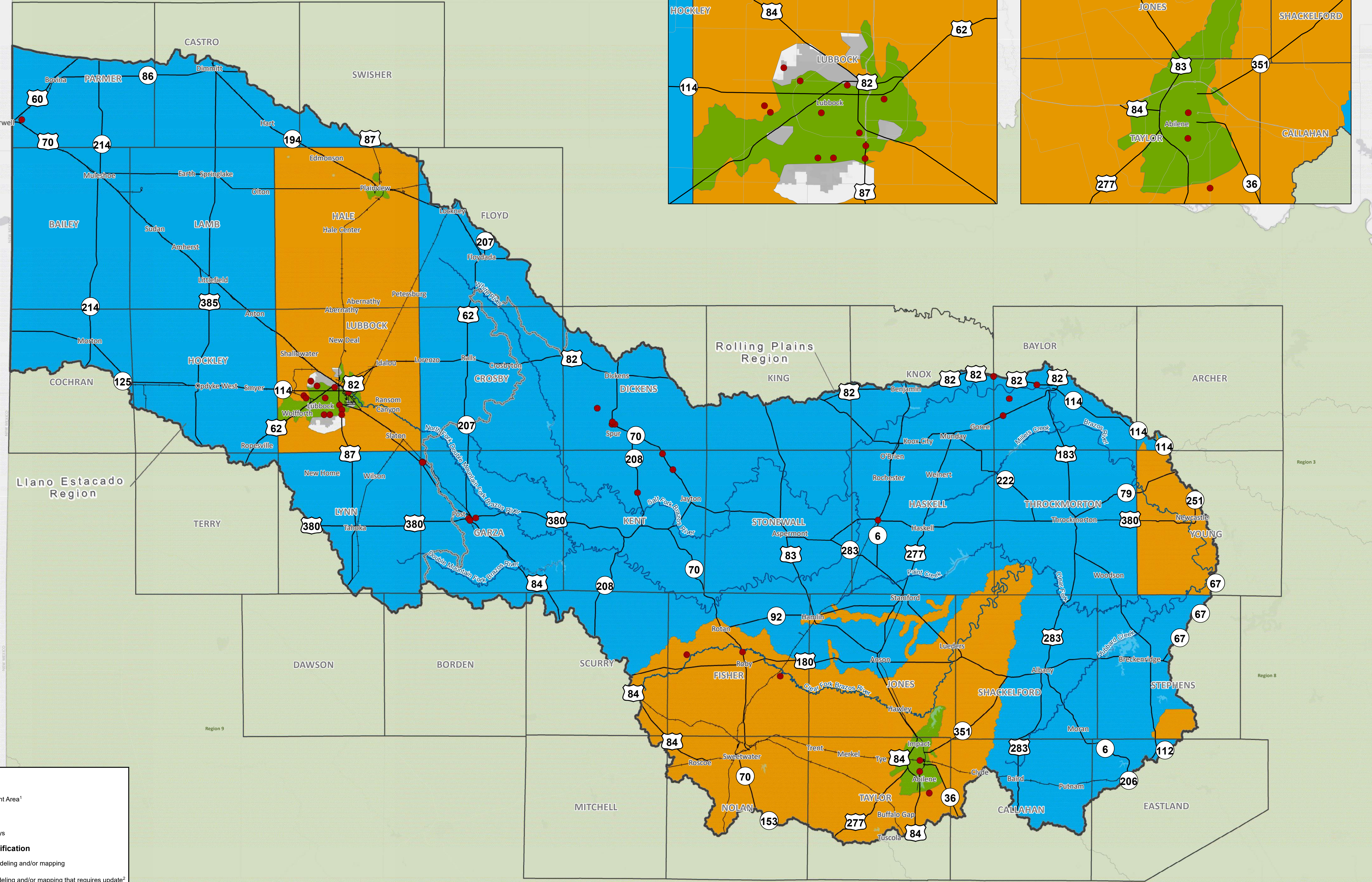


0 3 6 12 Miles



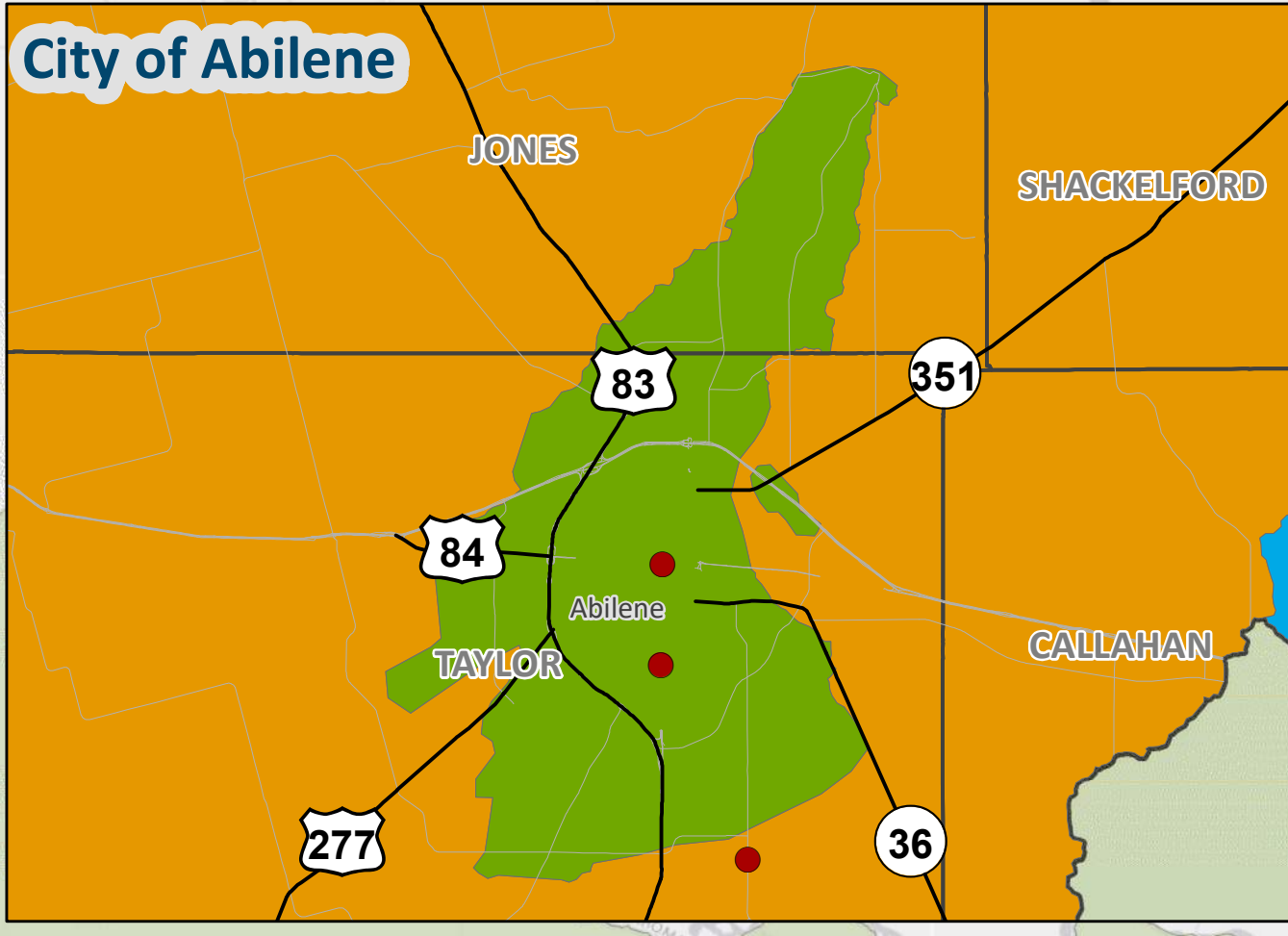
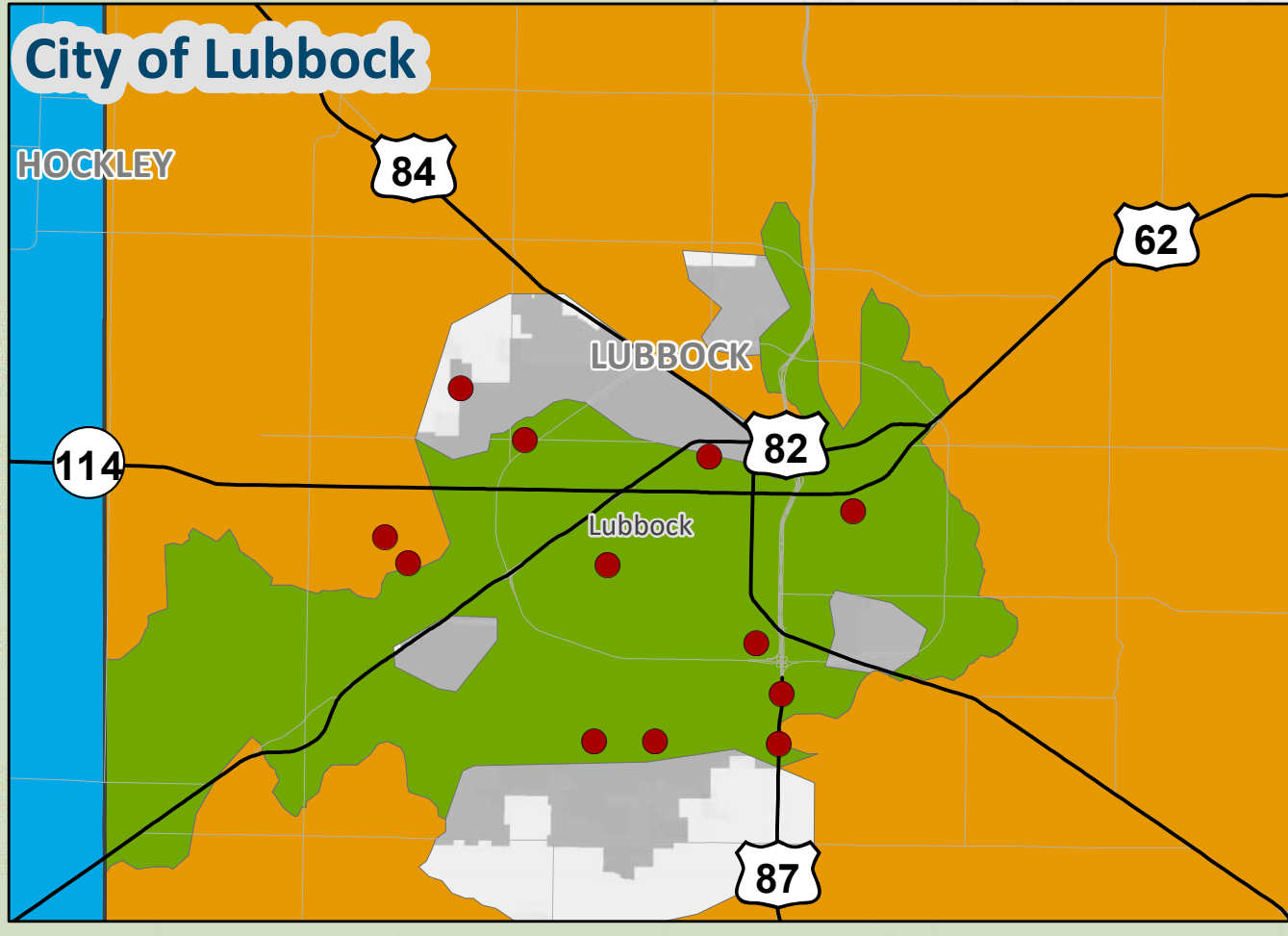
Legend

- Public Comment Area¹
- Major Rivers
- Major Roadways

Mapping Gap Classification

- Absence of modeling and/or mapping
- Areas with modeling and/or mapping that requires update²
- Clearly outdated modeling and/or mapping
- Caprock

¹Flood prone area identified from public comment and supplemented from available Hazard Mitigation Plans.
²Areas with modeling and/or mapping that requires update based on studies older than 10 years.



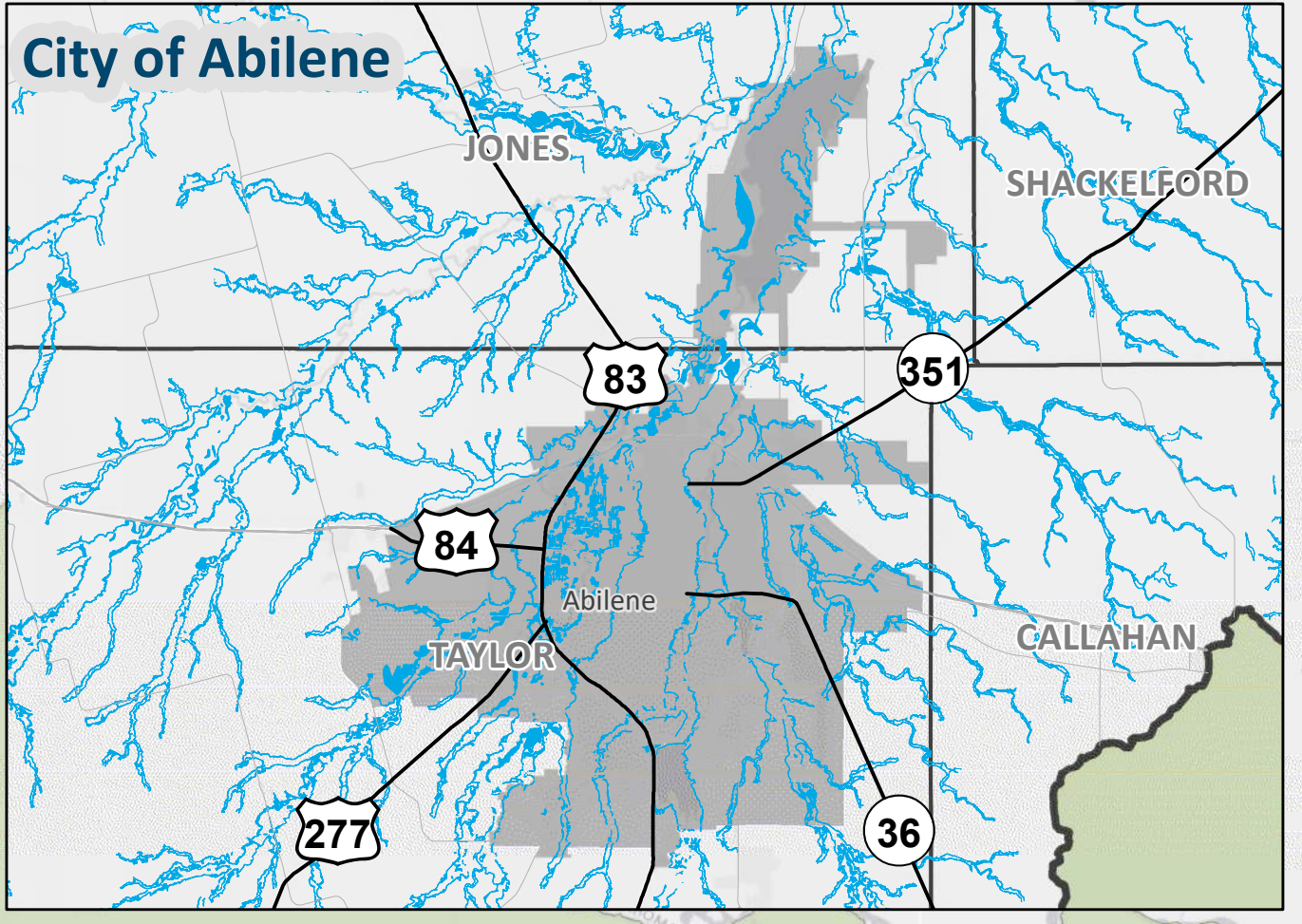
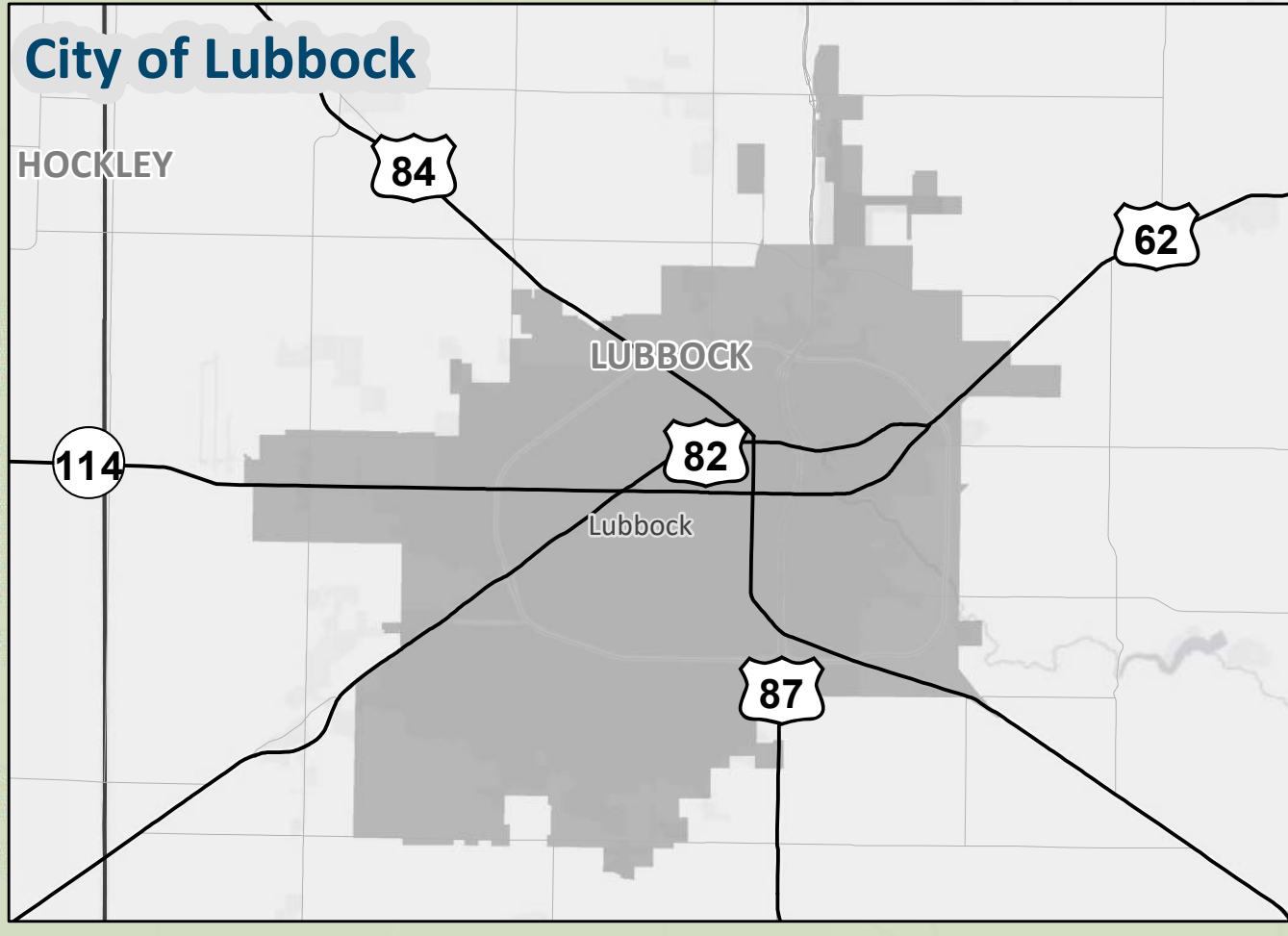
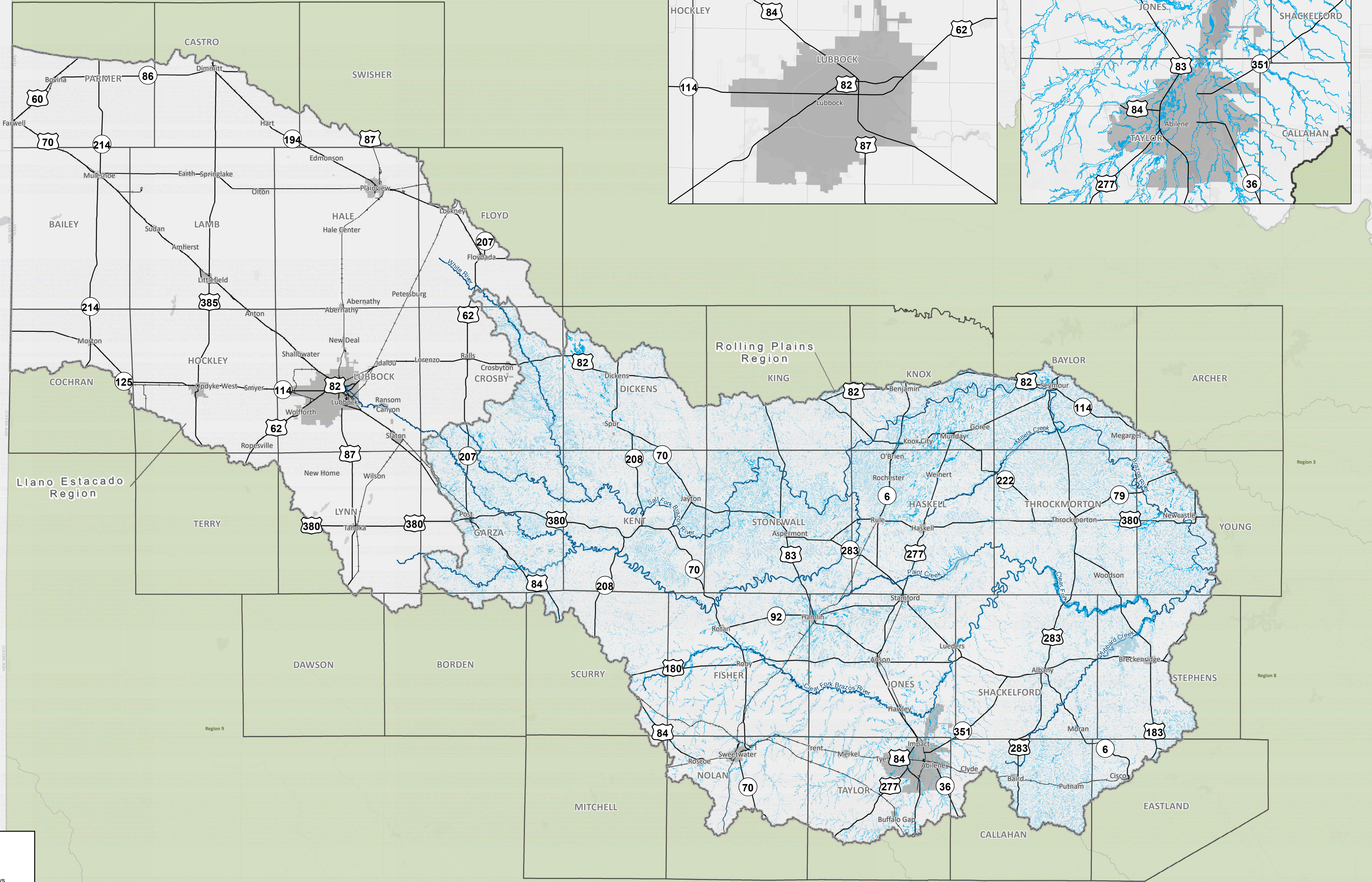
Future Condition Flood Hazard -

Gaps in Inundation Boundary Mapping and Identify Known Flood-Prone Areas

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



0 3 6 12 Miles



Legend

- Major Rivers
- Major Roadways
- 1% Flood Extent Increase
- Caprock

Future Flood Hazard Increase Extent - 1%

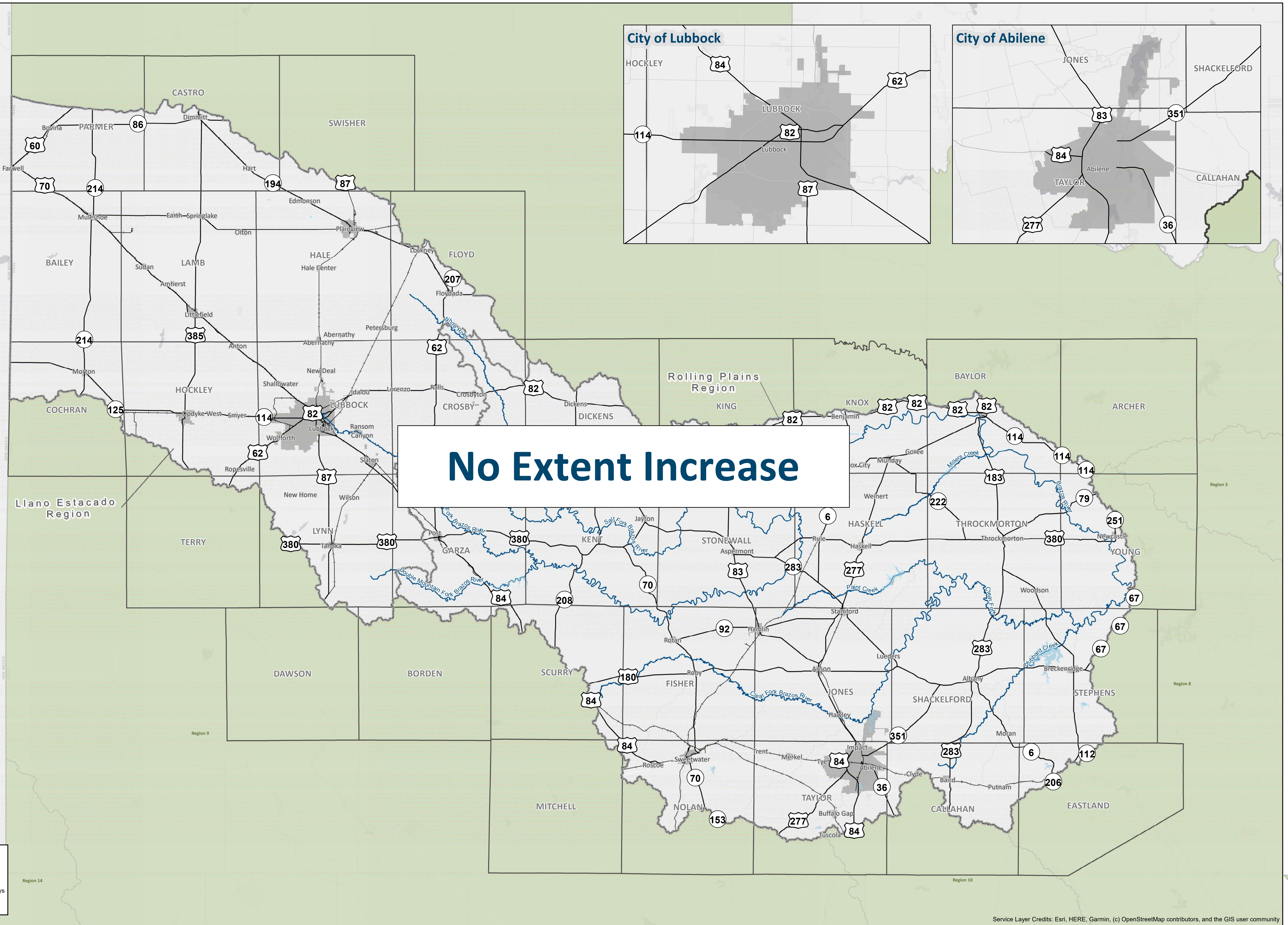
**MAP 10
Region 7**

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 3 6 12 Miles



No Extent Increase

Legend

- Major Rivers
- Major Roadways
- Caprock



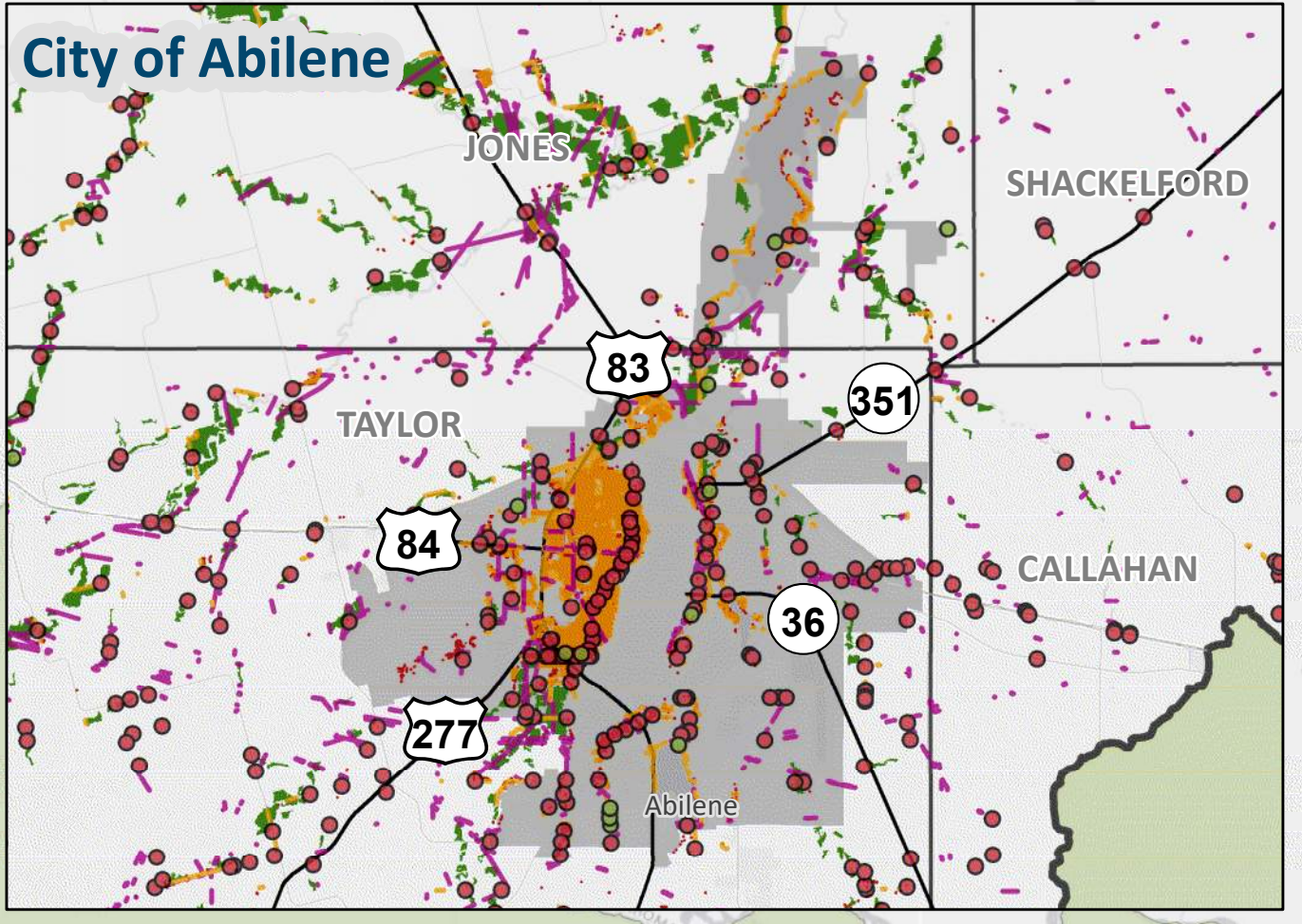
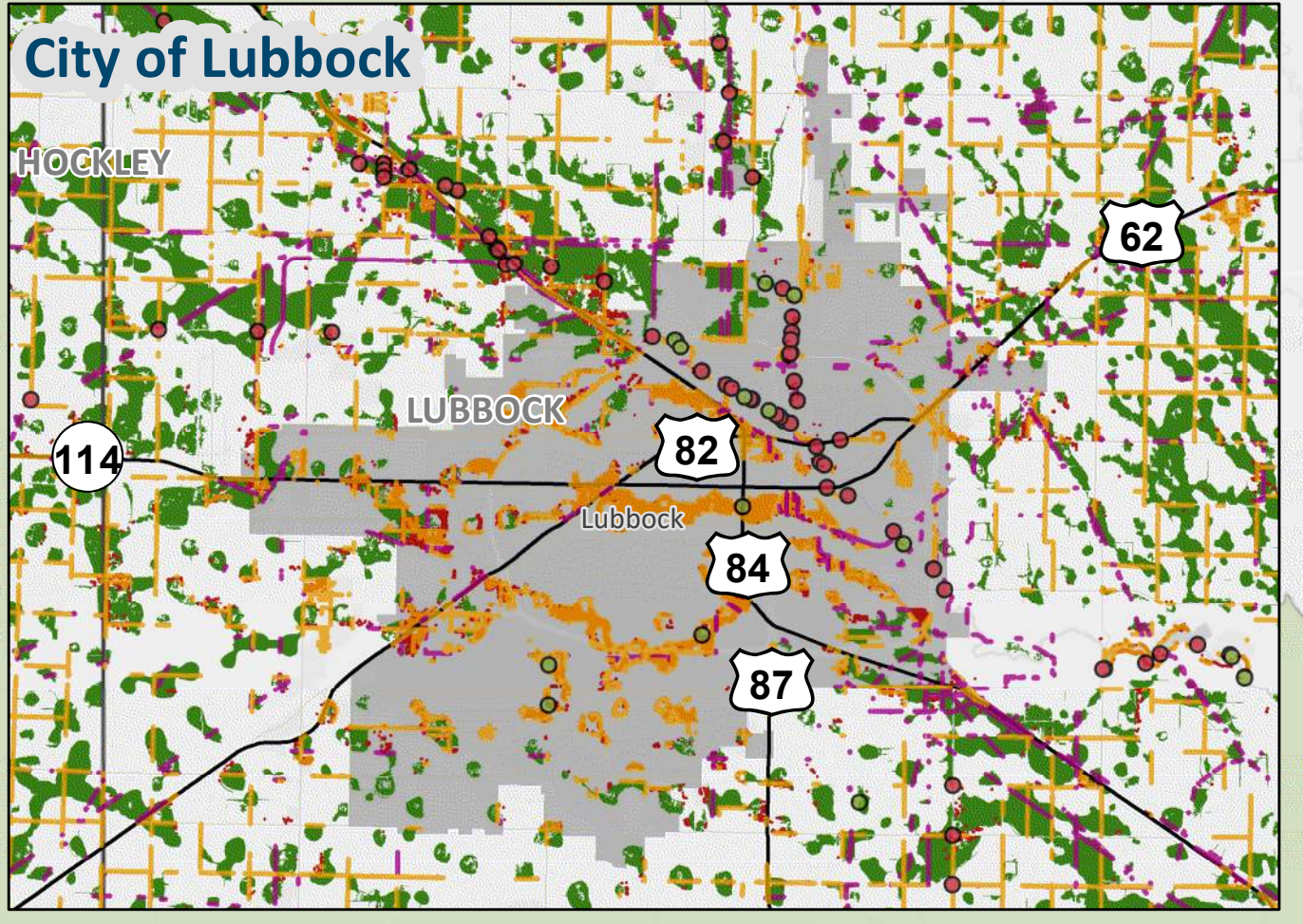
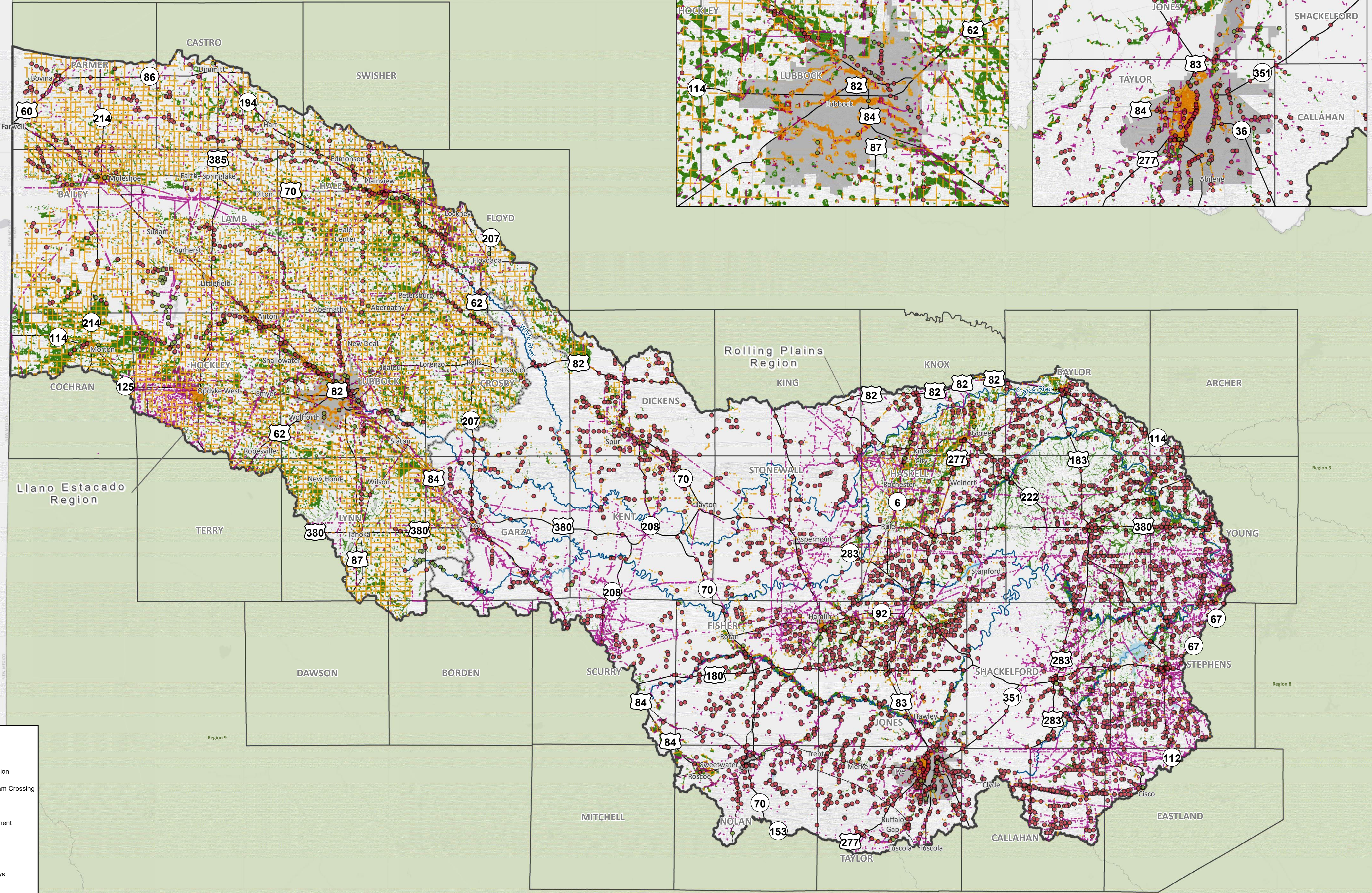
Future Flood Hazard Increase Extent - 0.2%

MAP 10
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 3 6 12 Miles



Legend

Exposure Type

- Power Generation
- Roadway Stream Crossing
- Other¹
- Roadway Segment
- Other²
- Major Rivers
- Major Roadways
- Buildings
- Agricultural Land
- Caprock

¹Other exposure types include waste water outfalls, superfund sites, and airports.
²Other exposure types include natural gas pipelines, electric power transmission lines, RRC pipelines, and railroads.

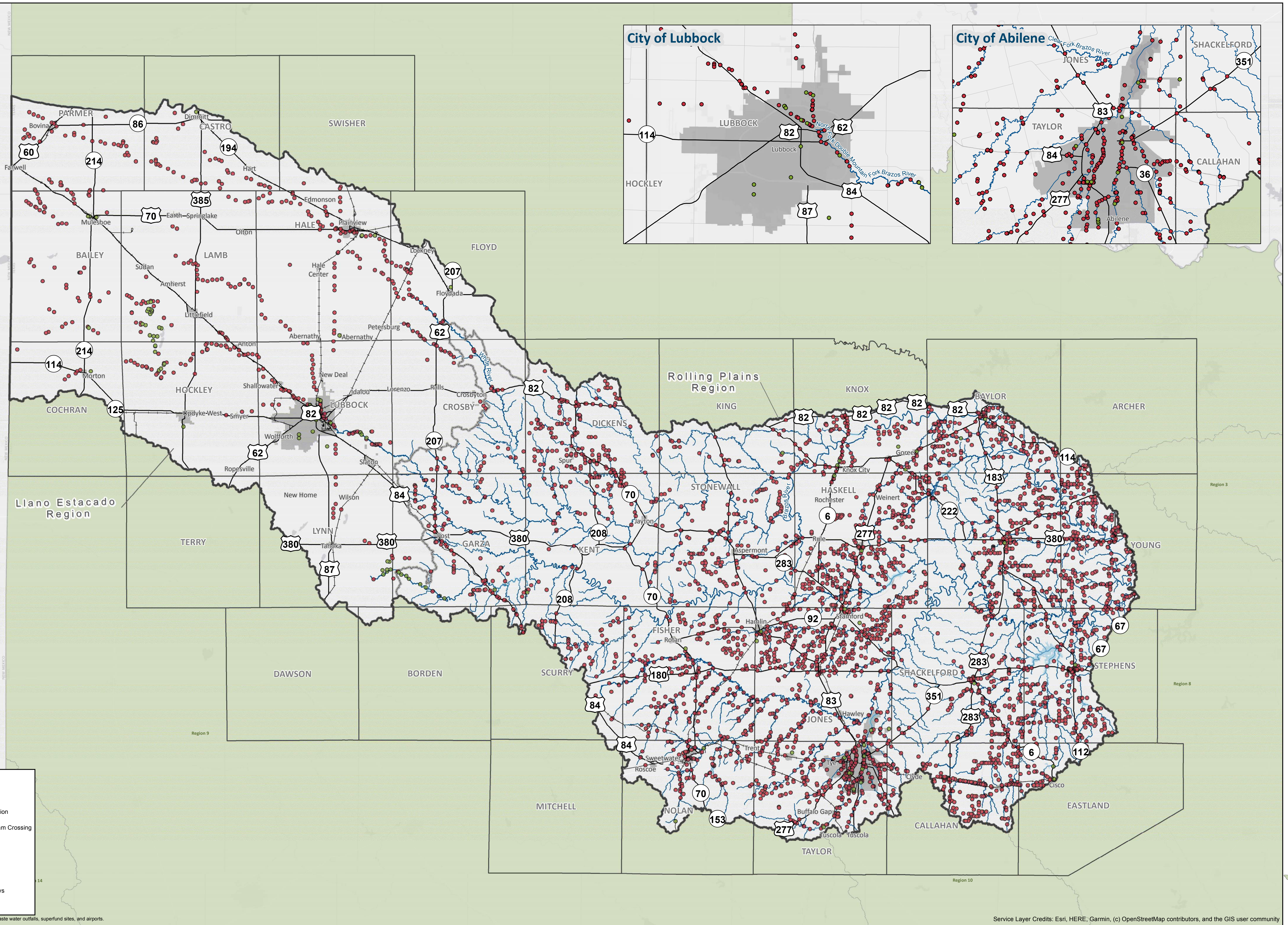
Future Condition Flood Exposure

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



MAP 11
Region 7

0 3 6 12 Miles



Legend

Exposure Type

- Power Generation
- Roadway Stream Crossing
- Other¹

— Major Rivers

— Streams

— Major Roadways

□ Caprock

Other exposure types include waste water outfalls, superfund sites, and airports.



Future Condition Flood Exposure

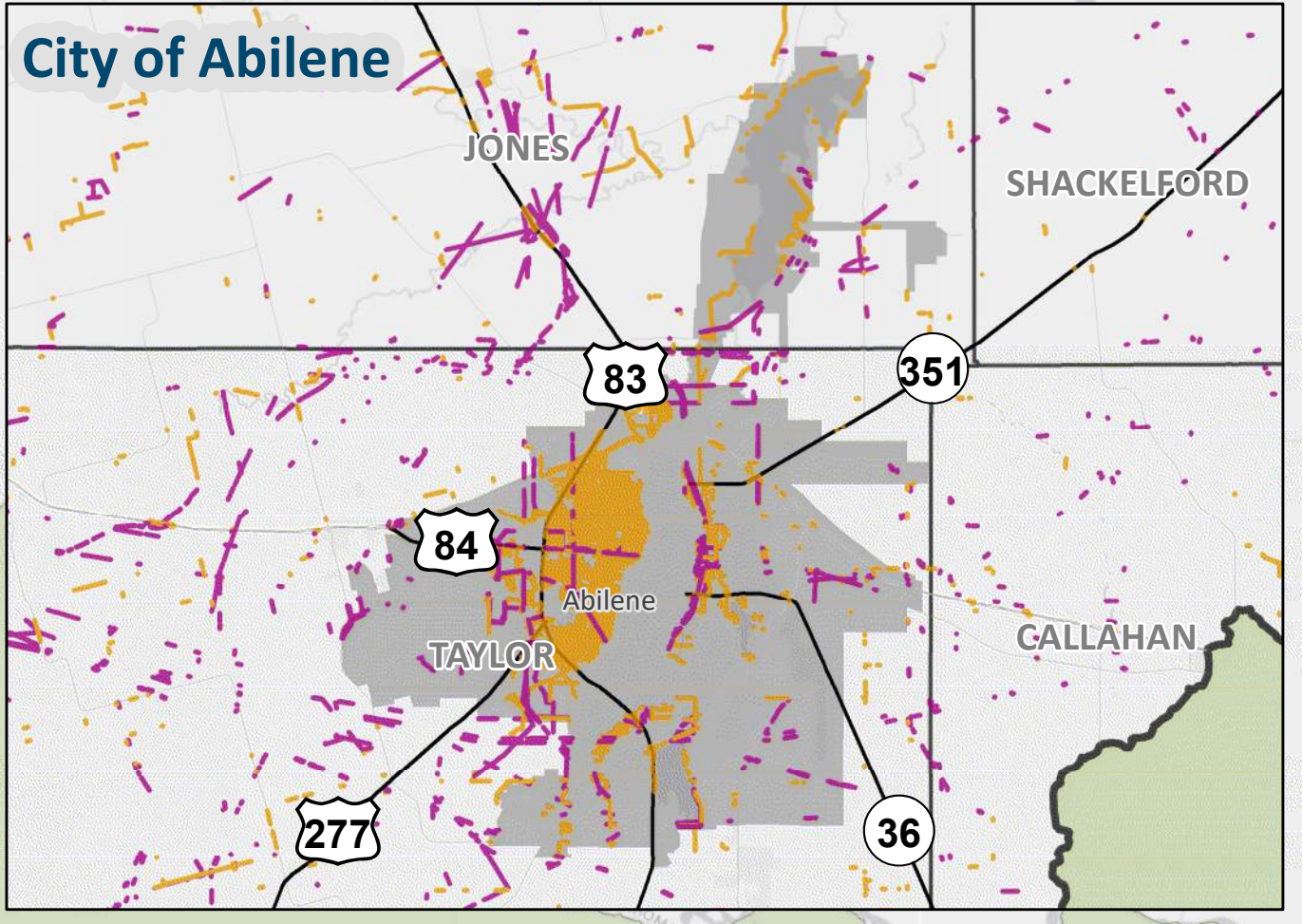
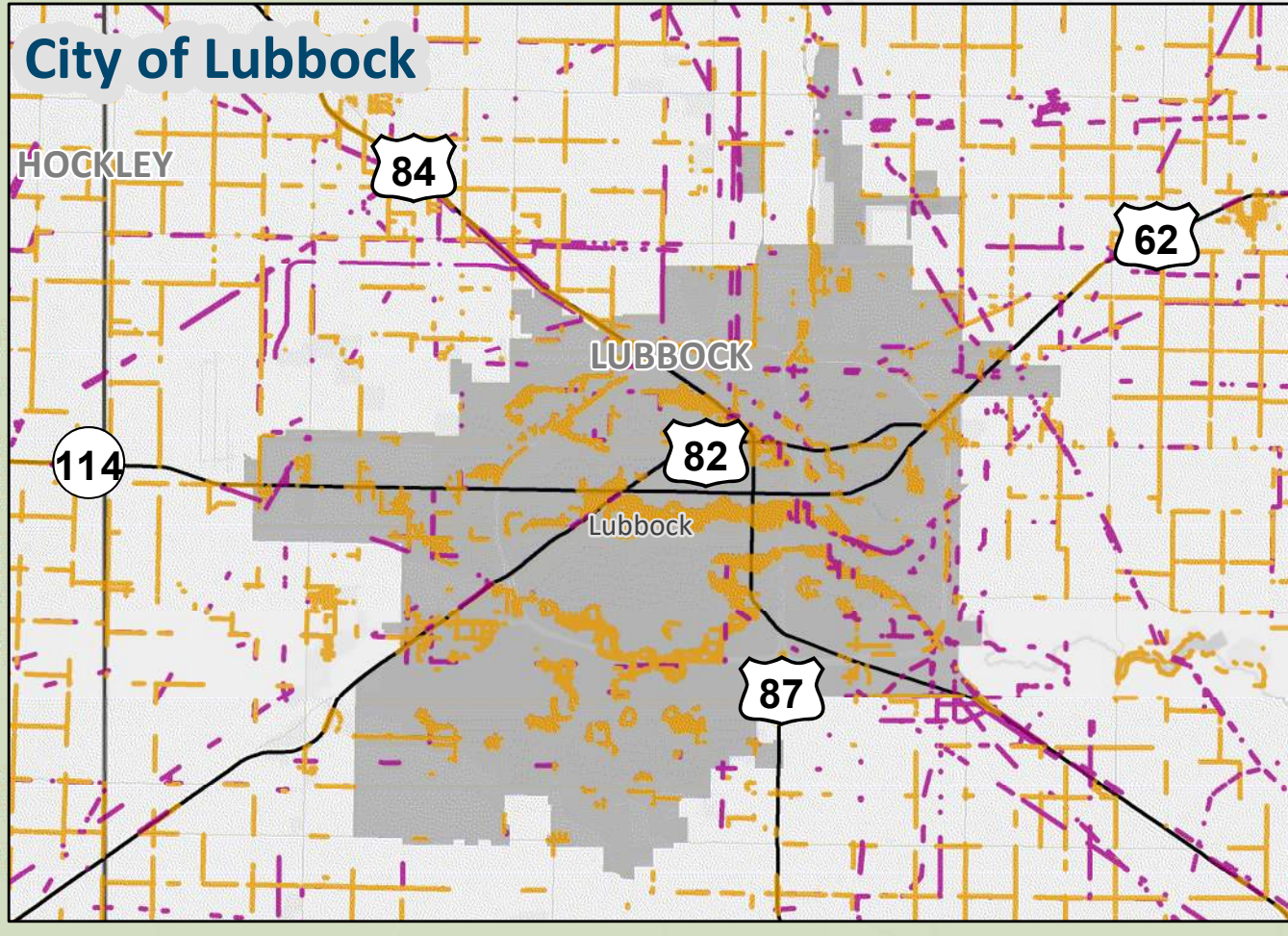
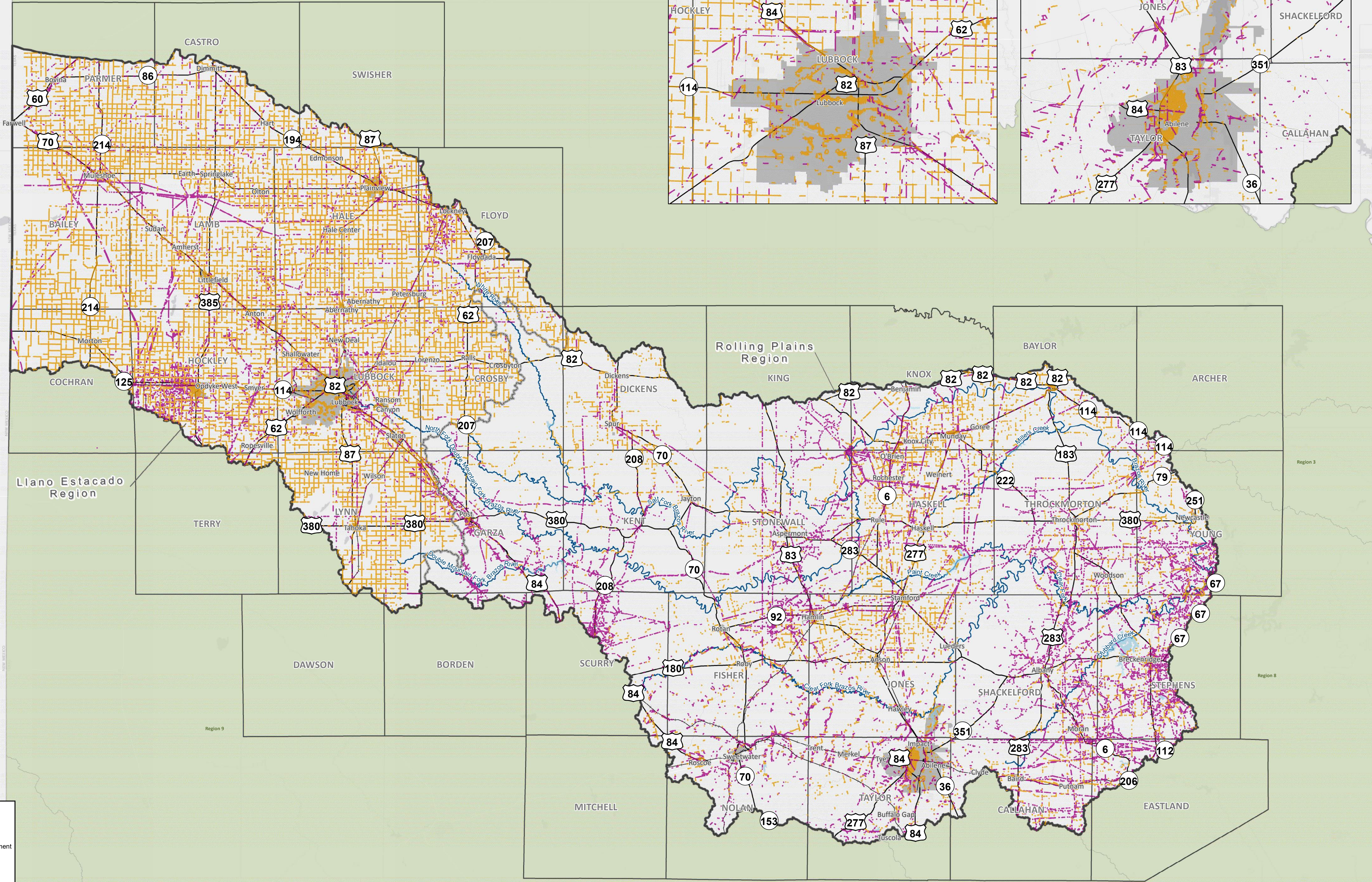
REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

MAP 11A
Region 7

12/6/2022

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 3 6 12 Miles



Legend

Exposure Type

- Roadway Segment
- Other¹
- Major Rivers
- Major Roadways
- Caprock

¹Other exposure types include natural gas pipelines, electric power transmission lines, RRC pipelines, and railroads.

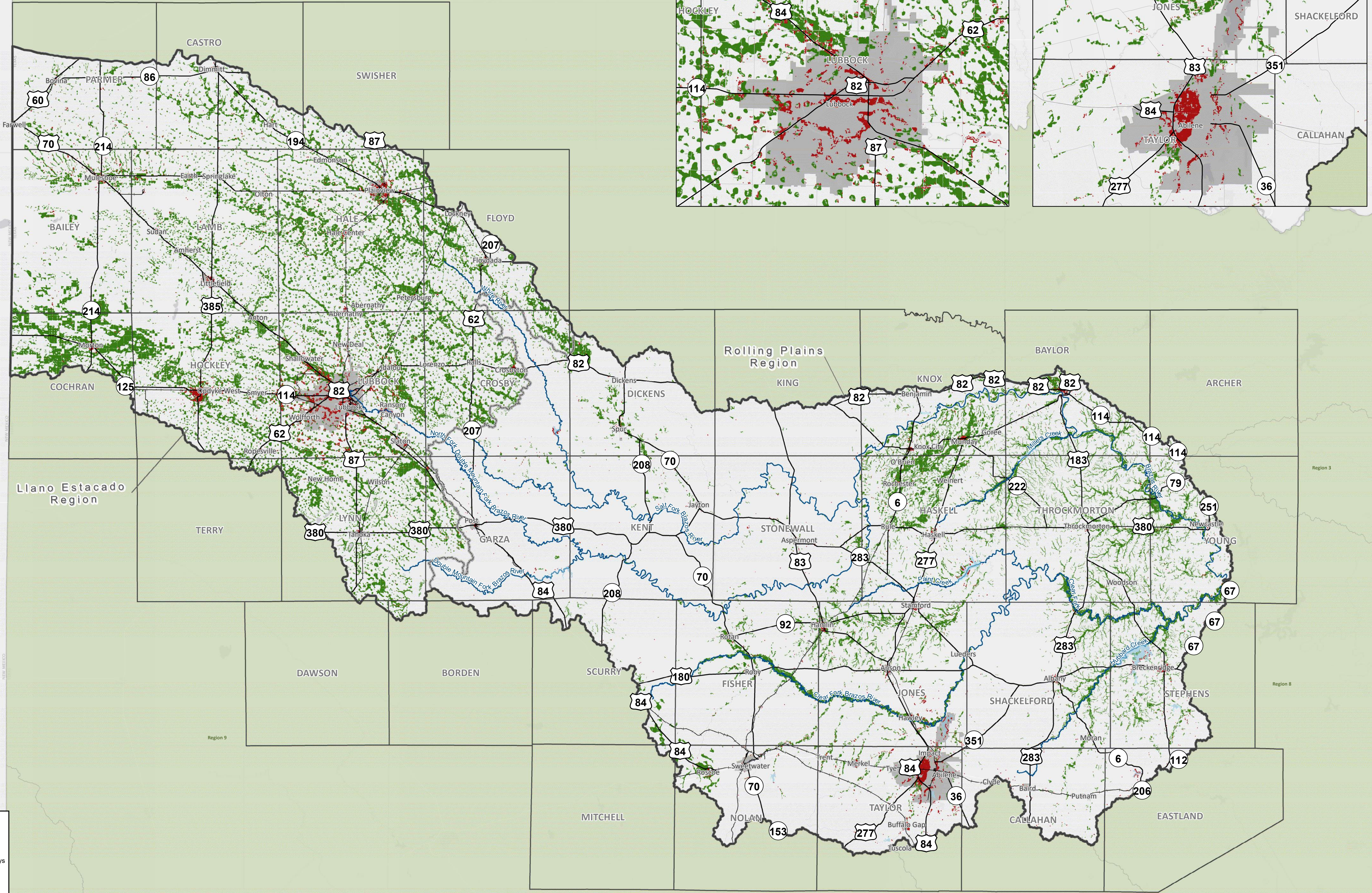
MAP 11B
Region 7

Future Condition Flood Exposure
REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 3 6 12 Miles

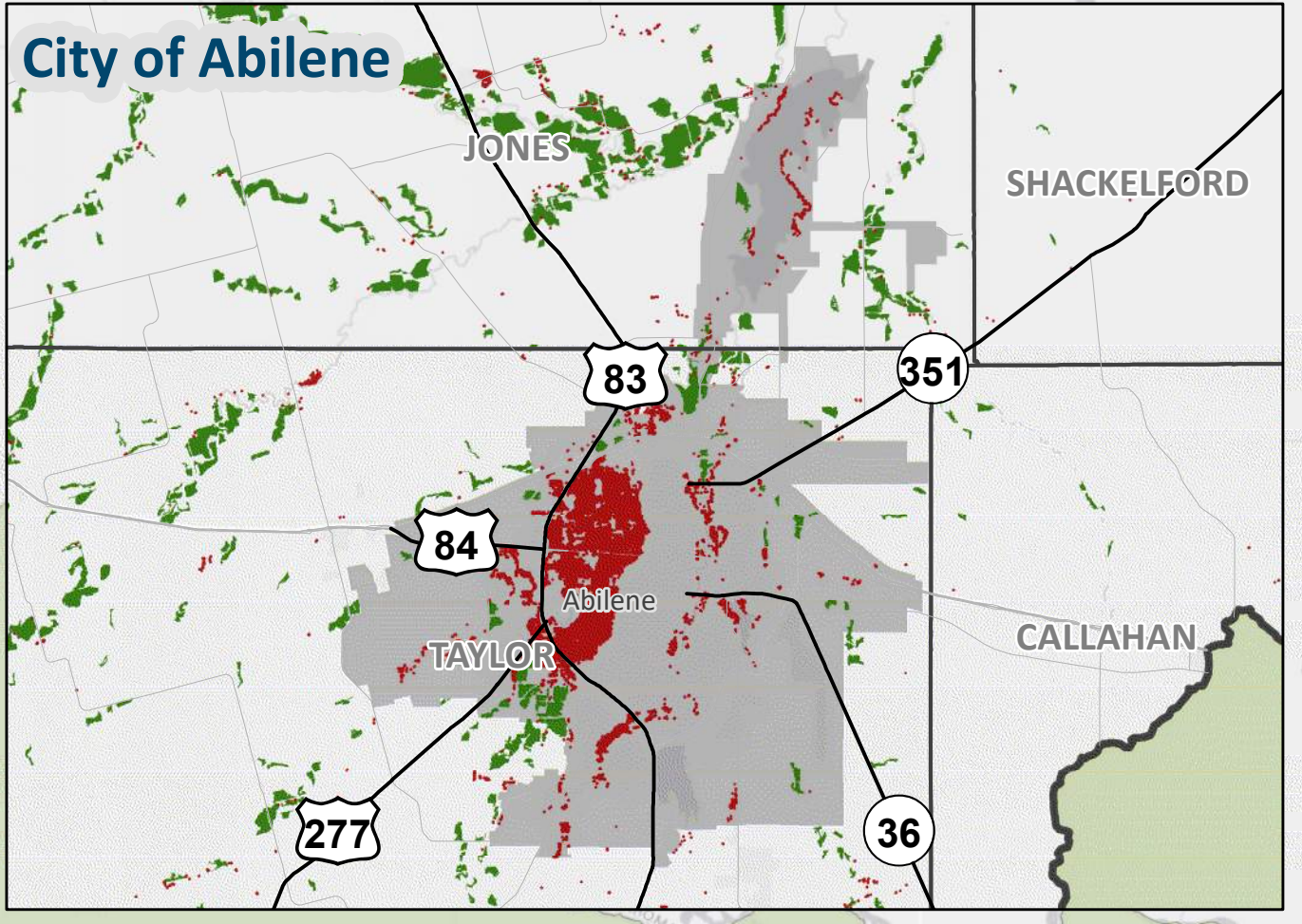
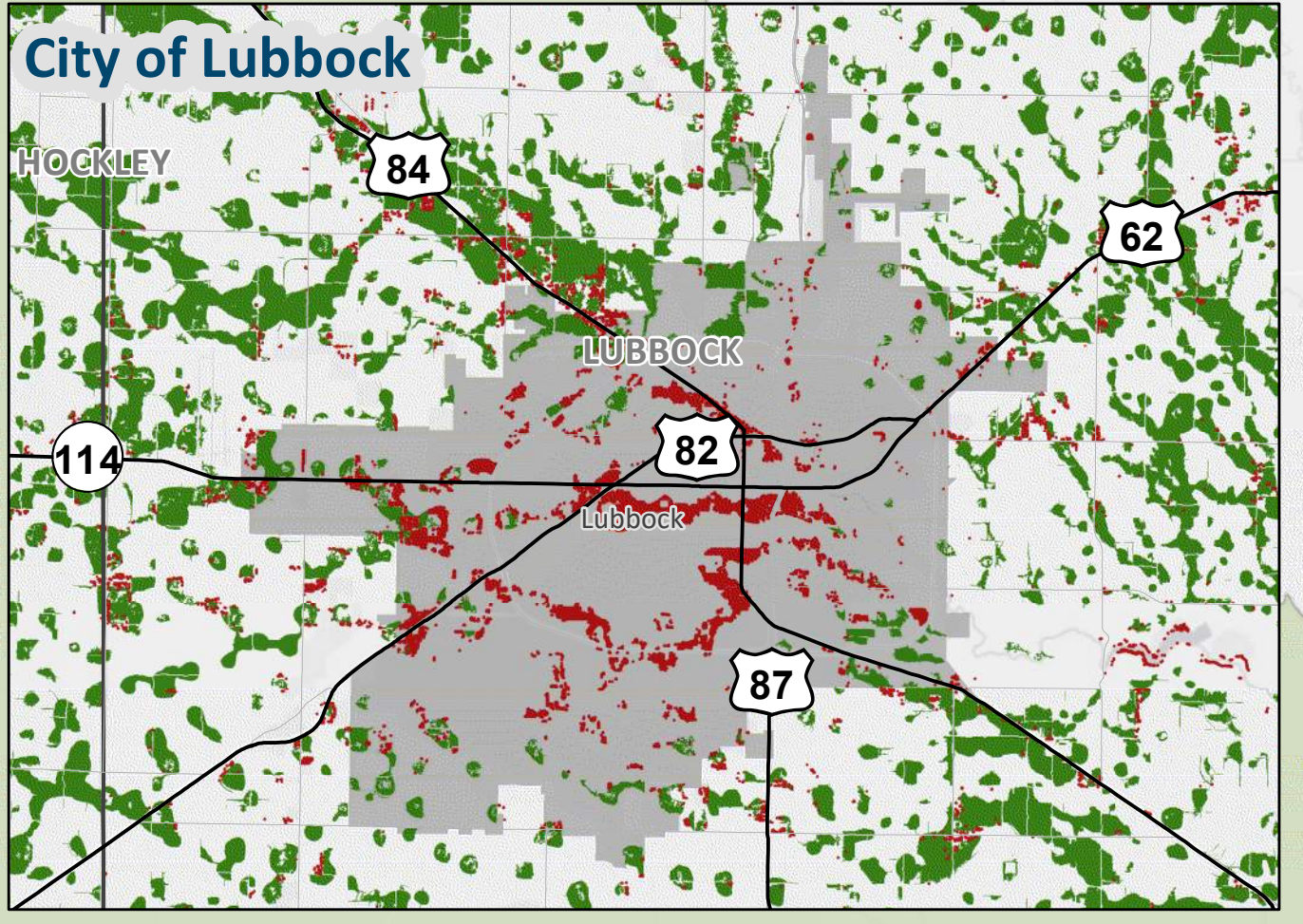


Legend

- Major Rivers
- Major Roadways

Exposure Type

- Buildings
- Agricultural Land
- Caprock



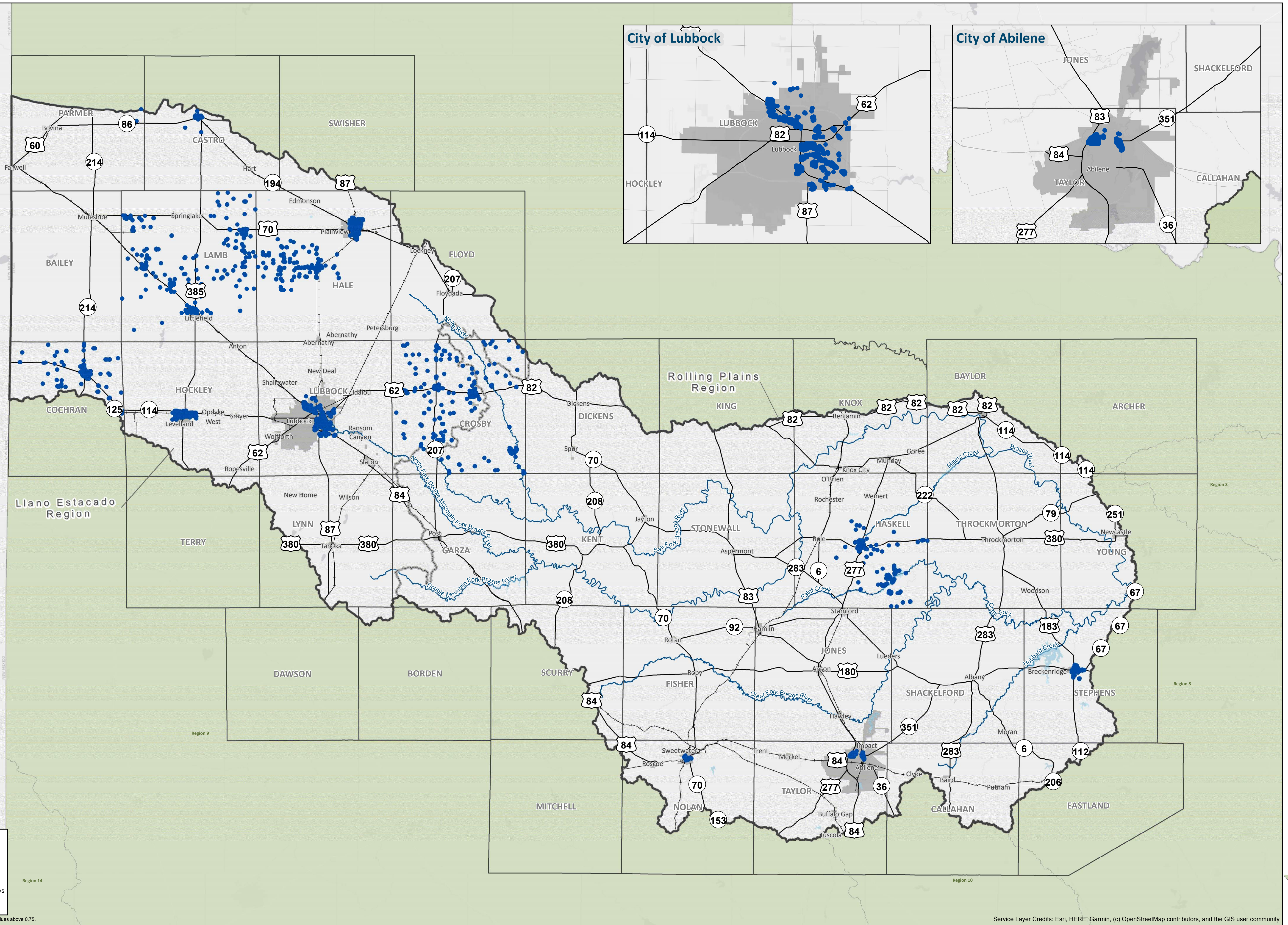
Future Condition Flood Exposure

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

MAP 11C
Region 7

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

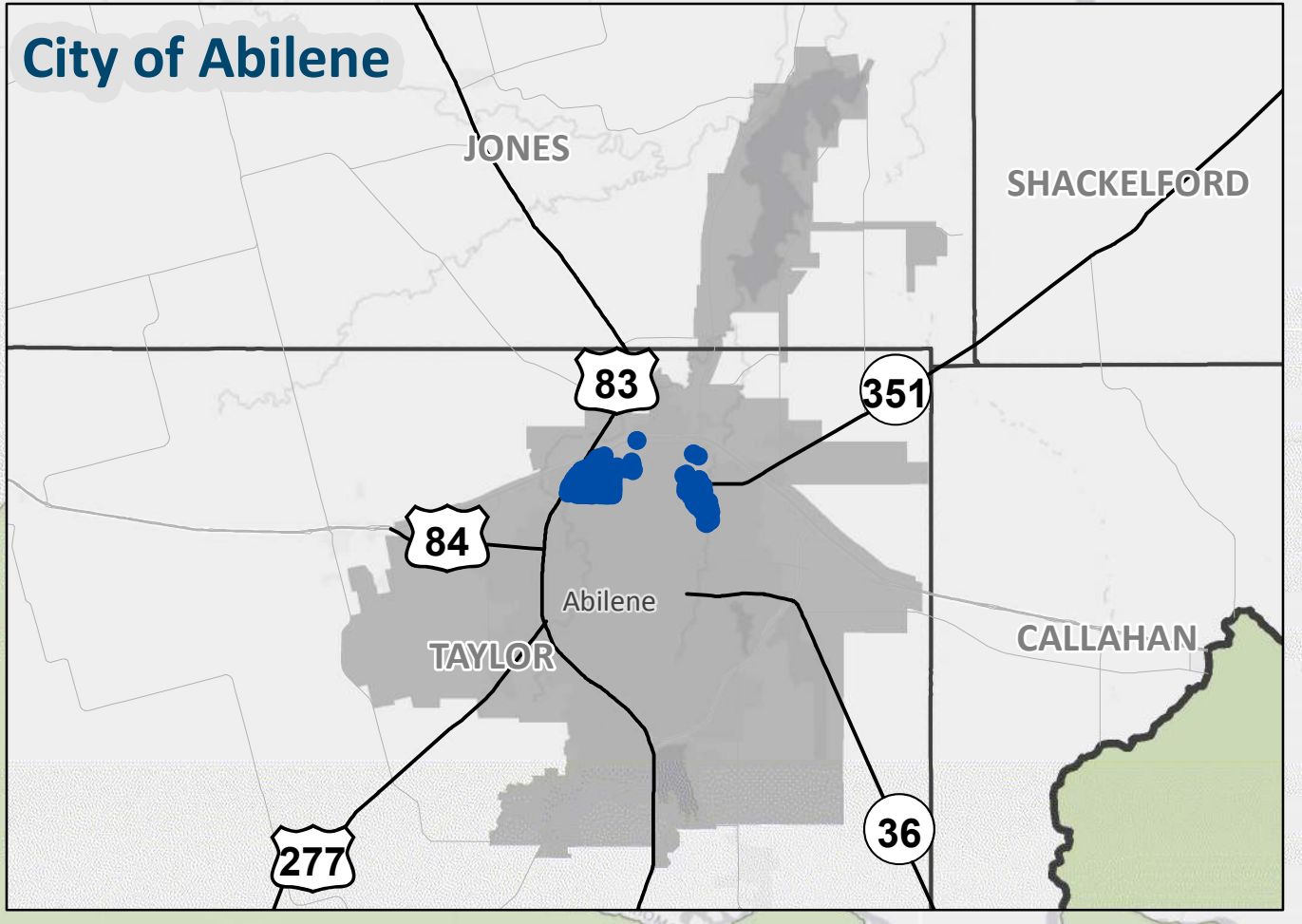
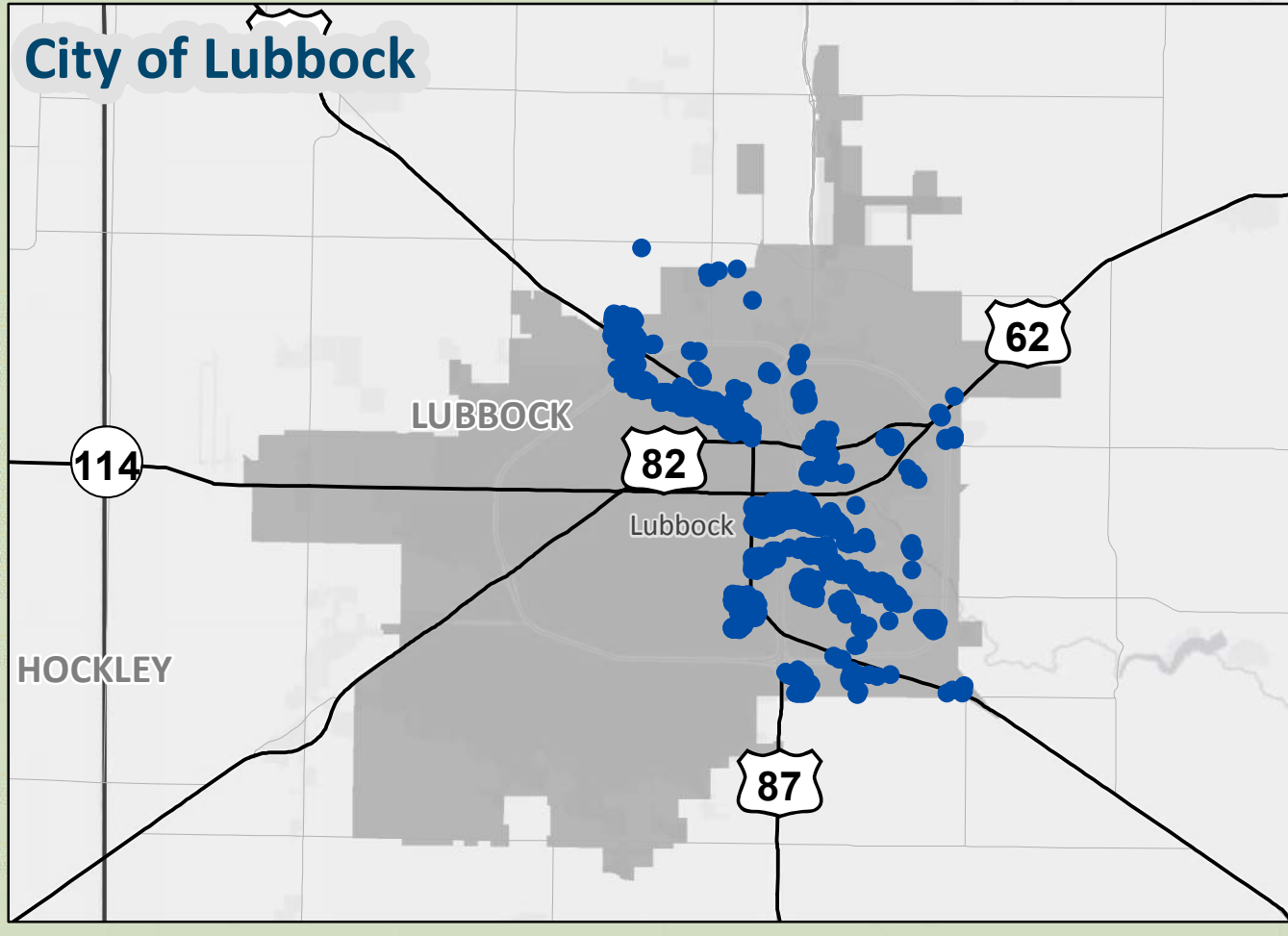
0 3 6 12 Miles



Legend

- High SVI Area¹
- Major Rivers
- Major Roadways
- ▭ Caprock

¹Density of vulnerability index values above 0.75.



Future Condition Vulnerability

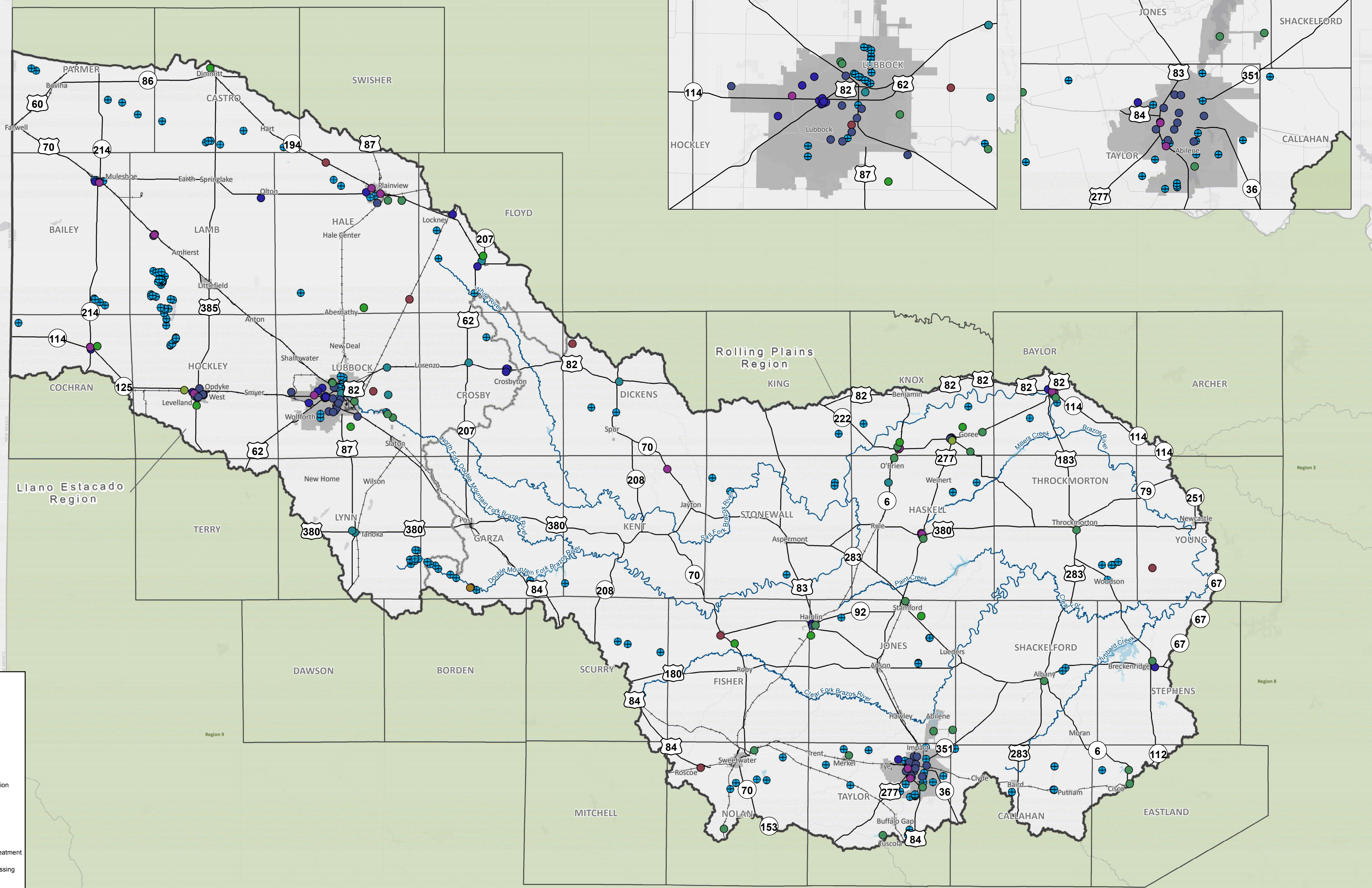
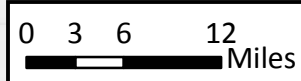
MAP 12A

Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



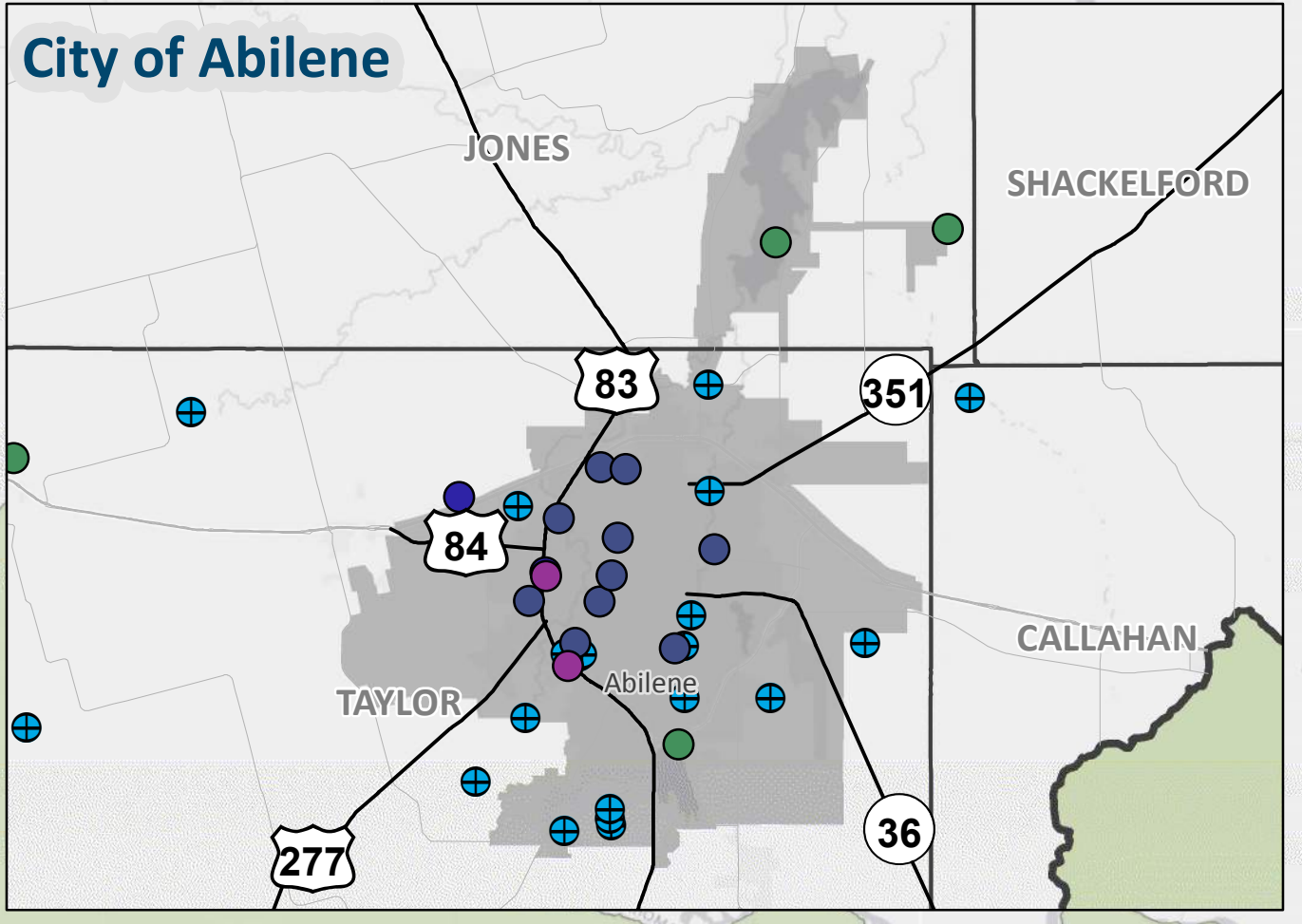
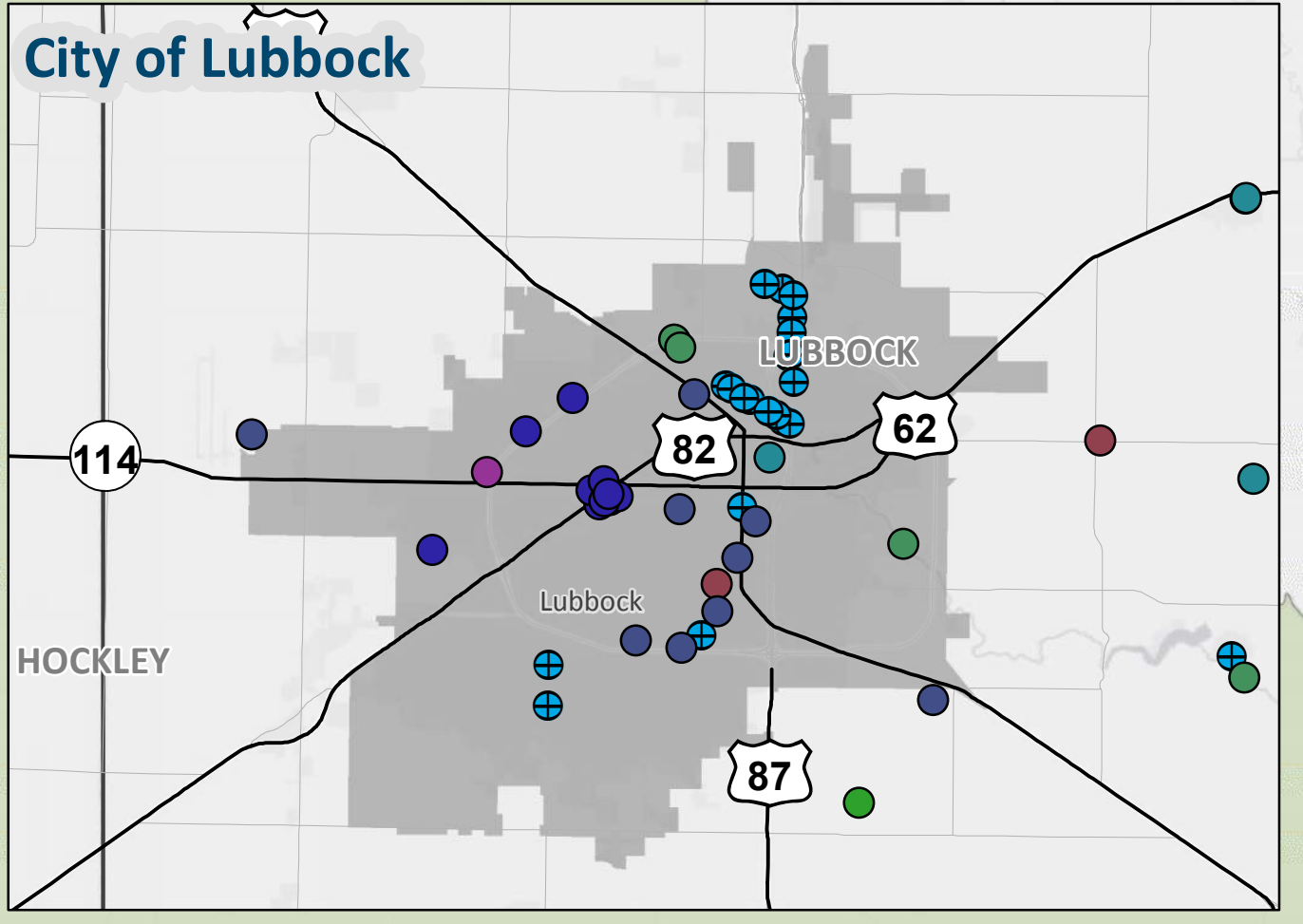
Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community



Legend

Infrastructure Type

- Fire
- Infrastructure
- Medical
- Police
- Power Generation
- School
- Shelter
- Superfund Site
- Wastewater Treatment
- ⊕ Low Water Crossing
- Caprock
- Major Rivers
- Major Roadways



Existing Condition Critical Infrastructure At Risk

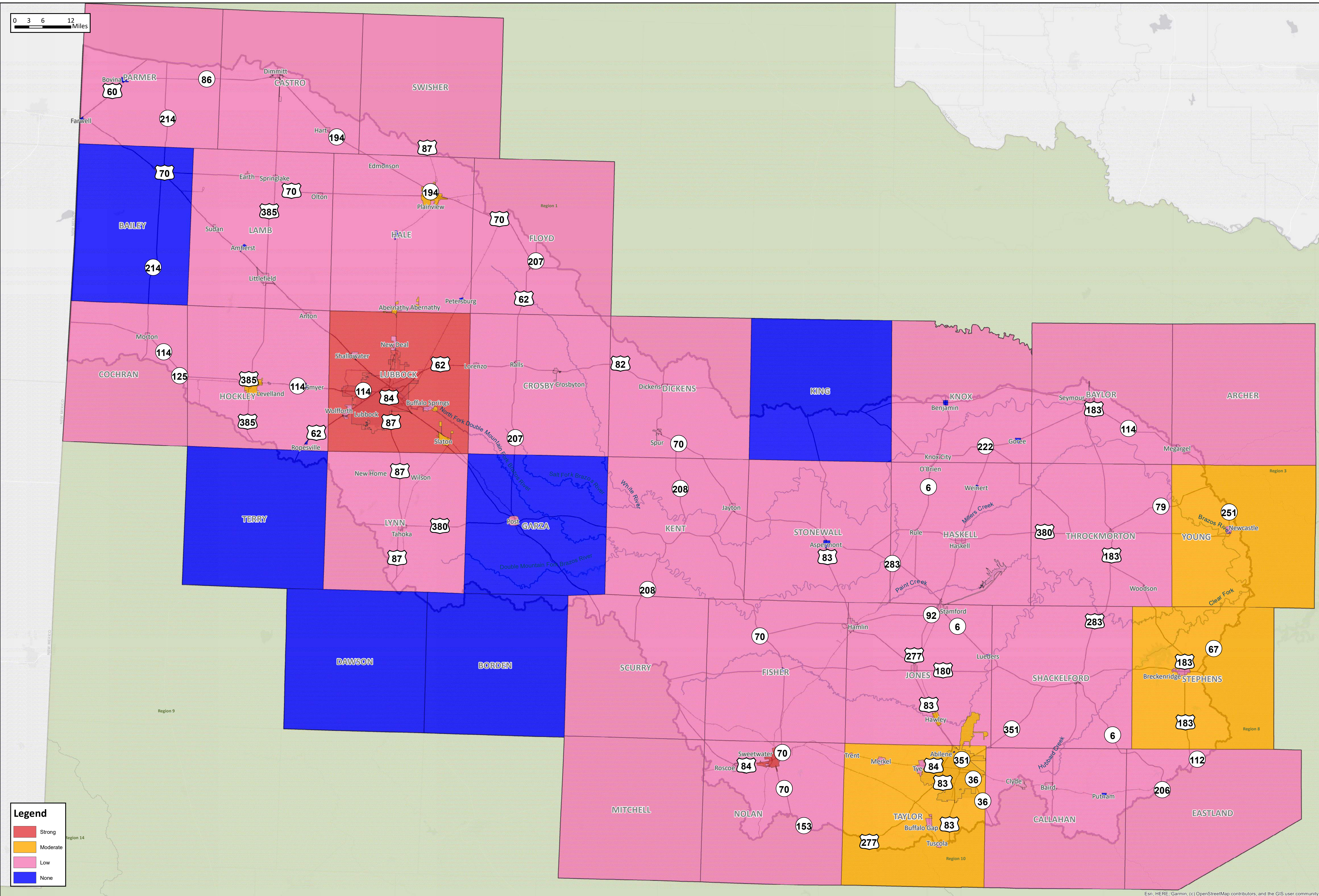
MAP 12B

Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 3 6 12 Miles



Legend

- Strong
- Moderate
- Low
- None

Floodplain Management

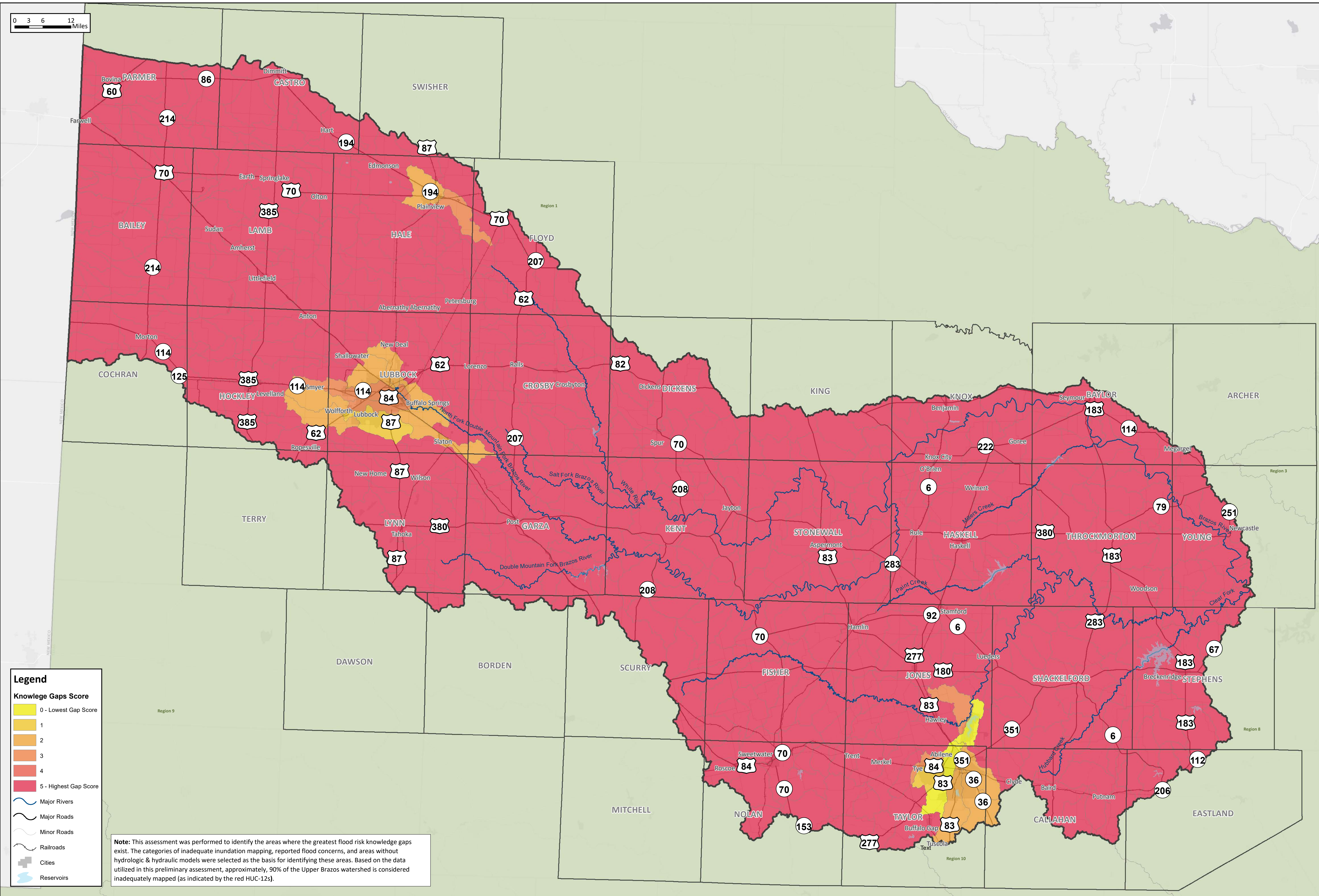
MAP 13 Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



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0 3 6 12 Miles



Legend

Knowledge Gaps Score

- 0 - Lowest Gap Score
- 1
- 2
- 3
- 4
- 5 - Highest Gap Score

- Major Rivers
- Major Roads
- Minor Roads
- Railroads
- Cities
- Reservoirs

Note: This assessment was performed to identify the areas where the greatest flood risk knowledge gaps exist. The categories of inadequate inundation mapping, reported flood concerns, and areas without hydrologic & hydraulic models were selected as the basis for identifying these areas. Based on the data utilized in this preliminary assessment, approximately, 90% of the Upper Brazos watershed is considered inadequately mapped (as indicated by the red HUC-12s).



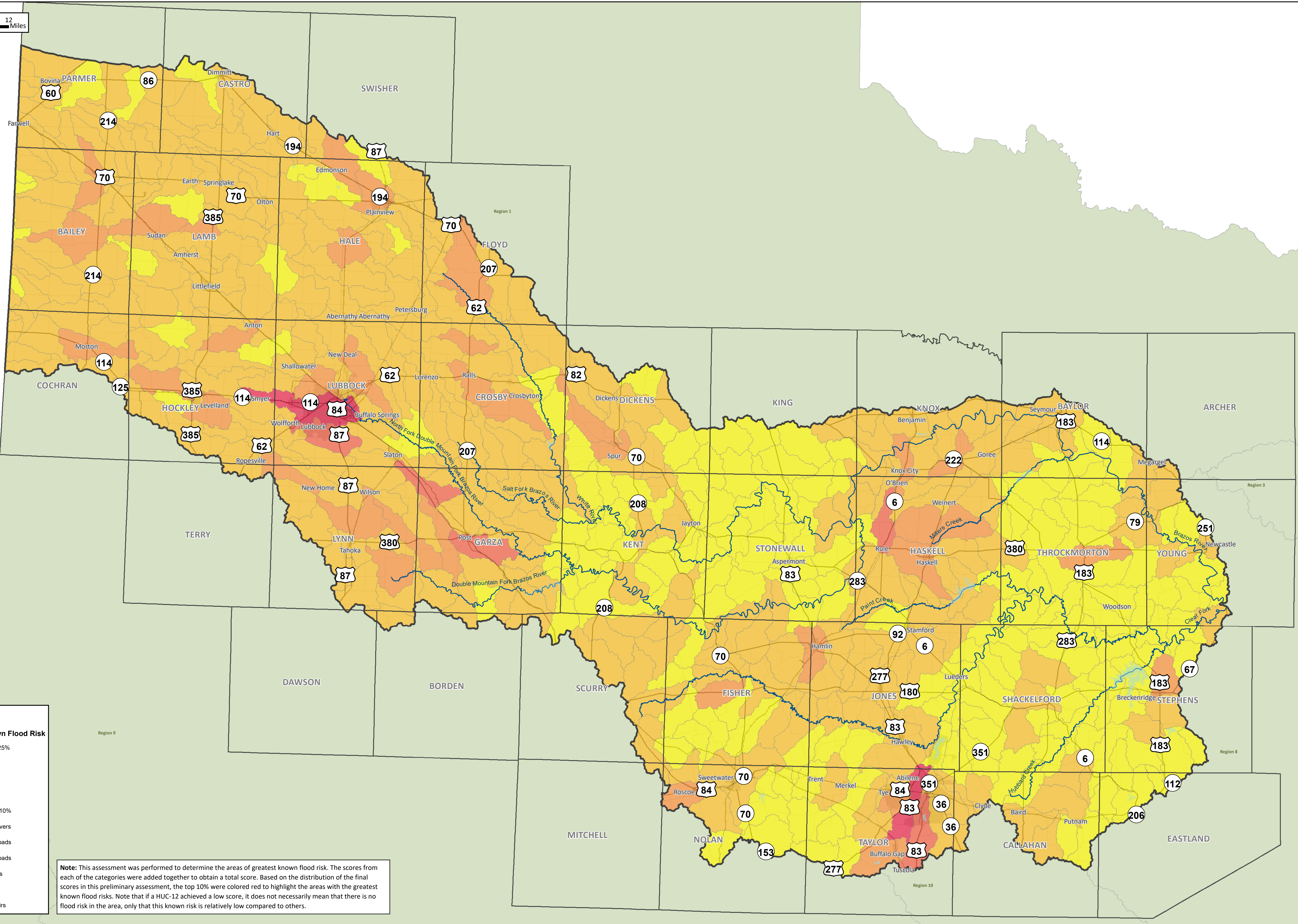
Greatest Gaps in Flood Risk Information

MAP 14
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

12/2023

0 3 6 12 Miles



Legend

Greatest Known Flood Risk

- Lowest 25%
- 25-50%
- 50-75%
- 75-90%
- Highest 10%

Major Rivers

Major Roads

Minor Roads

Railroads

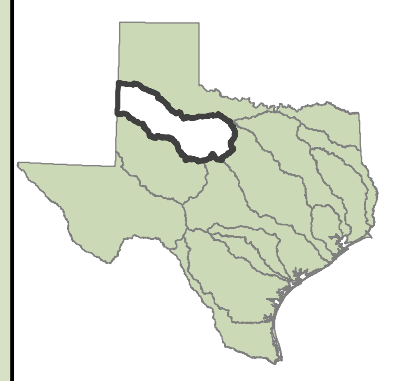
Cities

Reservoirs

Note: This assessment was performed to determine the areas of greatest known flood risk. The scores from each of the categories were added together to obtain a total score. Based on the distribution of the final scores in this preliminary assessment, the top 10% were colored red to highlight the areas with the greatest known flood risks. Note that if a HUC-12 achieved a low score, it does not necessarily mean that there is no flood risk in the area, only that this known risk is relatively low compared to others.

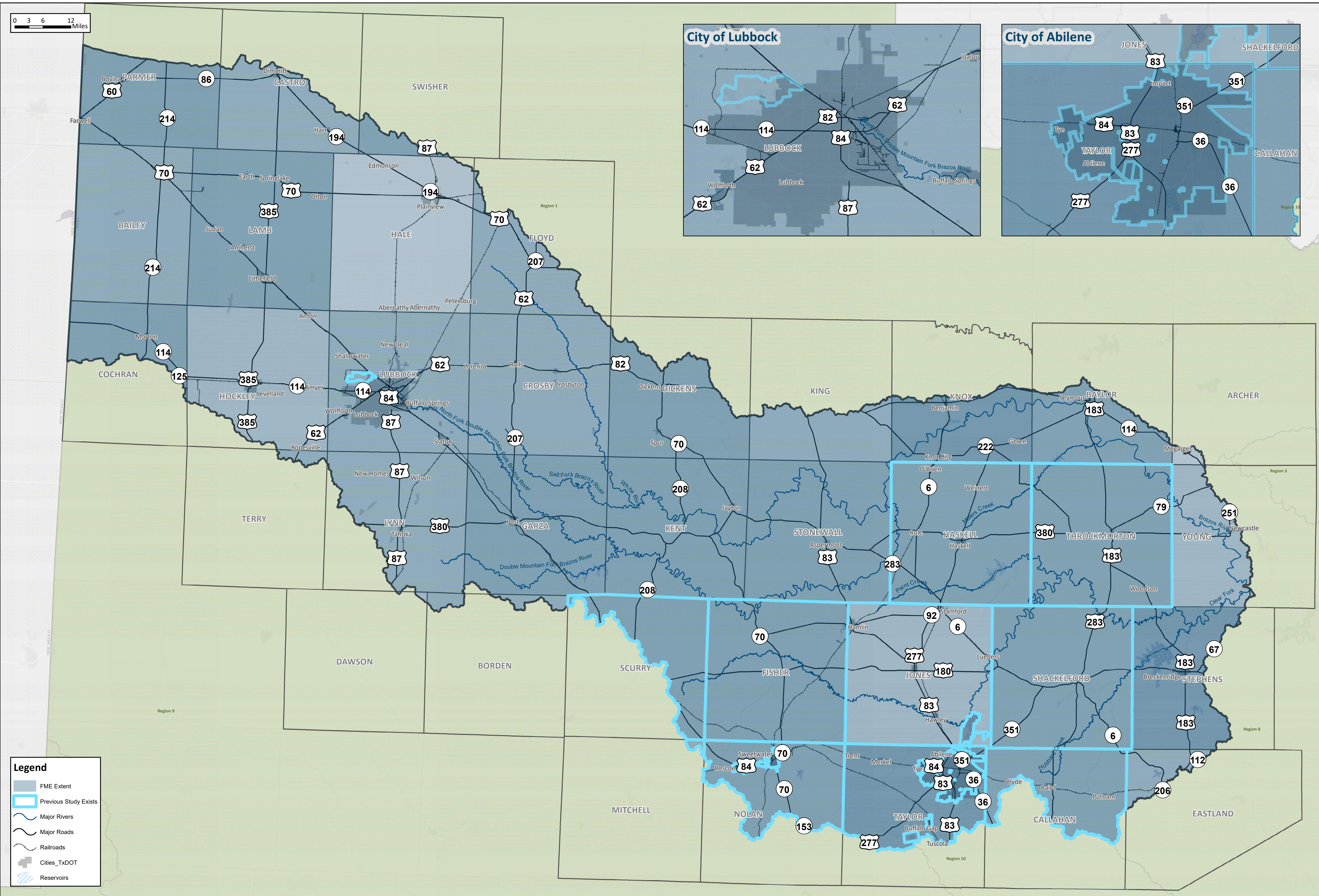
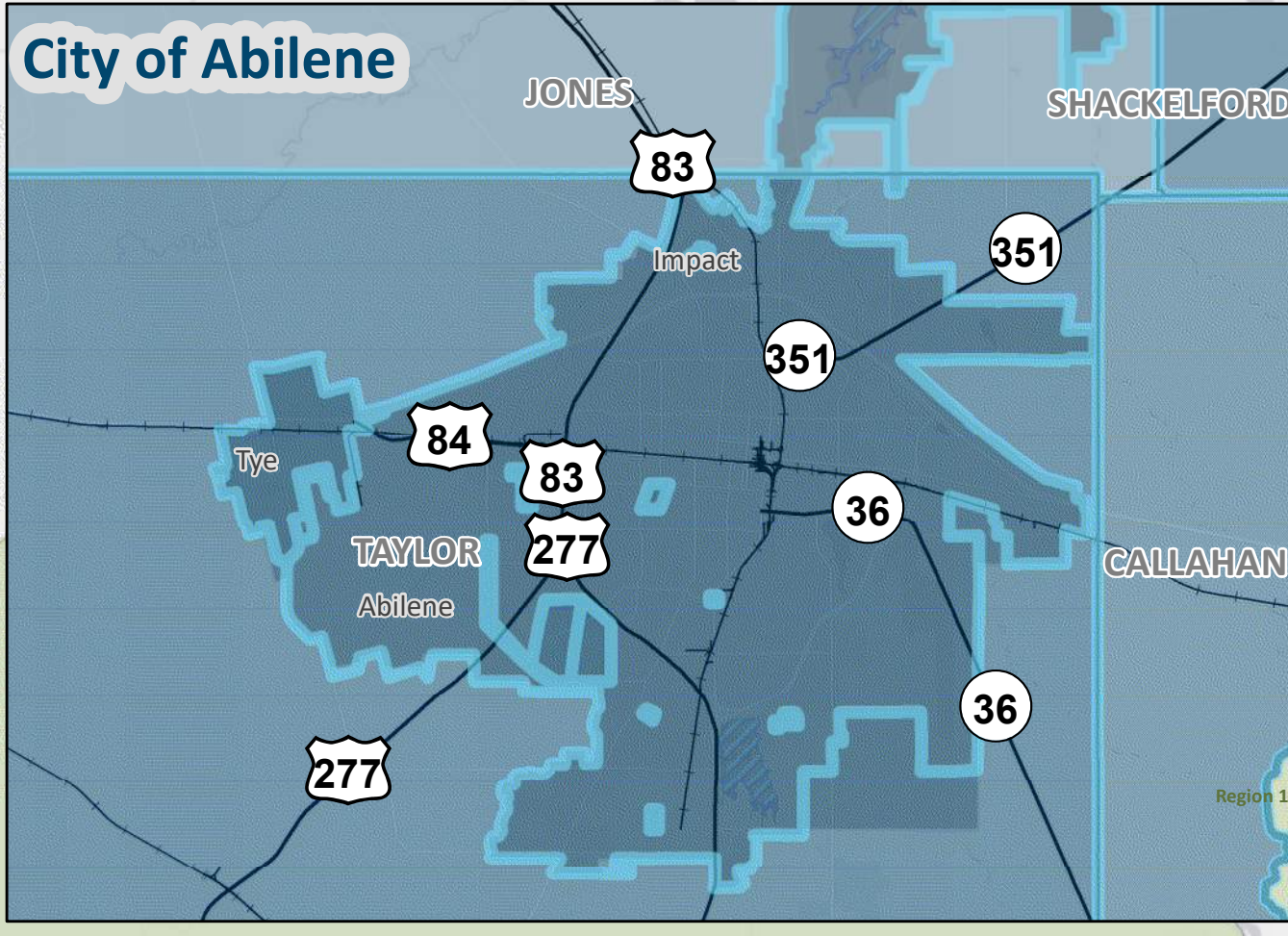
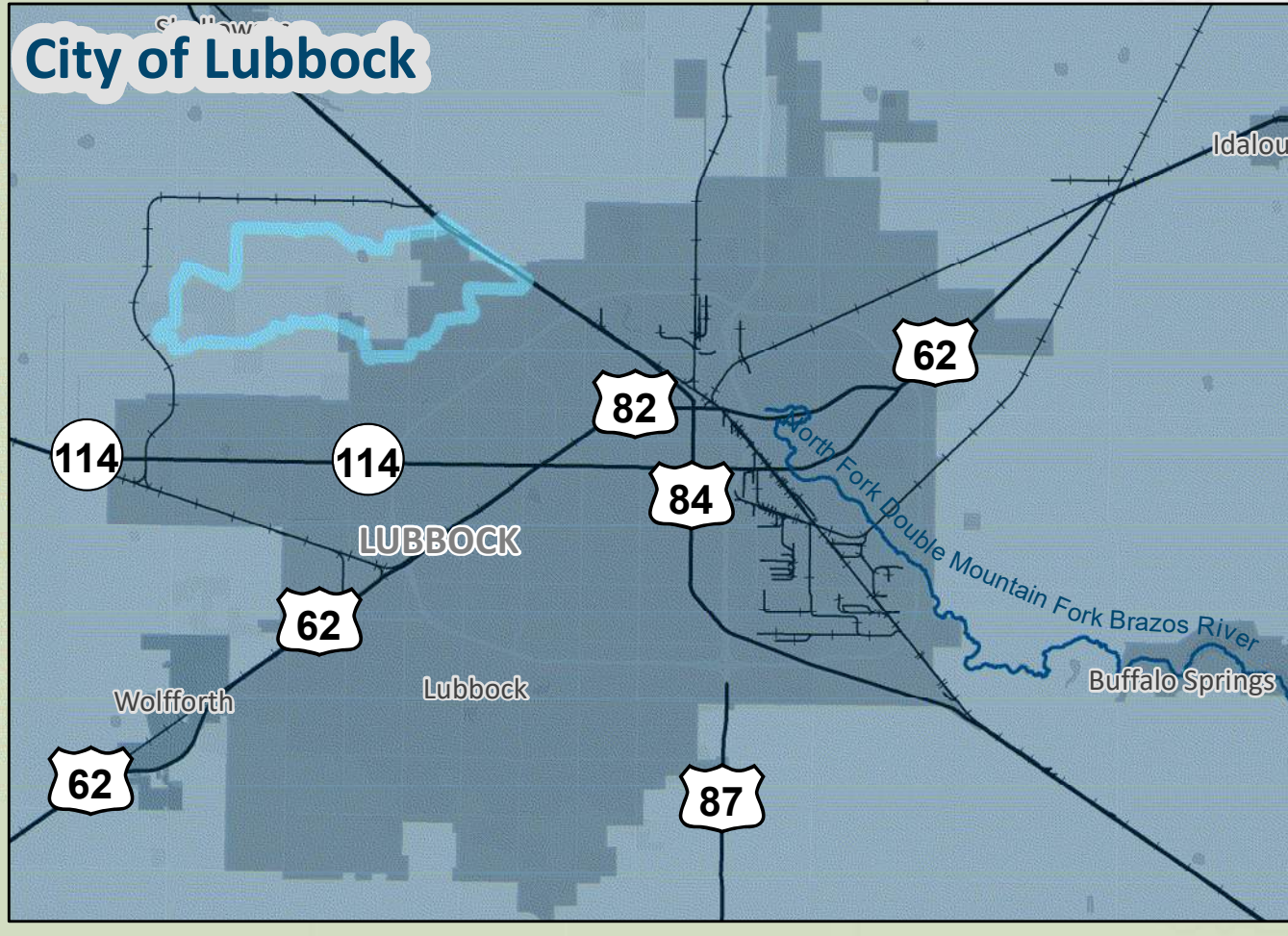
Greatest Flood Risk

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



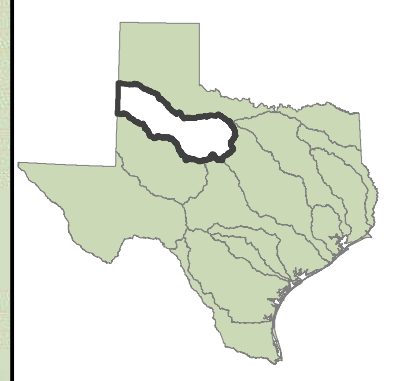
MAP 15
Region 7

0 3 6 12 Miles



Legend

- FME Extent
- Previous Study Exists
- Major Rivers
- Major Roads
- Railroads
- Cities_TxDOT
- Reservoirs

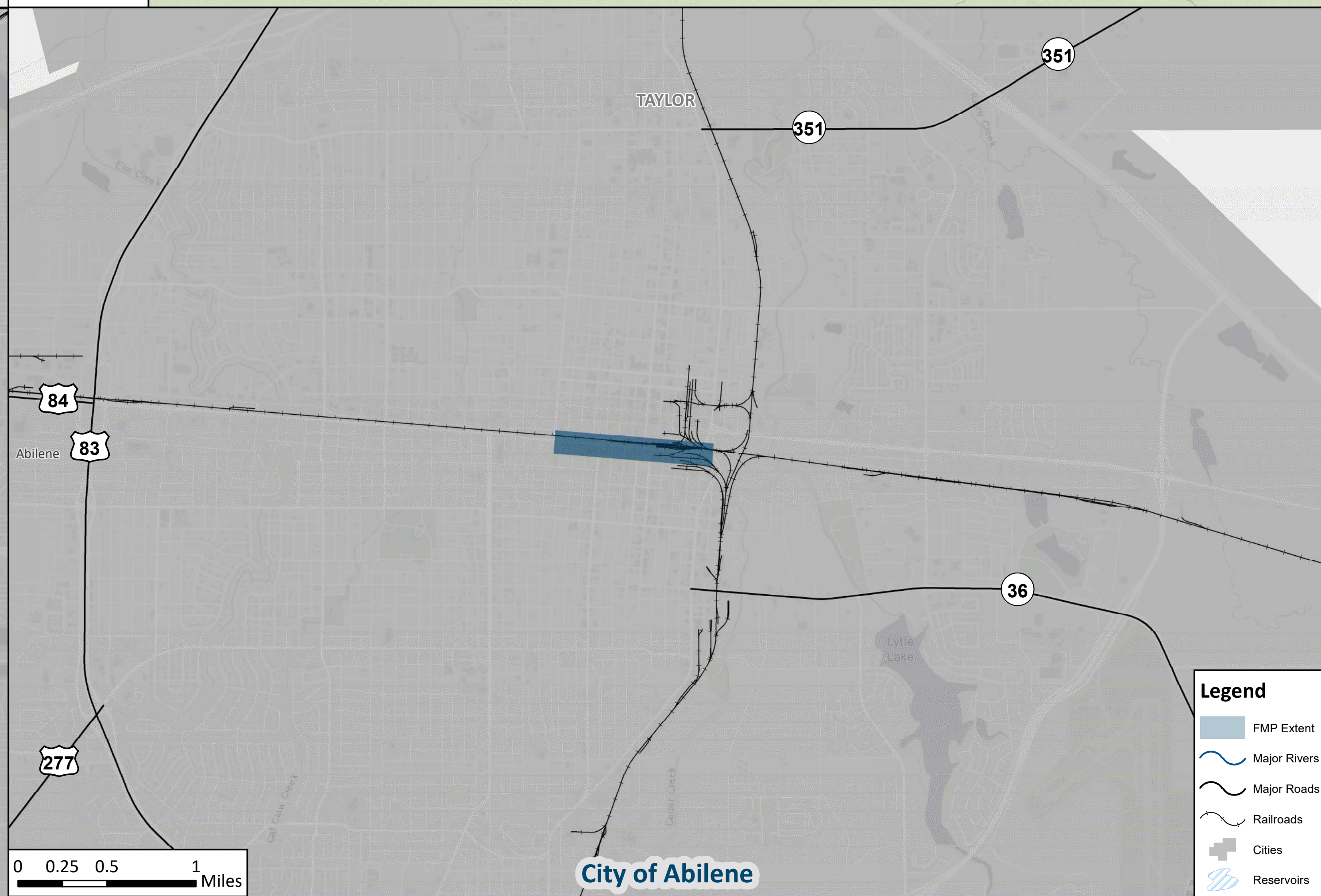
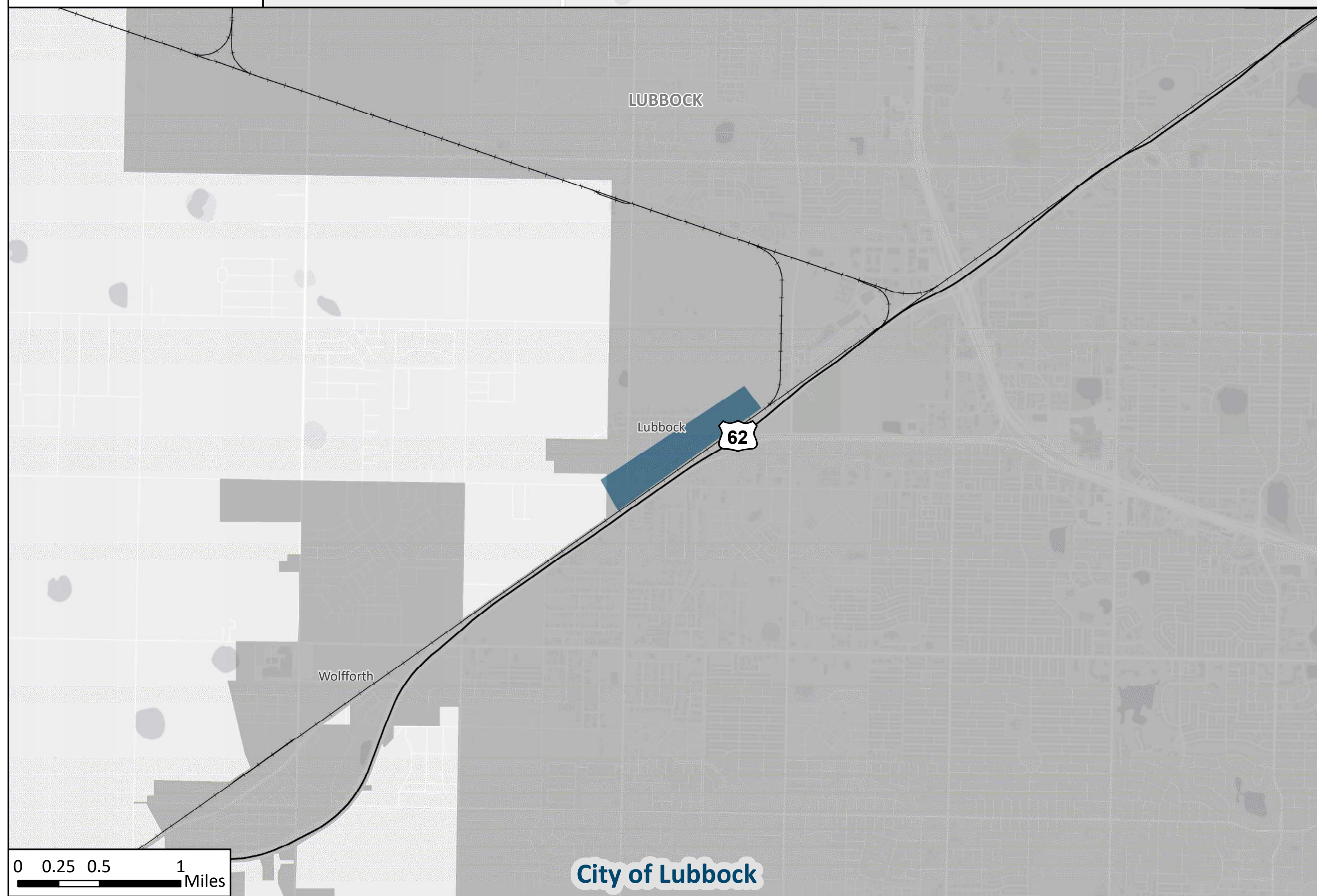
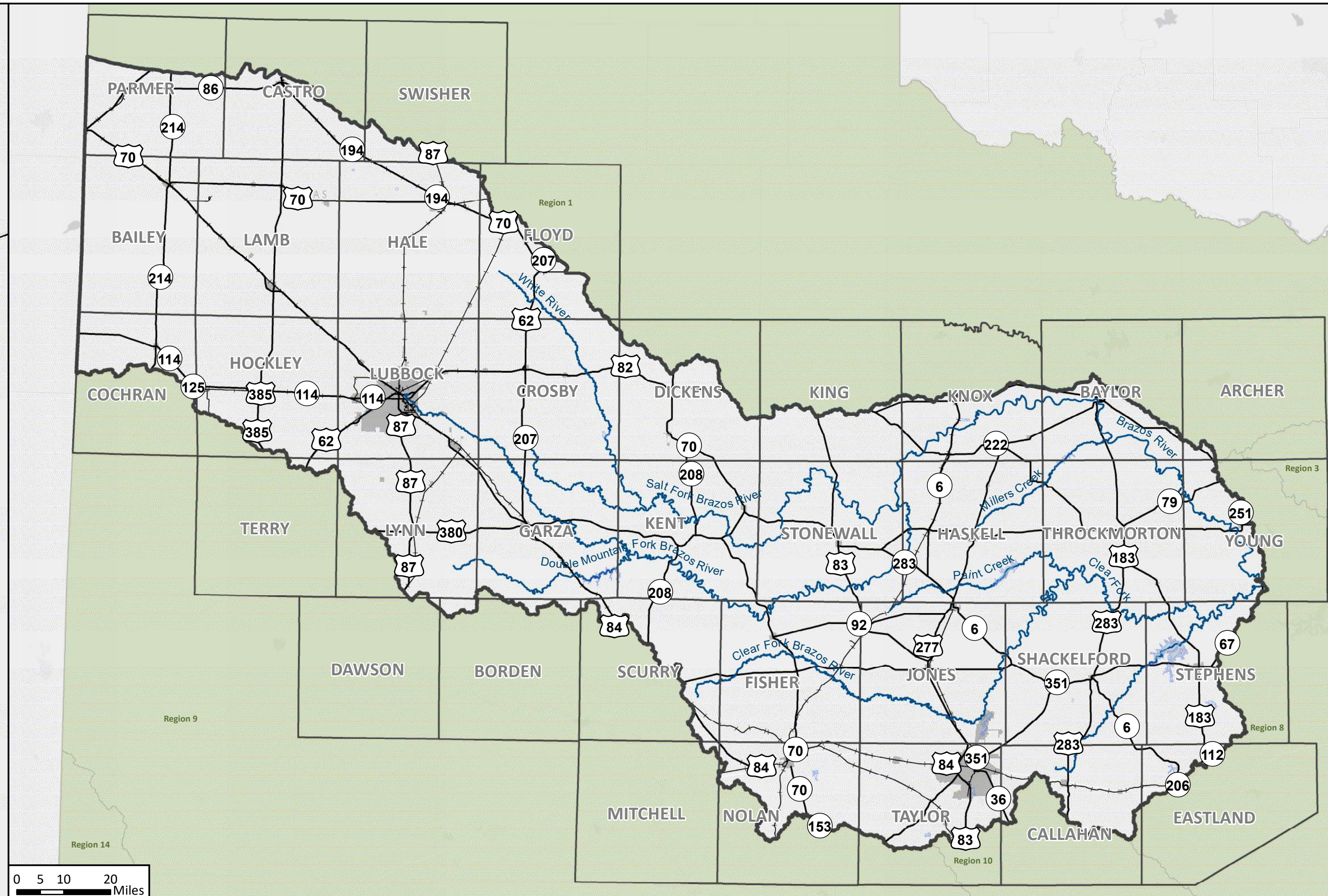


Extent of Potential Flood Management Evaluations and Existing Mapping Needs

MAP 16
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

12/27/2022

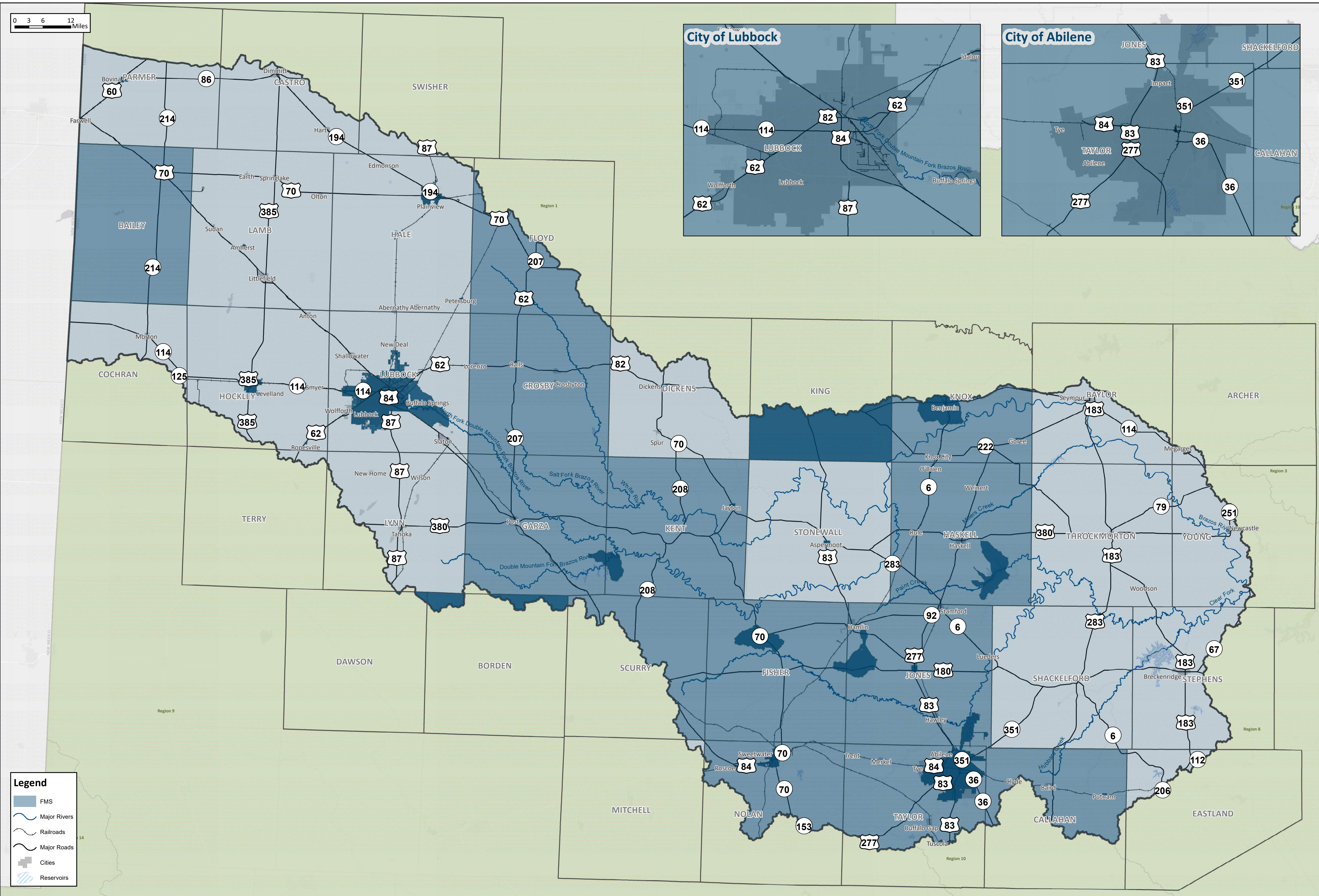
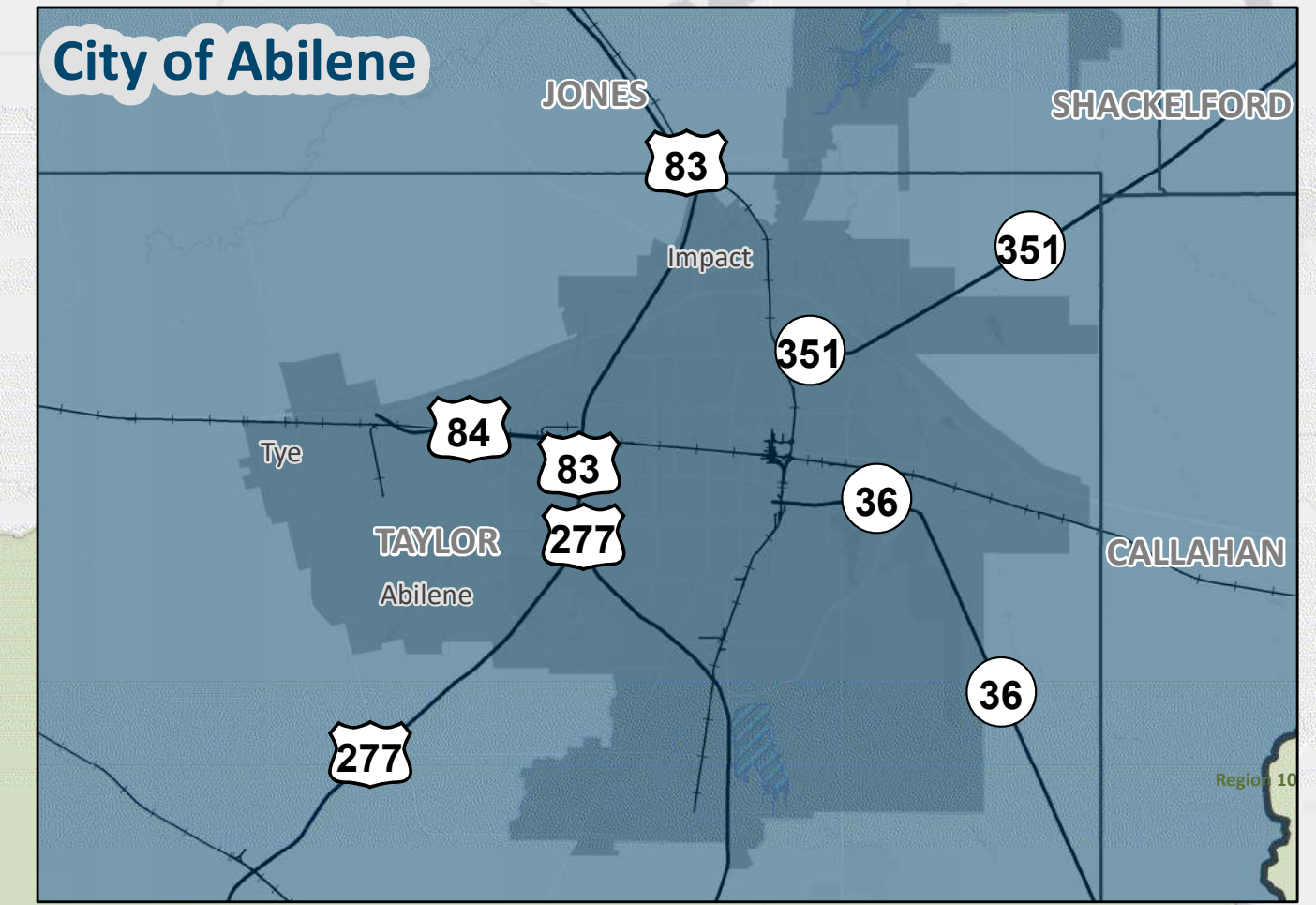
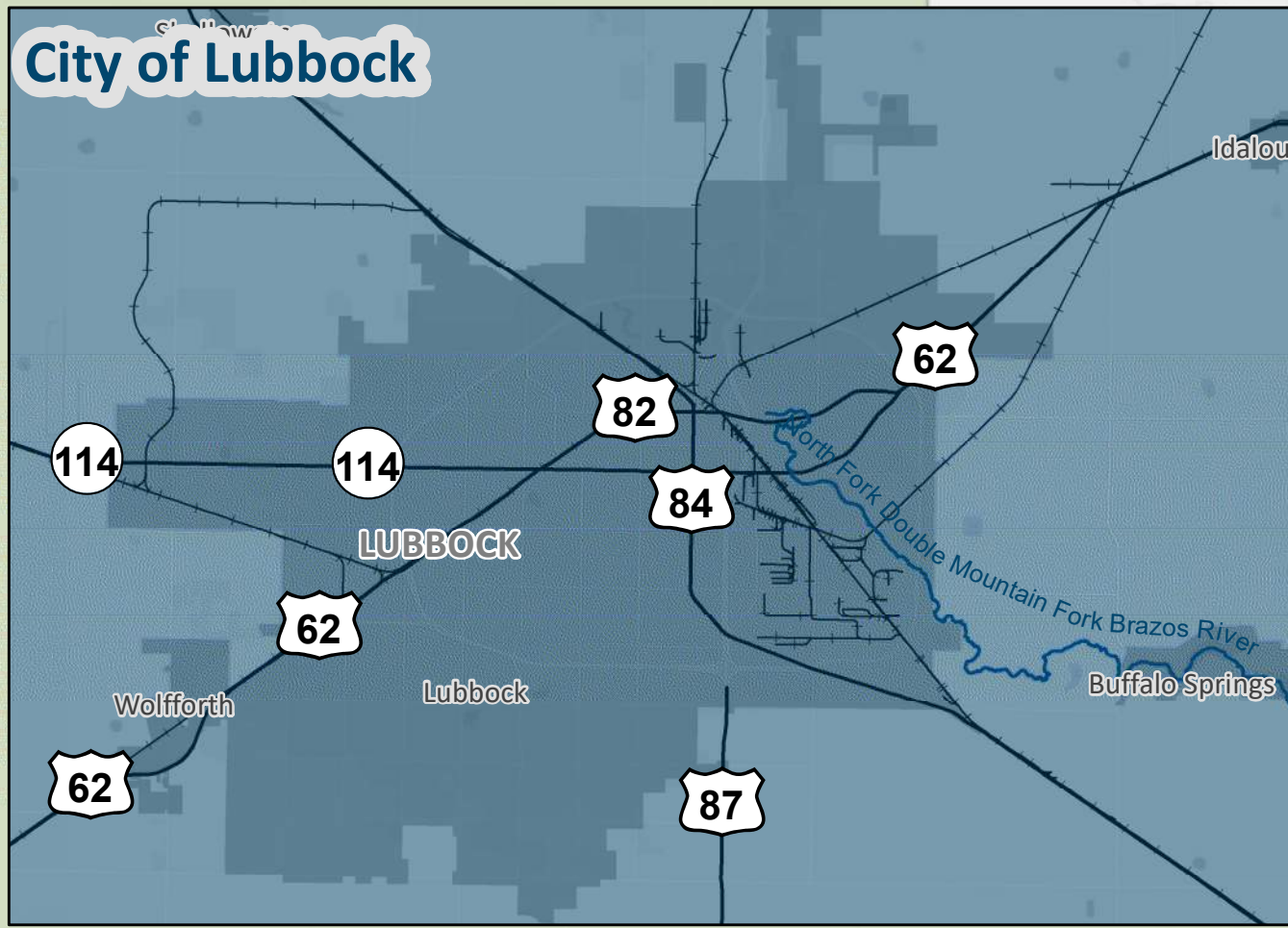


- Legend**
- FMP Extent
 - Major Rivers
 - Major Roads
 - Railroads
 - Cities
 - Reservoirs



Extent of Potential Flood Mitigation Projects

0 3 6 12 Miles



Legend

- FMS
- Major Rivers
- Railroads
- Major Roads
- Cities
- Reservoirs



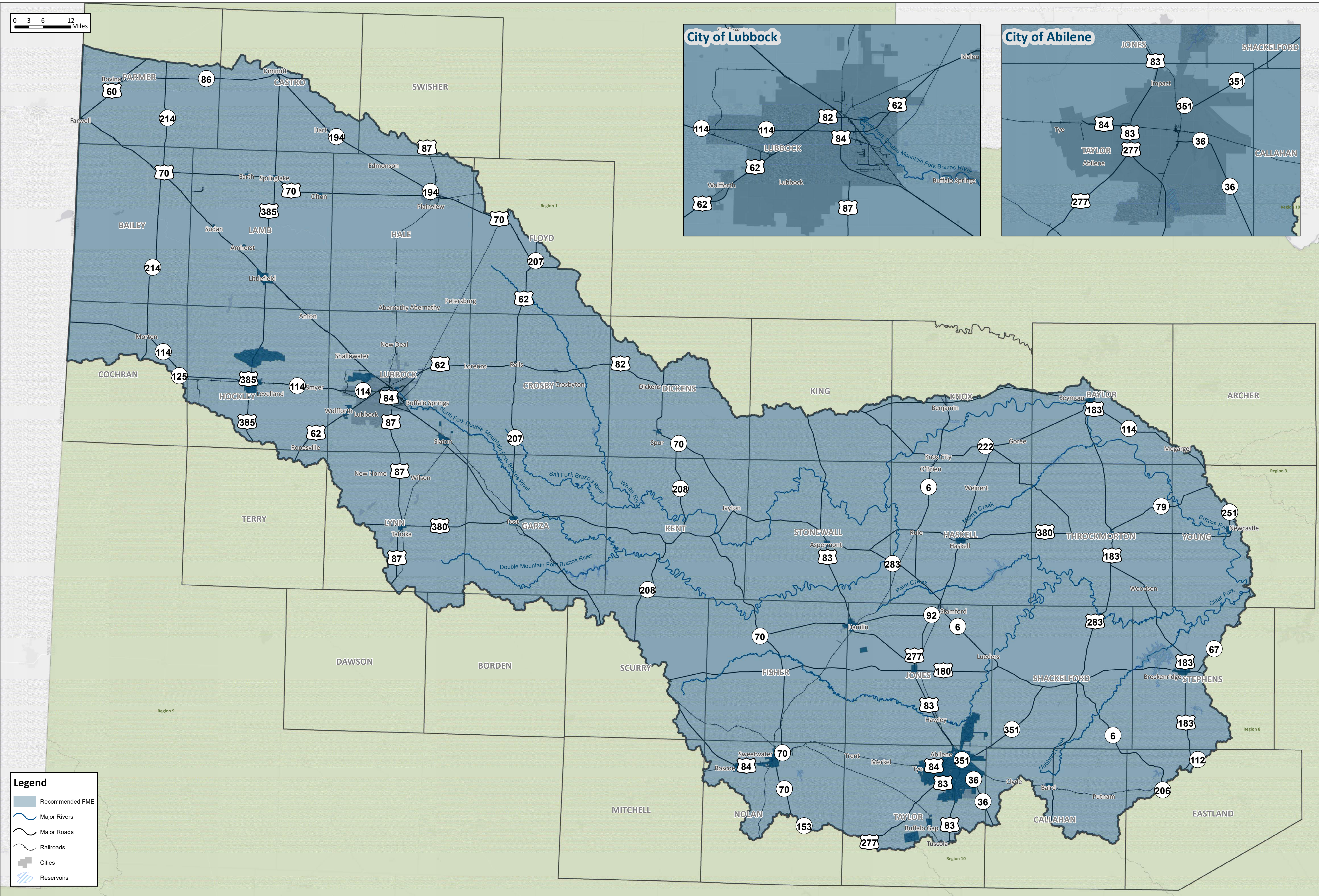
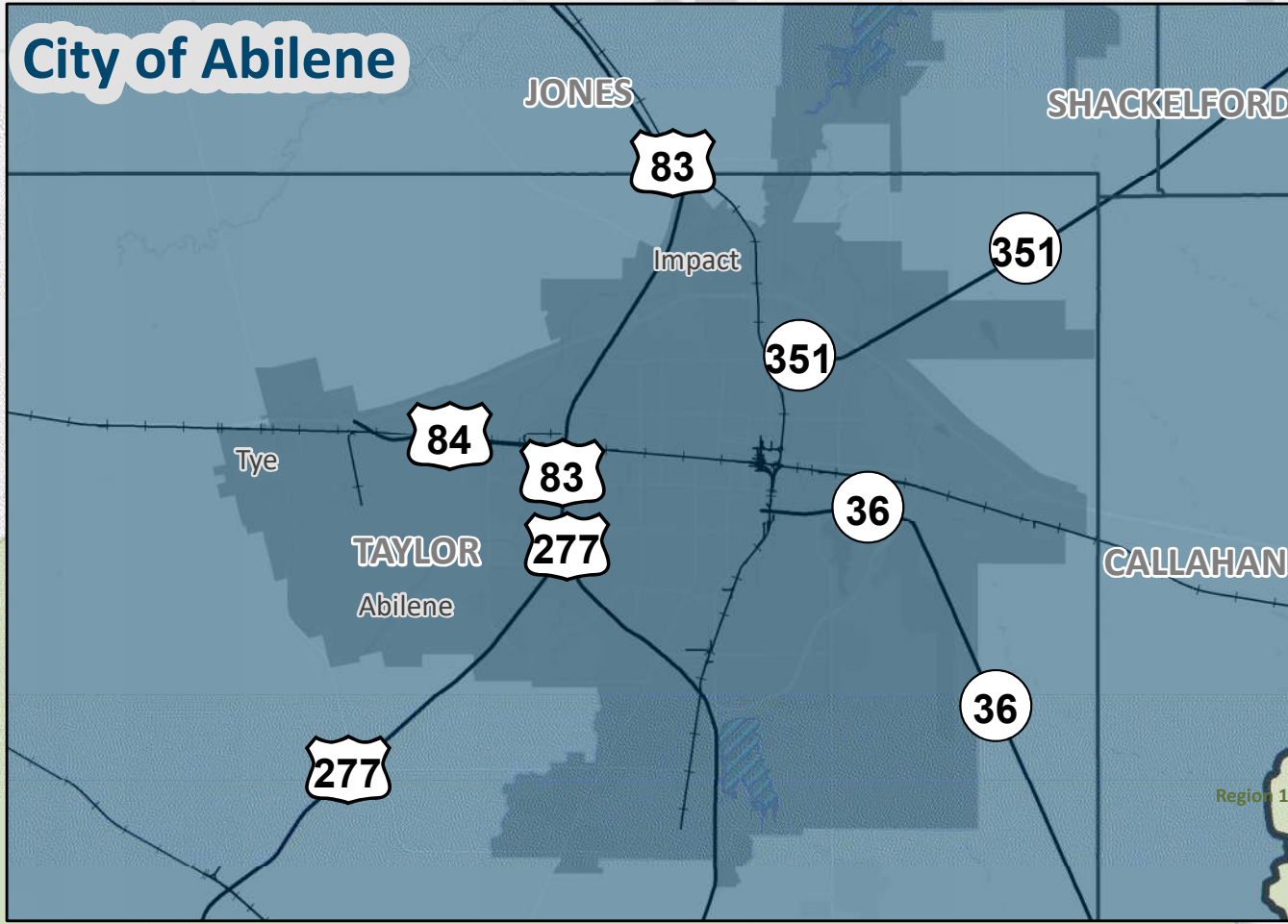
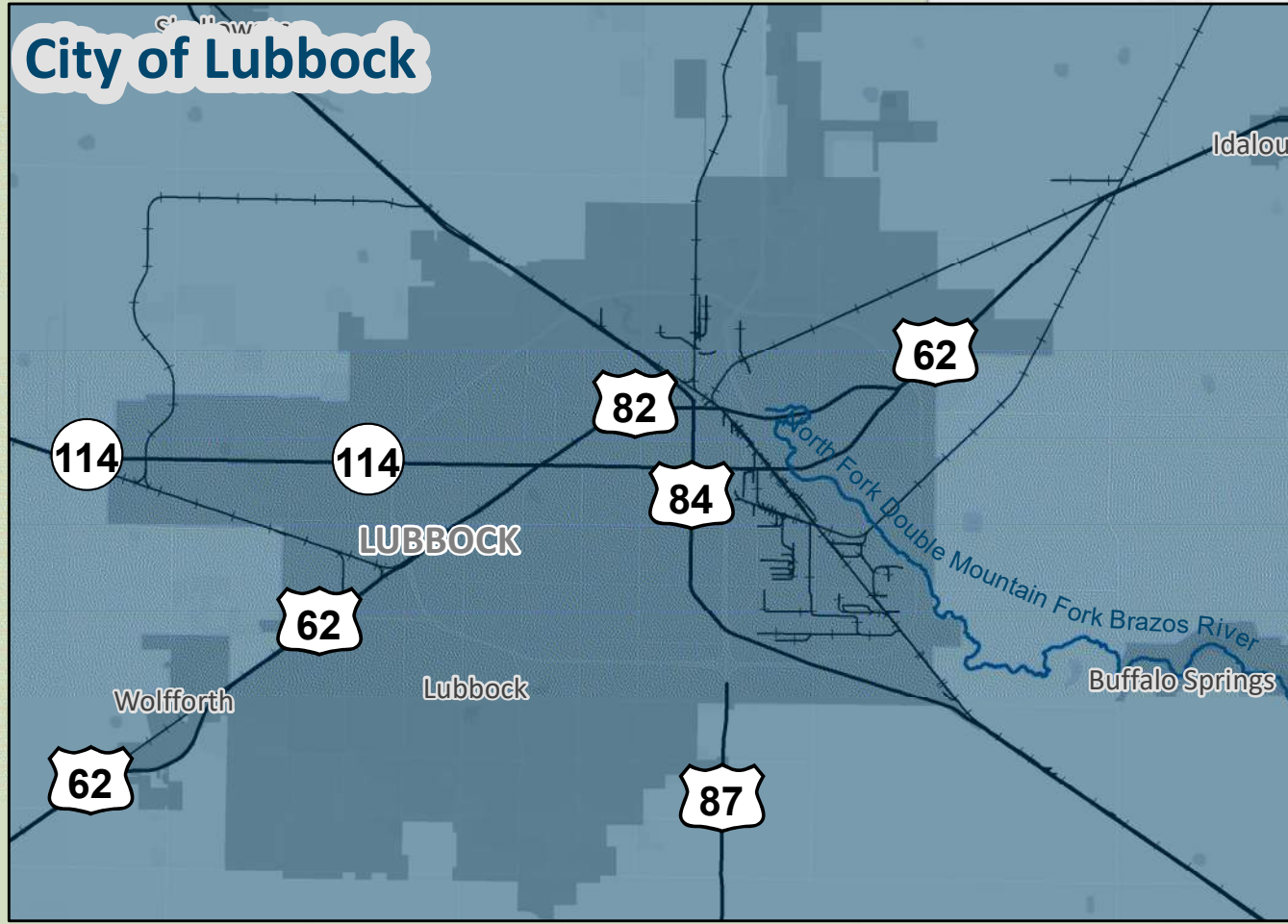
Potential Flood Management Strategies Extent

MAP 18
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

12/27/2022

0 3 6 12 Miles



Legend

- Recommended FME
- Major Rivers
- Major Roads
- Railroads
- Cities
- Reservoirs



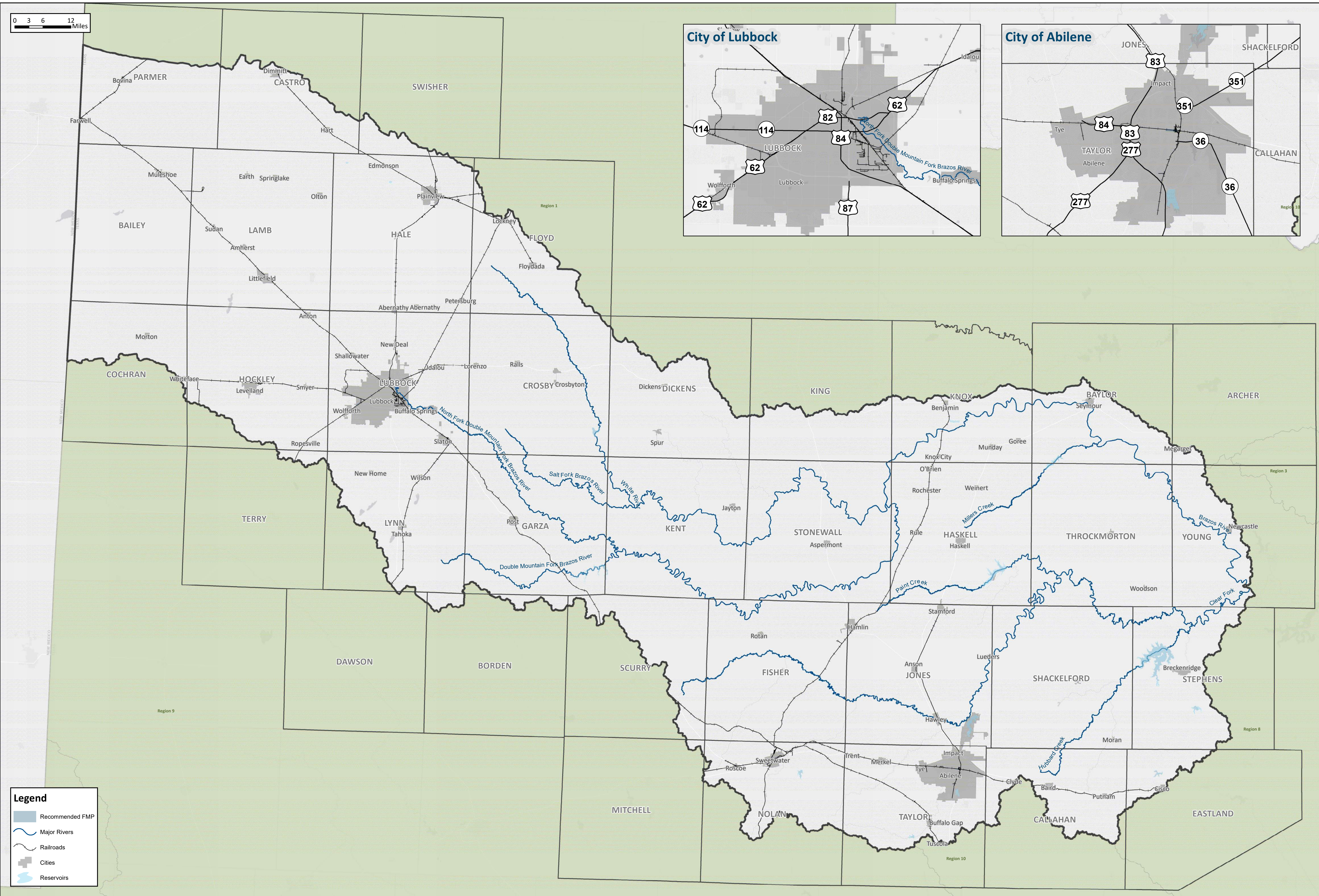
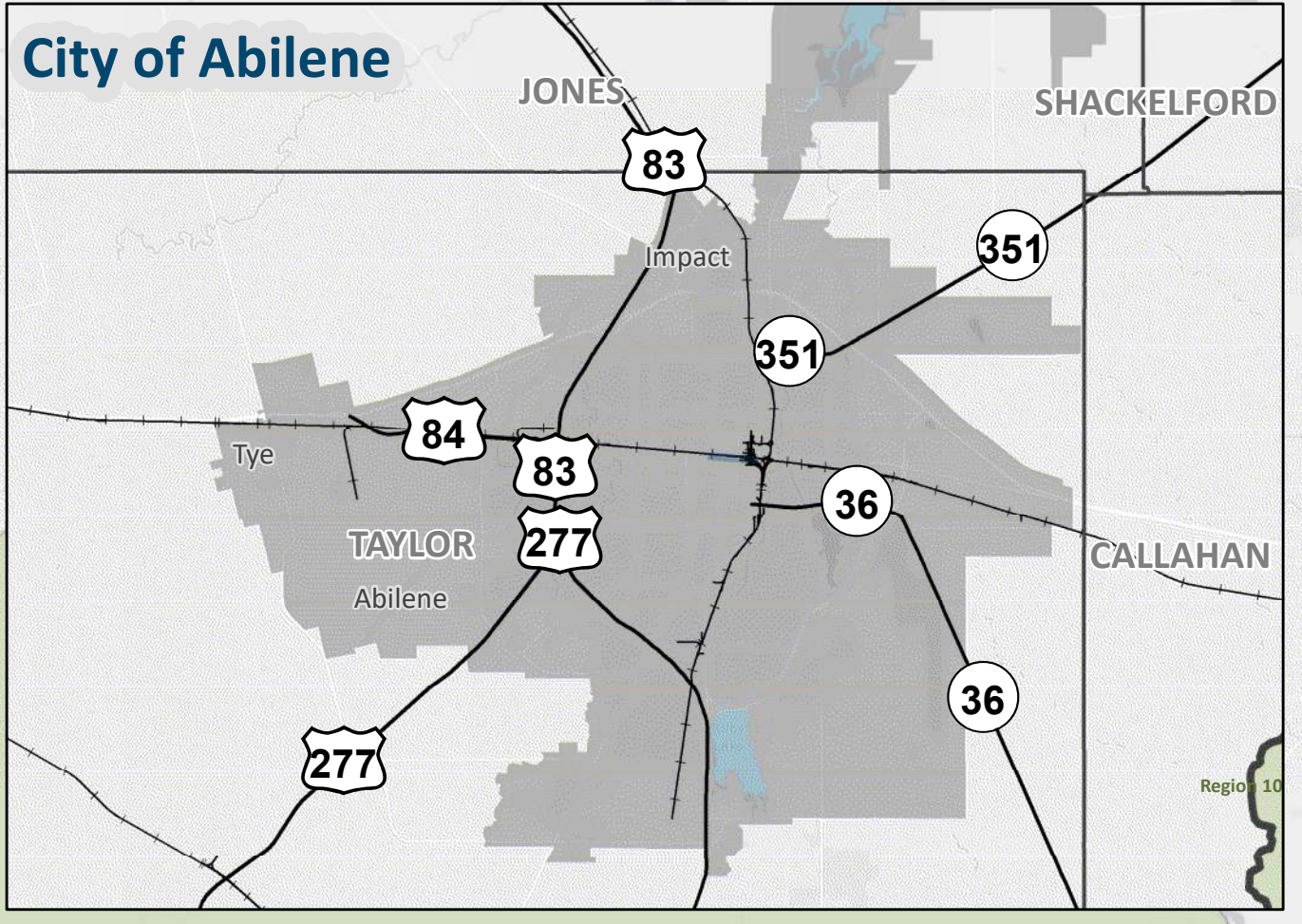
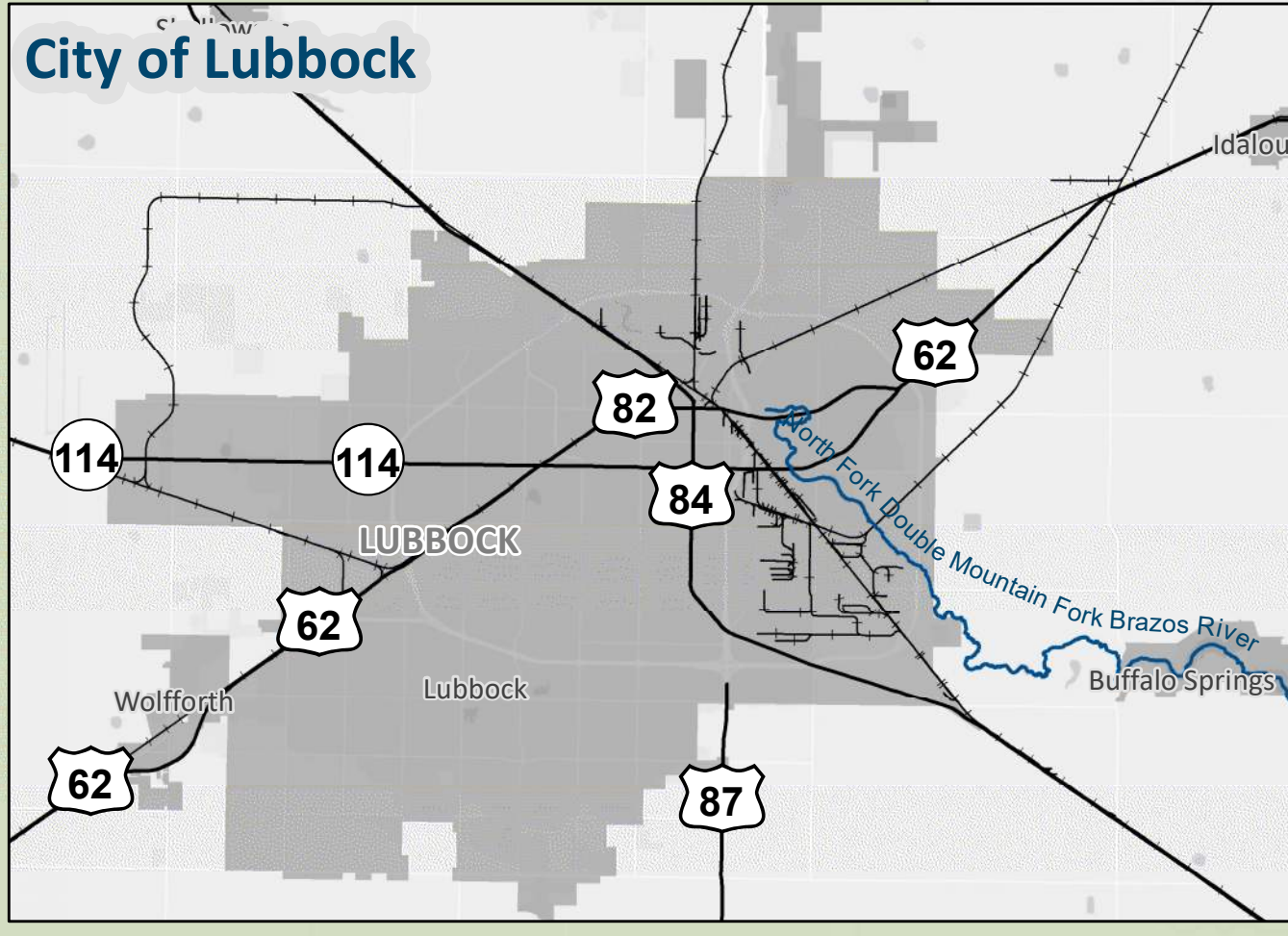
Recommended Flood Management Evaluations

MAP 19
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

12/27/2022

0 3 6 12 Miles



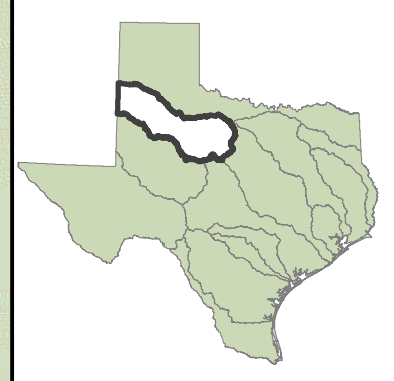
Legend

- Recommended FMP
- Major Rivers
- Railroads
- Cities
- Reservoirs

Recommended Flood Mitigation Projects

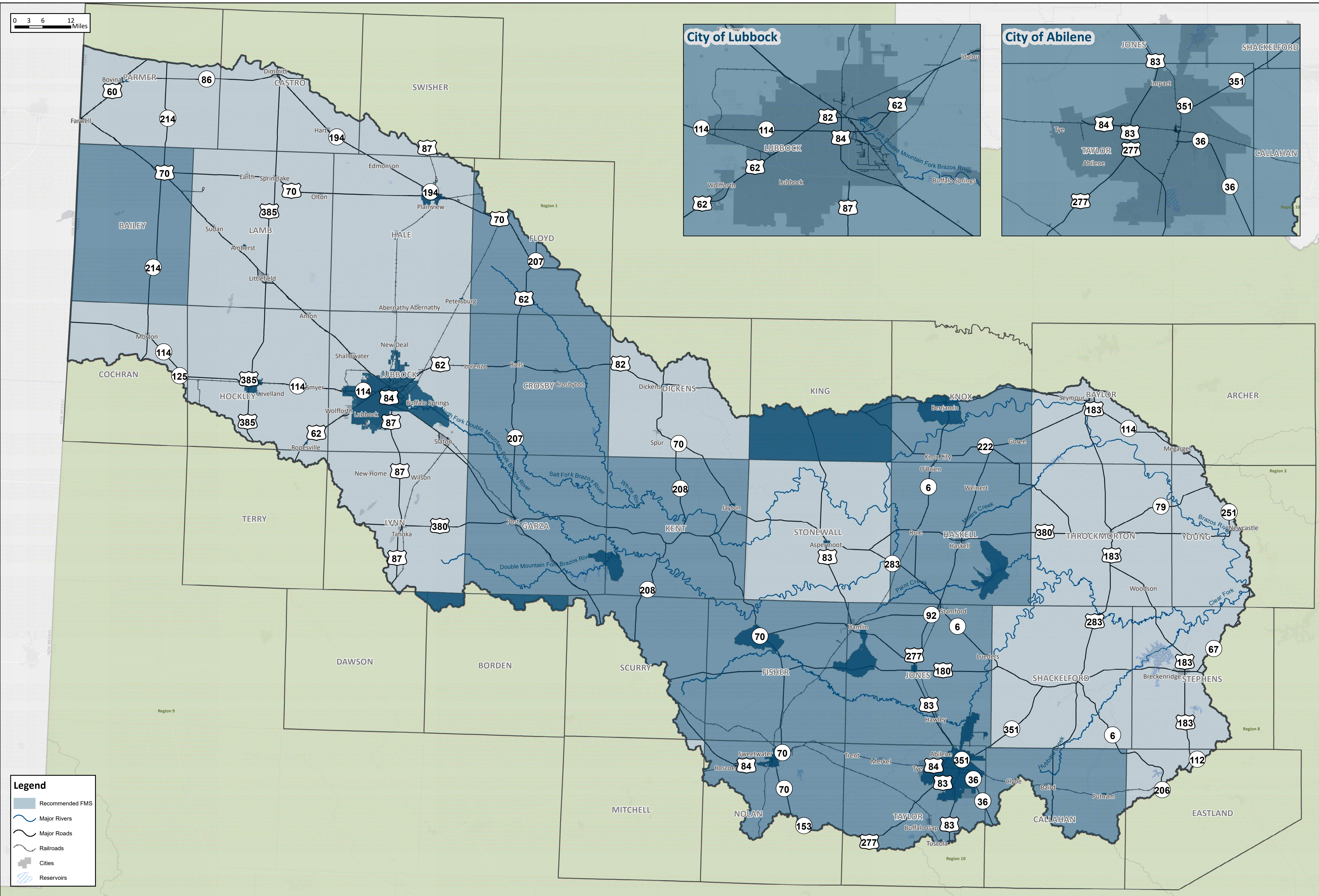
MAP 20
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



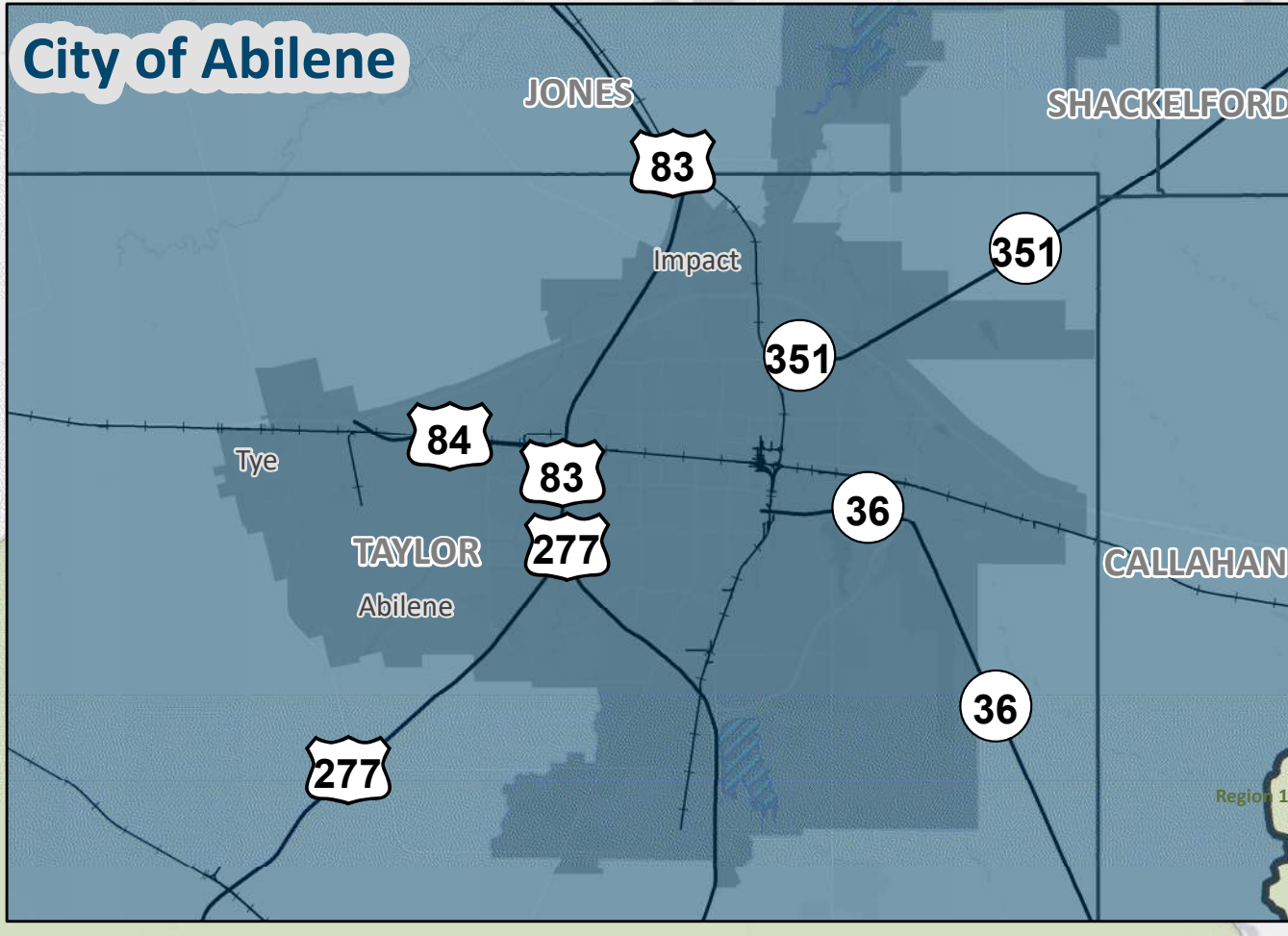
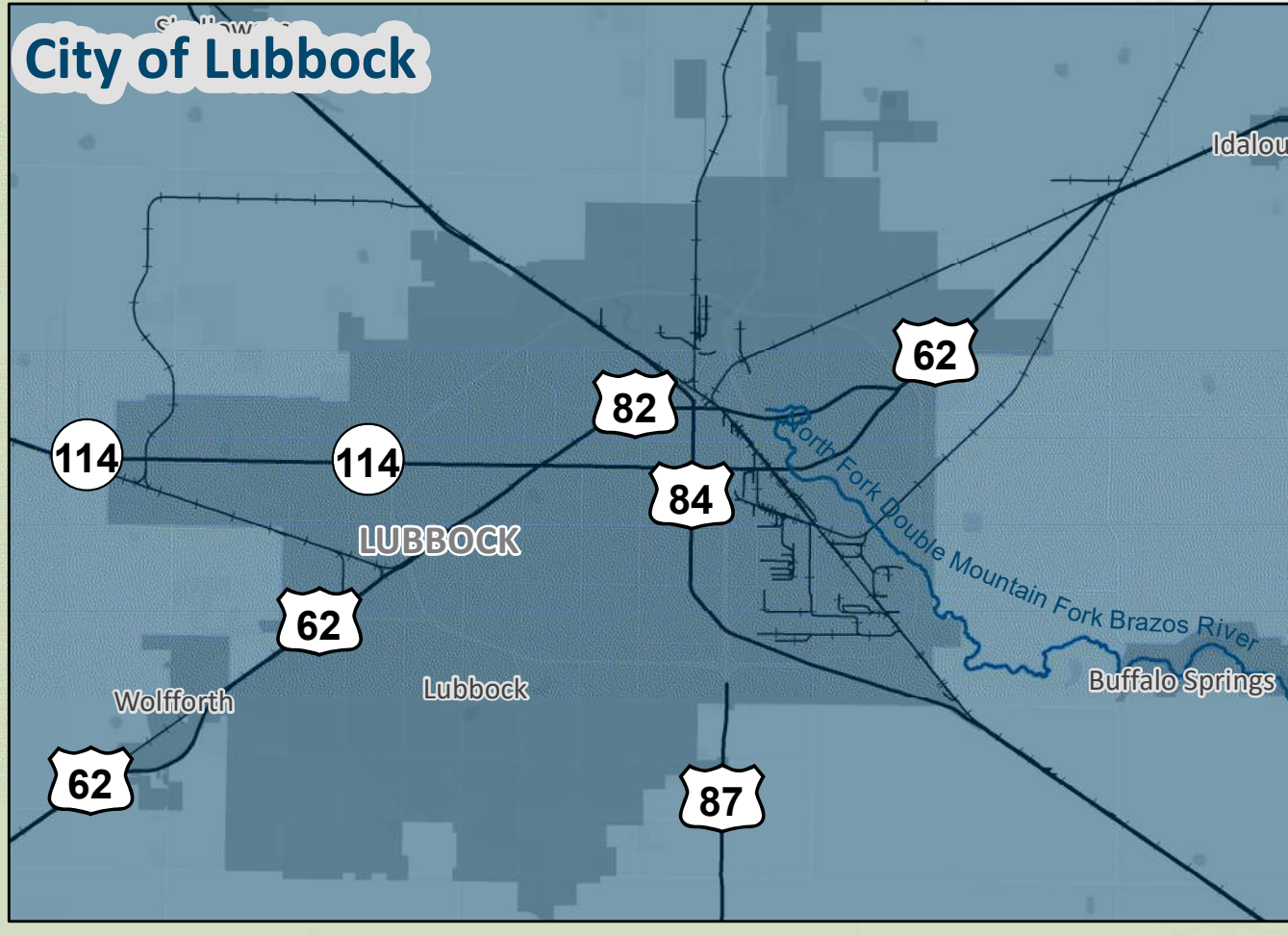
12/27/2022

0 3 6 12 Miles



Legend

- Recommended FMS
- Major Rivers
- Major Roads
- Railroads
- Cities
- Reservoirs



Recommended Flood Management Strategies

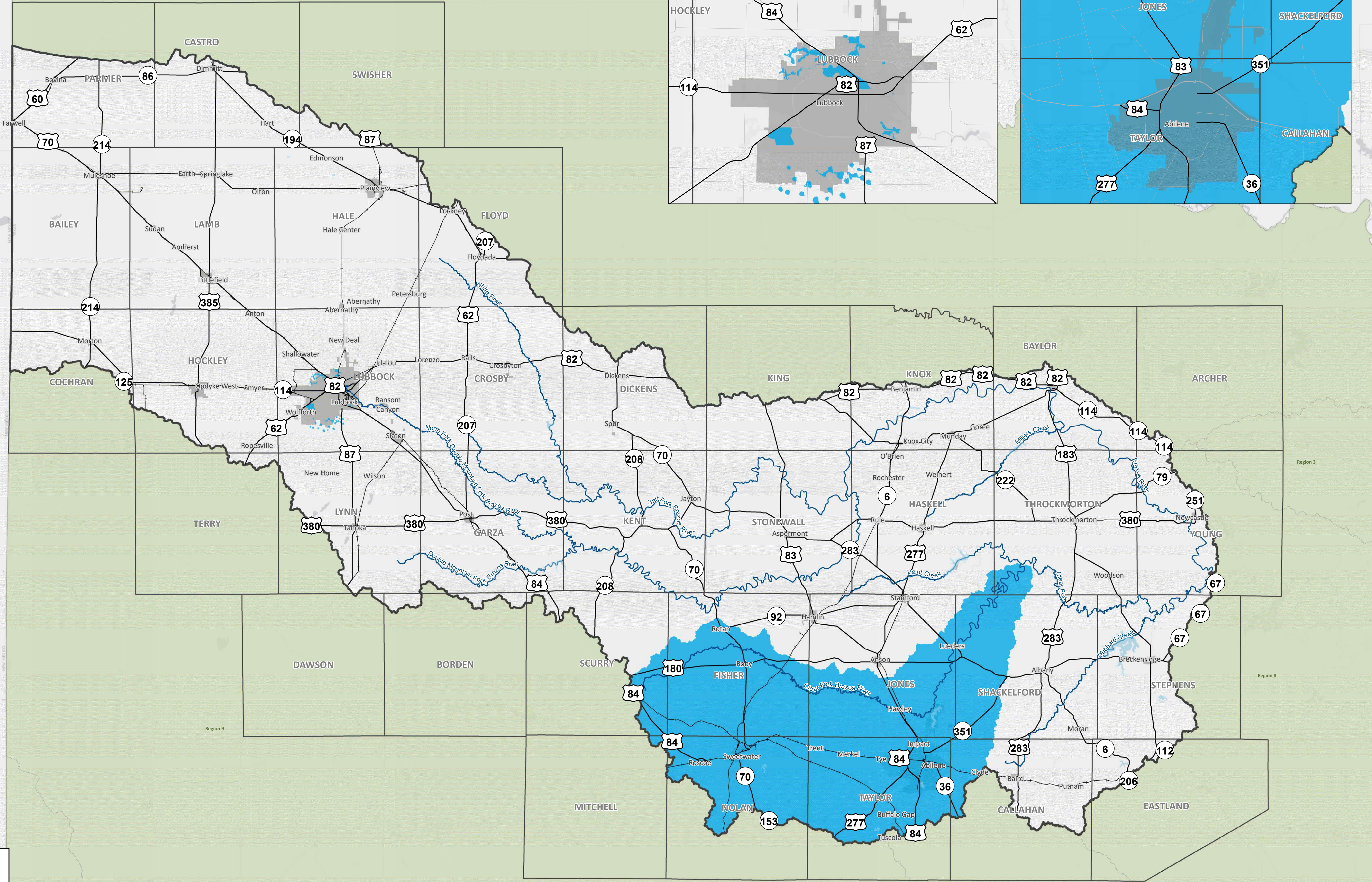
MAP 21

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

Region 7

12/27/2022

0 3 6 12 Miles



Legend

- Major Rivers
- Major Roadways
- Available Models

MAP 22
Region 7

Model Coverage
REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



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