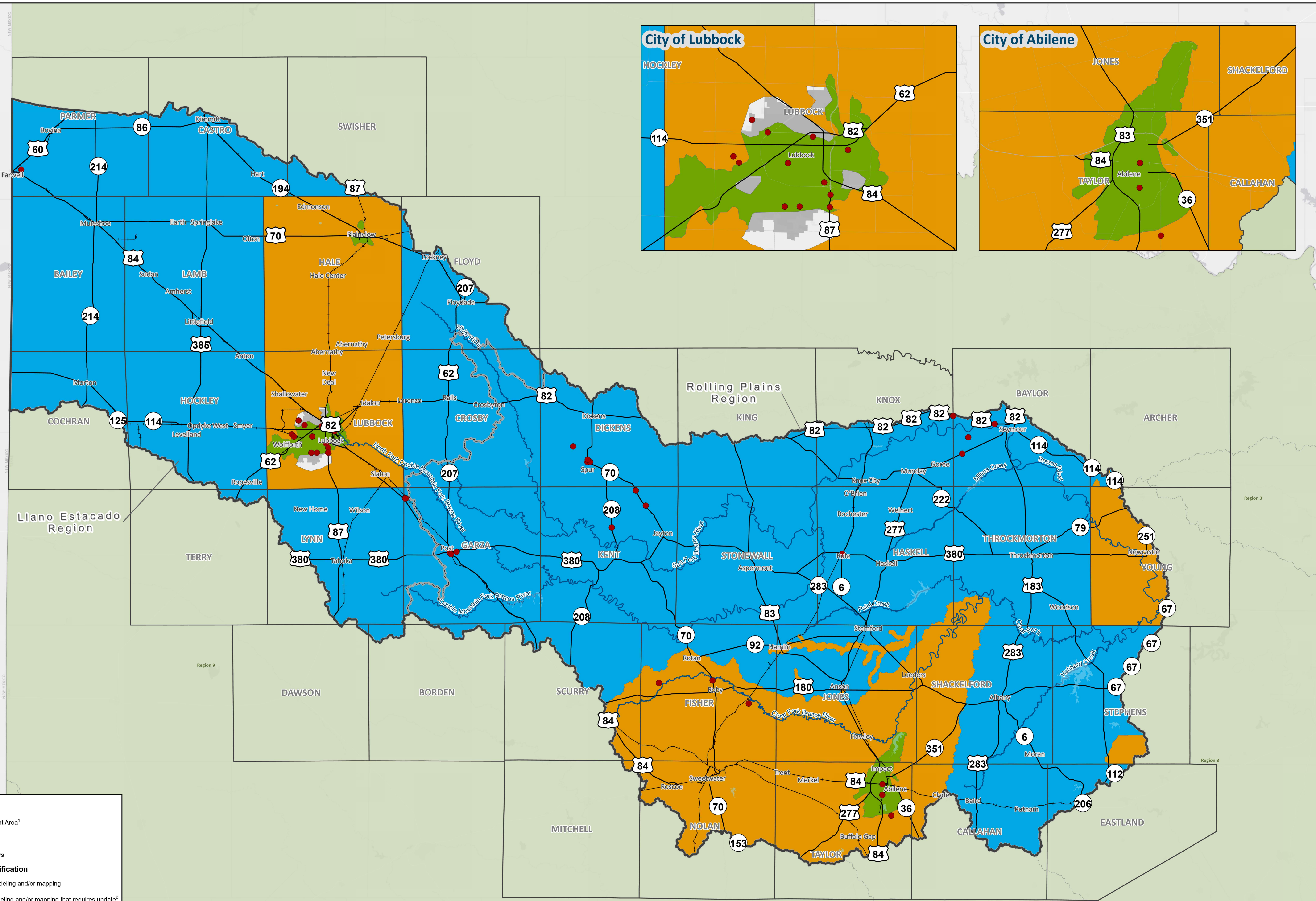


0 3 6 12 Miles



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- Clearly outdated modeling and/or mapping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.

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

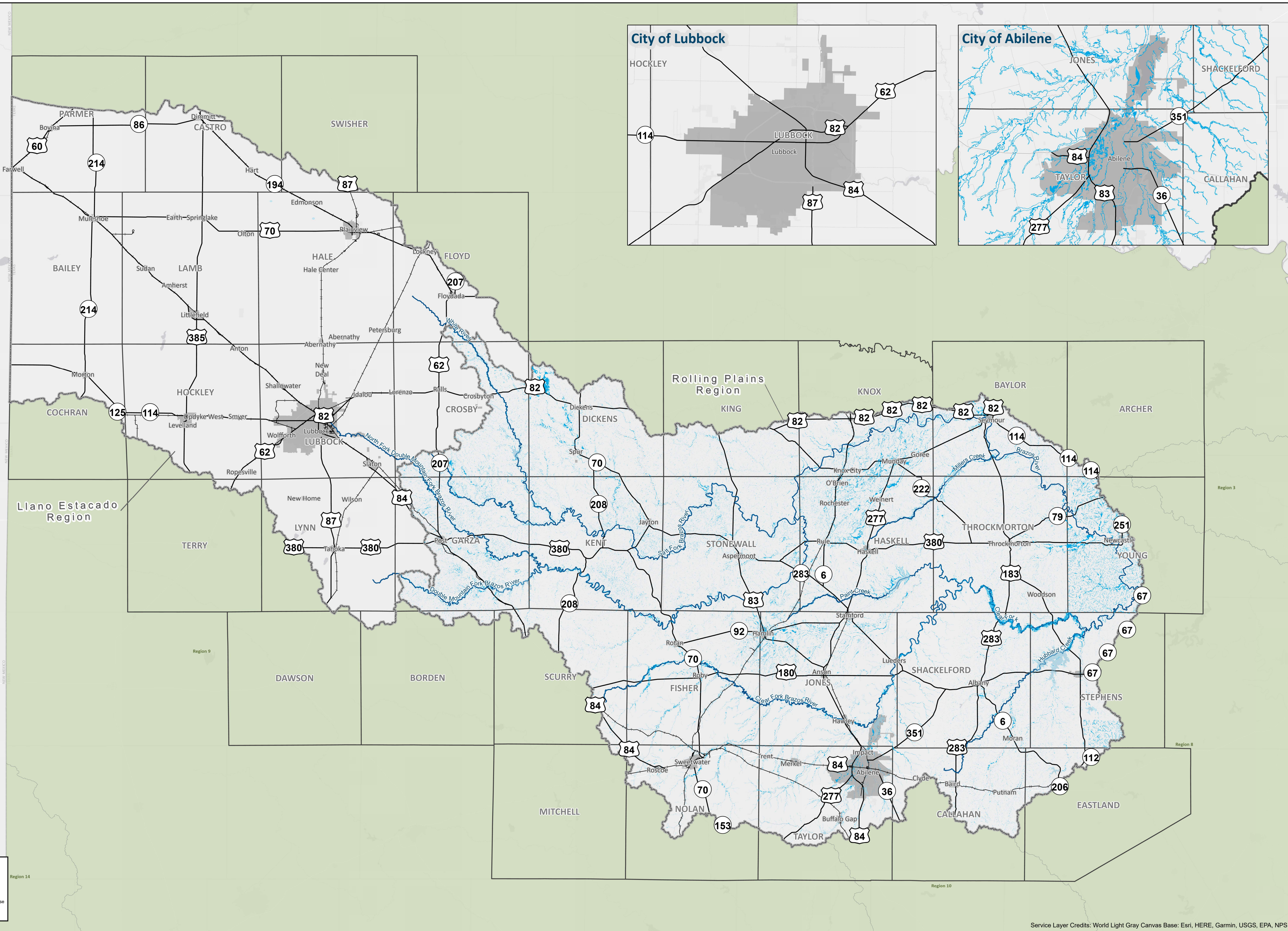


Future Condition Flood Hazard -
 Gaps in Inundation Boundary Mapping and Identify Known Flood-Prone Areas
 REGION 7 UPPER BRAZOS
 2023 REGIONAL FLOOD PLAN

MAP 9
 Region 7

6/16/2023

0 3 6 12 Miles



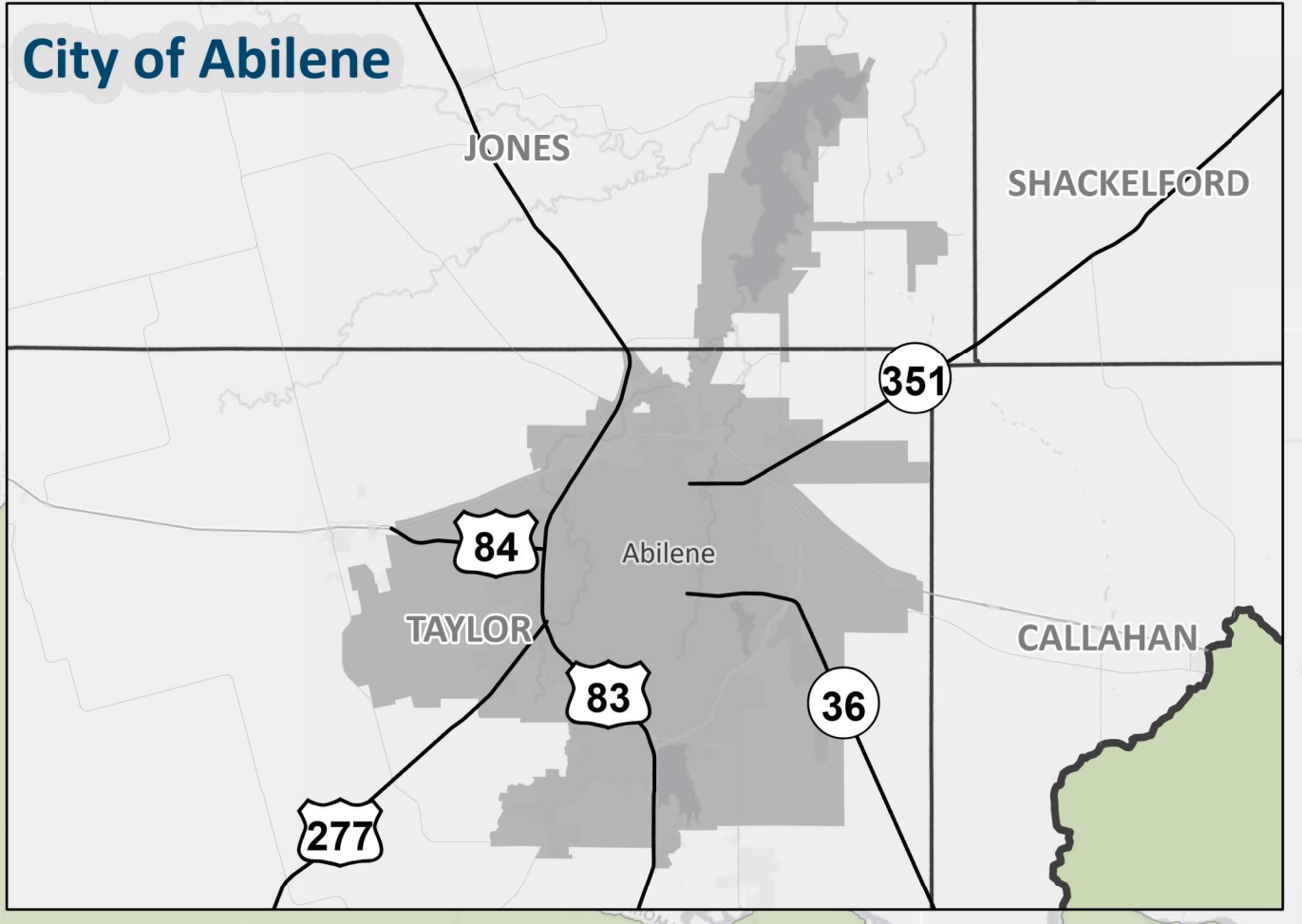
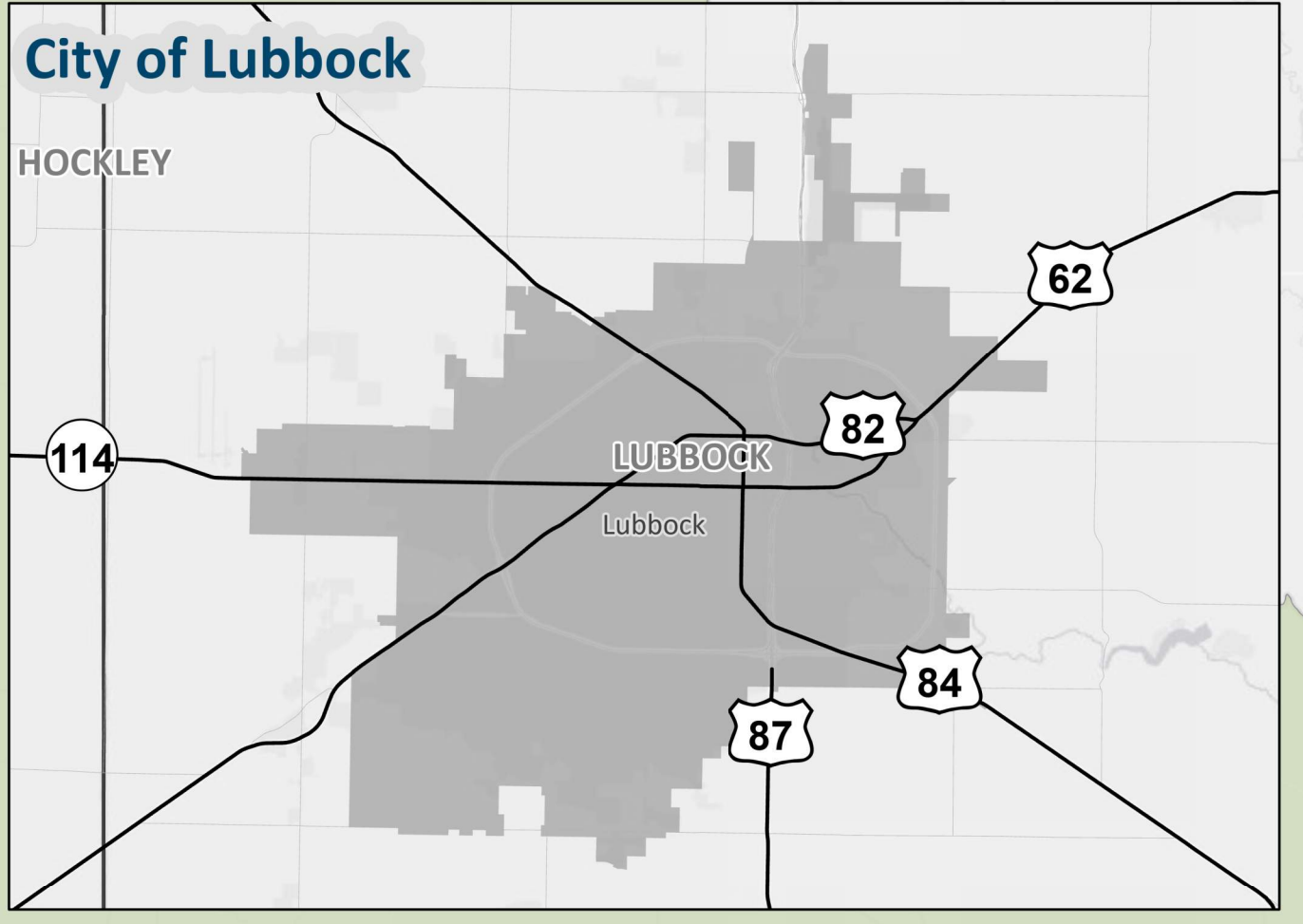
Legend

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



Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

0 3 6 12 Miles



No Extent Increase

Legend

- Major Rivers
- Major Roadways
- Caprock



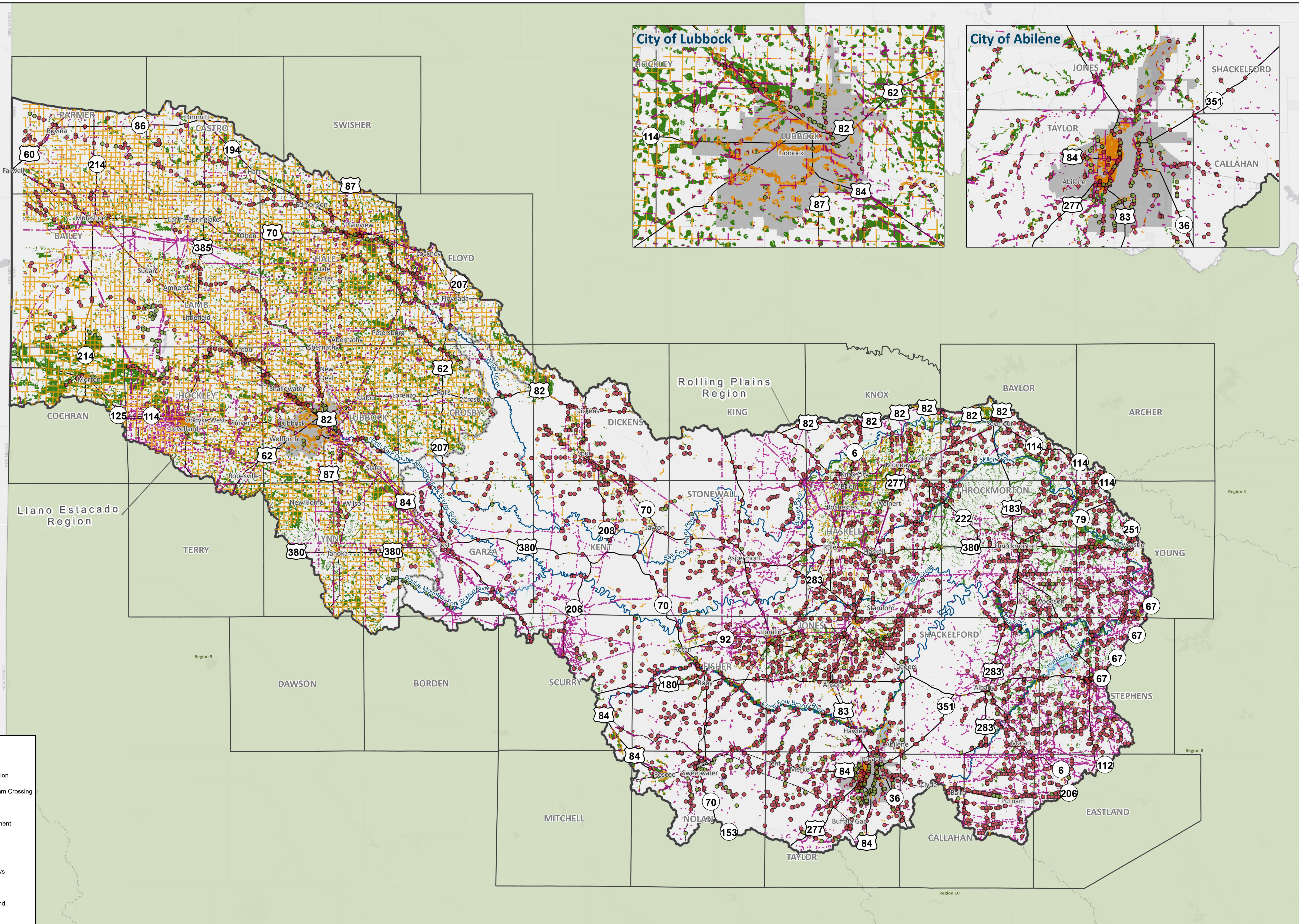
Future Flood Hazard Increase Extent - 0.2%

MAP 10
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

0 3 6 12 Miles



Legend

Exposure Type

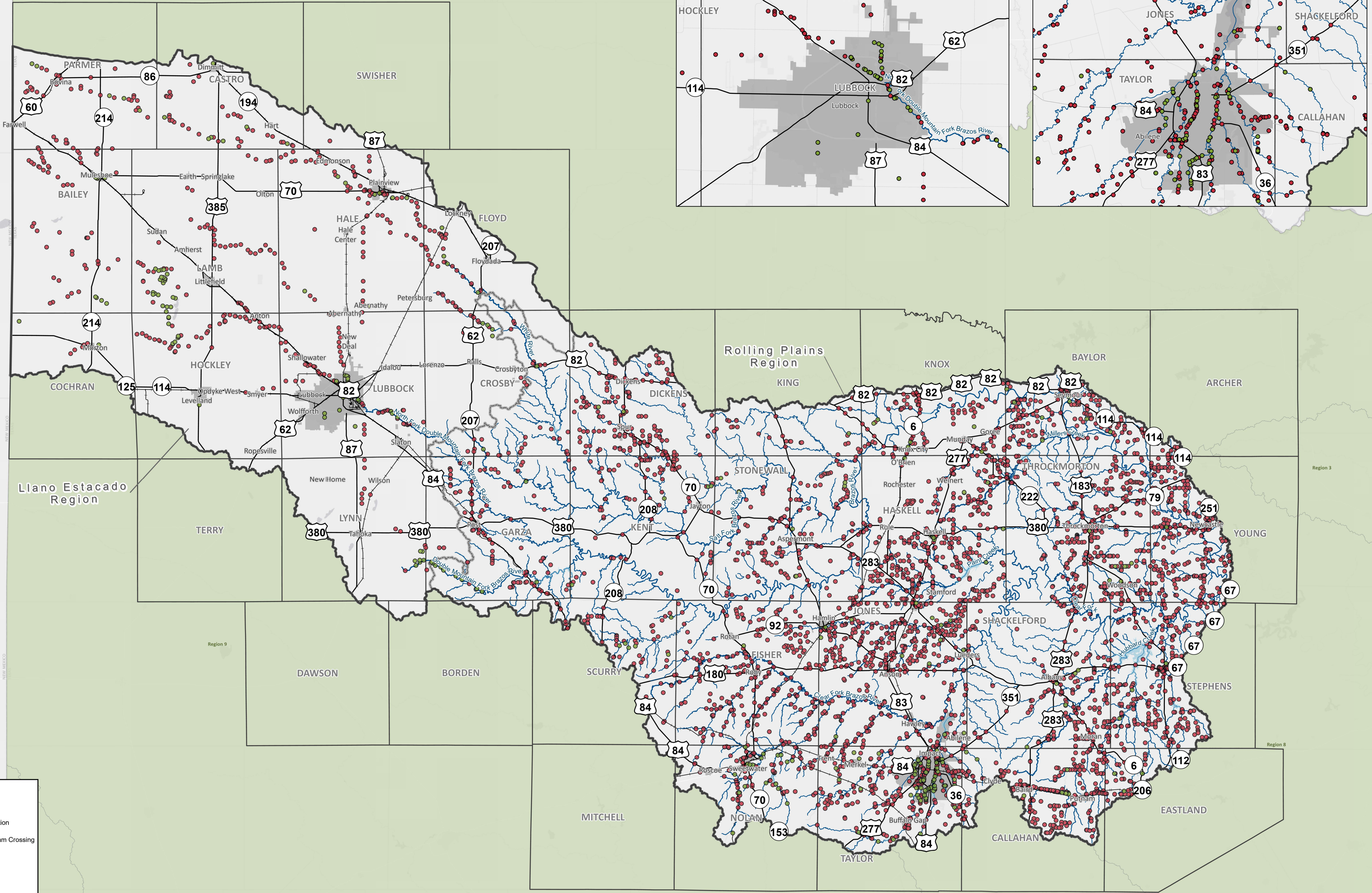
- Power Generation
- Roadway Stream Crossing
- Other¹
- Roadway Segment
- Other²
- Major Rivers
- Major Roadways
- Buildings
- Agricultural Land
- Caprock

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.

MAP 11
Region 7
Future Condition Flood Exposure
 REGION 7 UPPER BRAZOS
 2023 REGIONAL FLOOD PLAN

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

0 3 6 12 Miles



Legend

Exposure Type

- Power Generation
- Roadway Stream Crossing
- Other¹

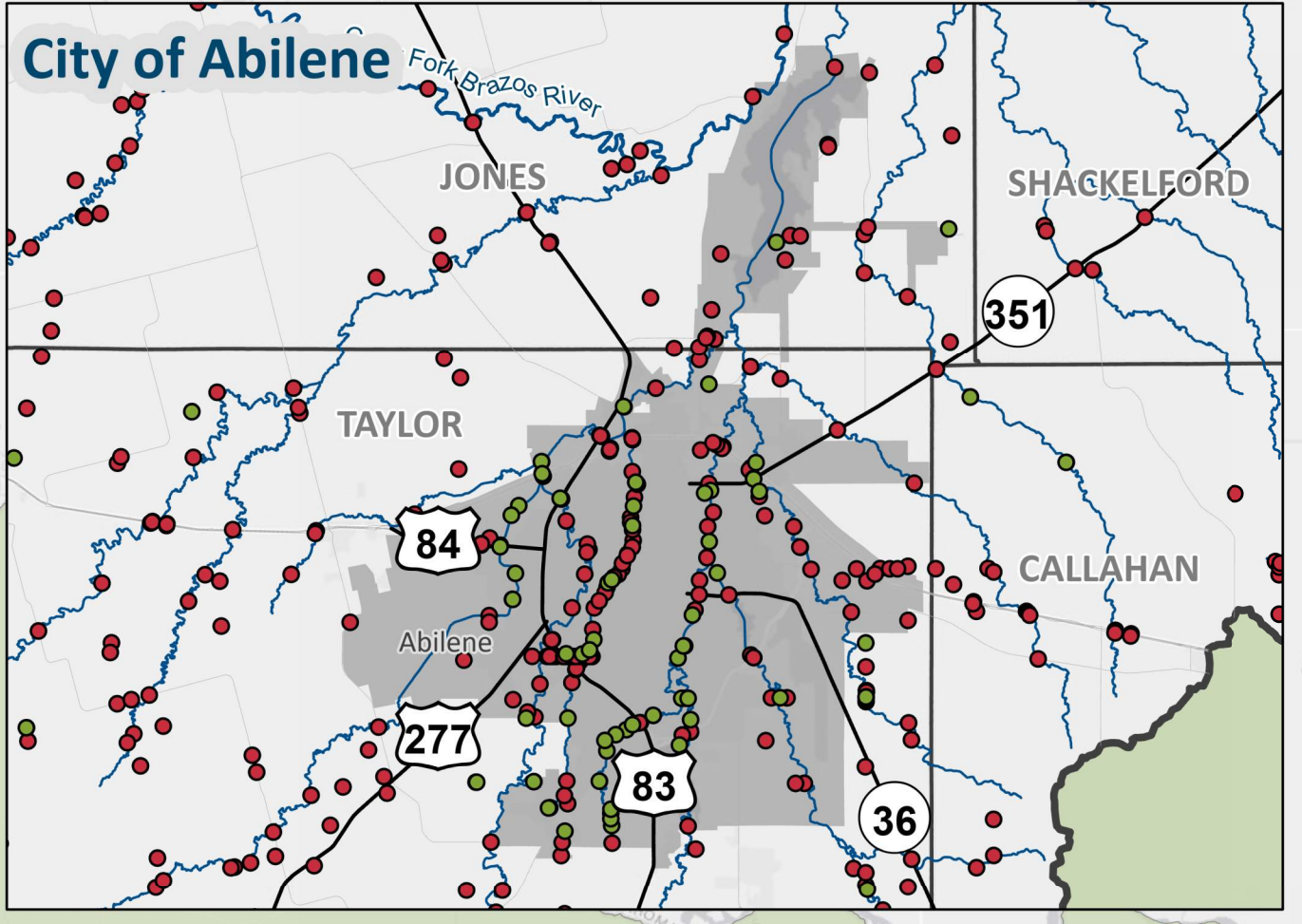
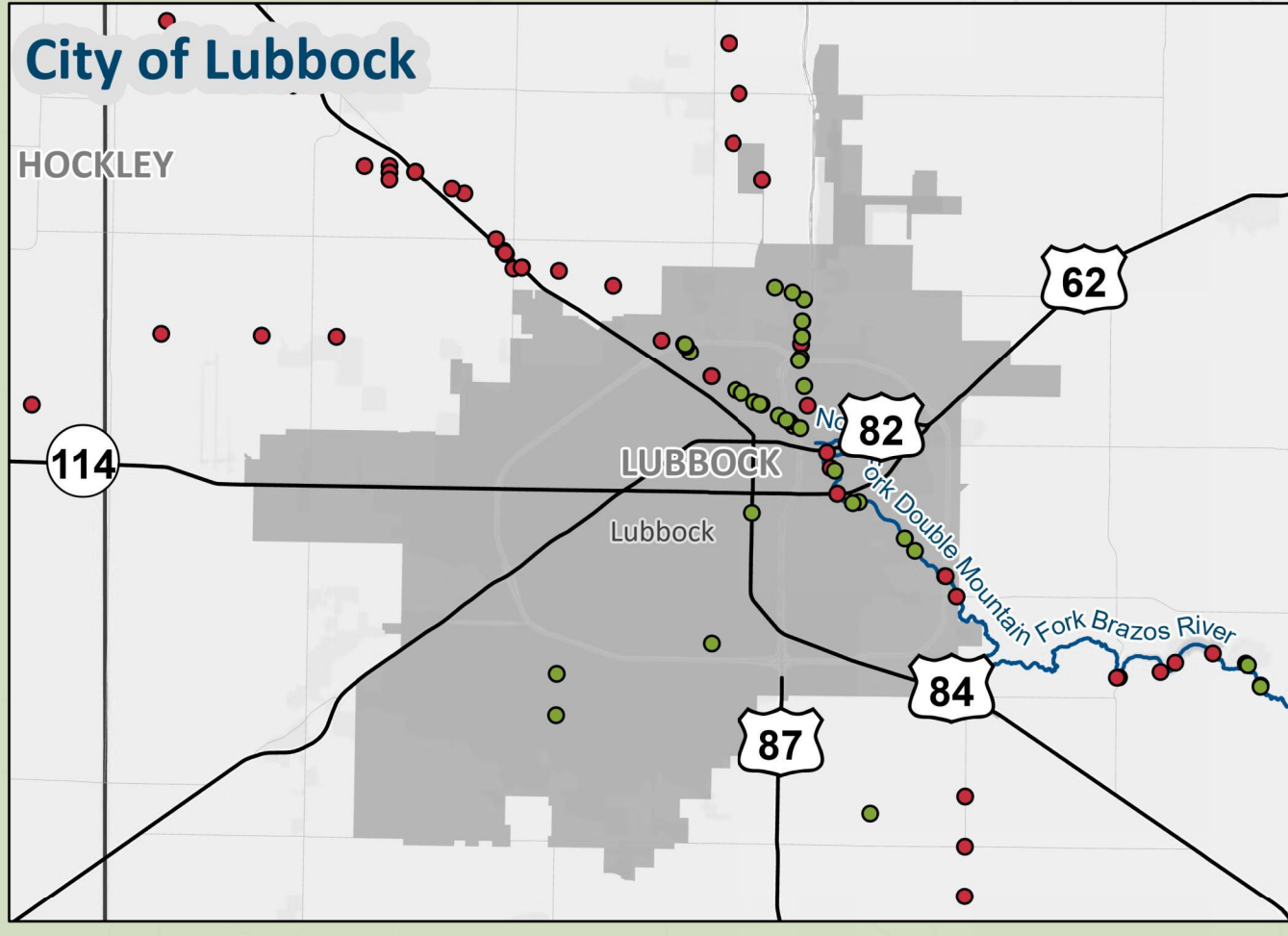
— Major Rivers

— Streams

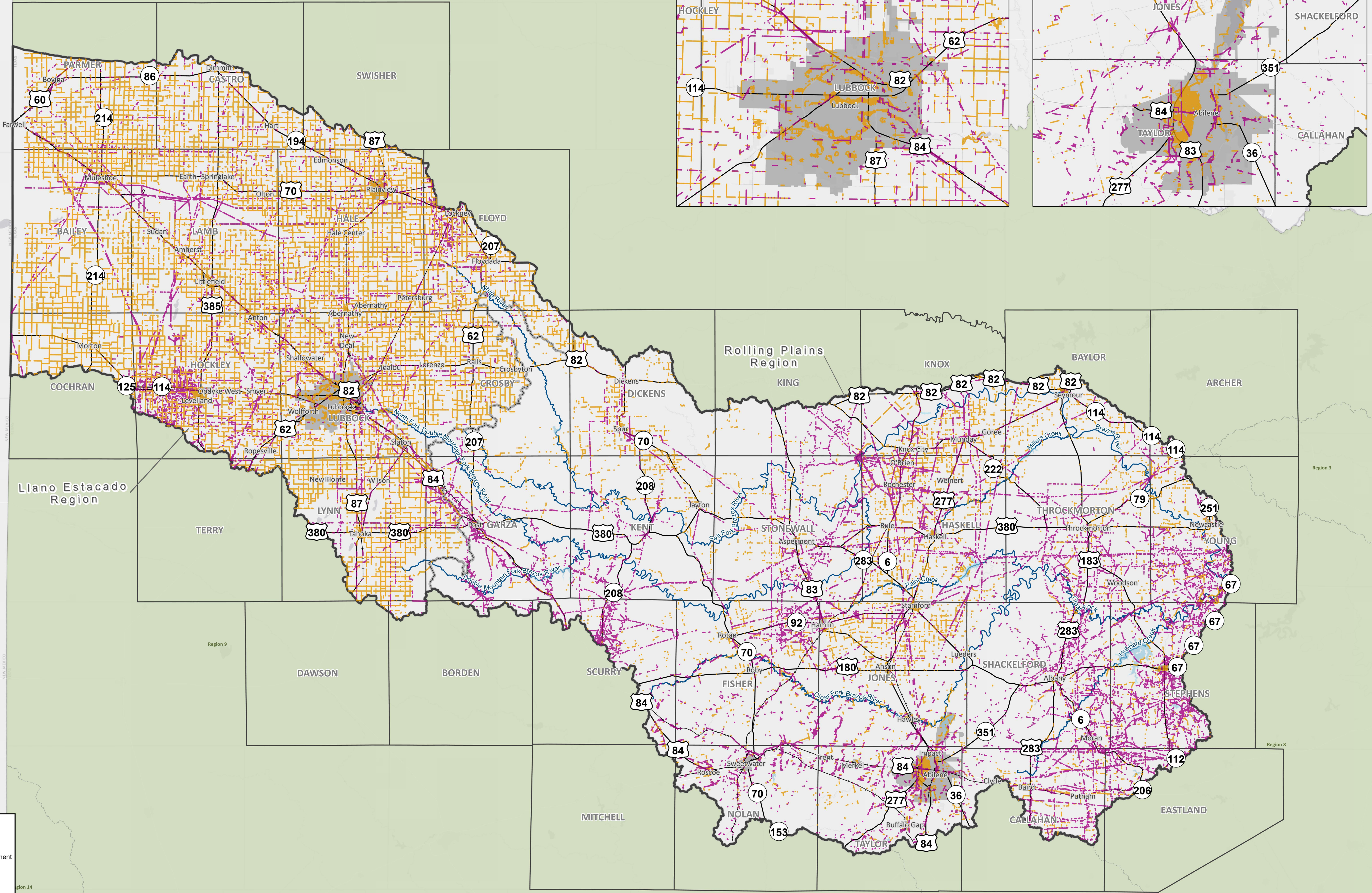
— Major Roadways

▭ Caprock

¹Other exposure types include waste water outfalls, superfund sites, and airports.



0 3 6 12 Miles

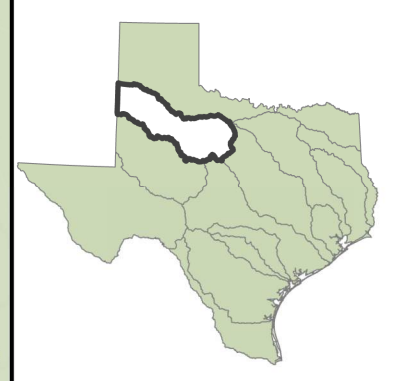
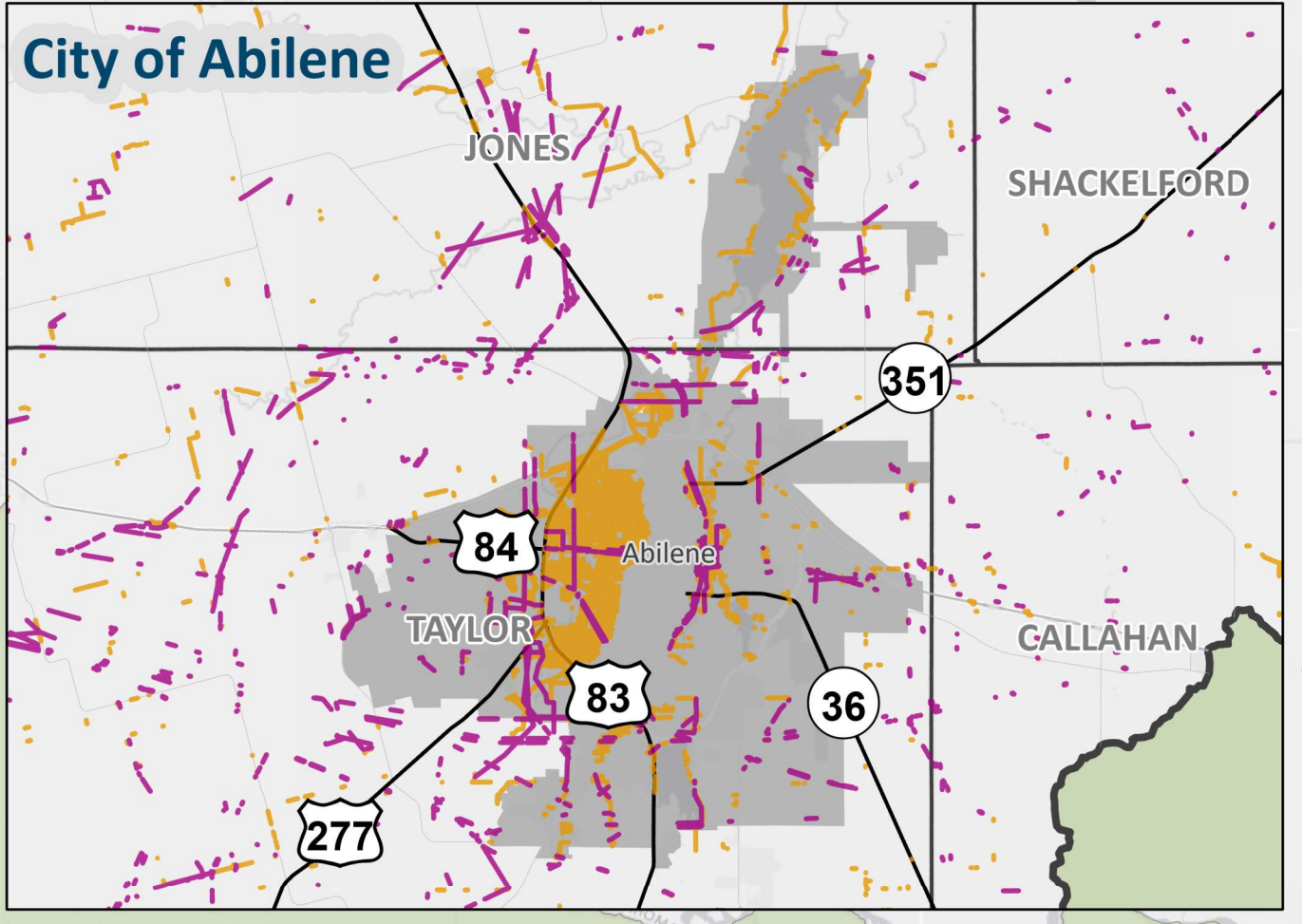
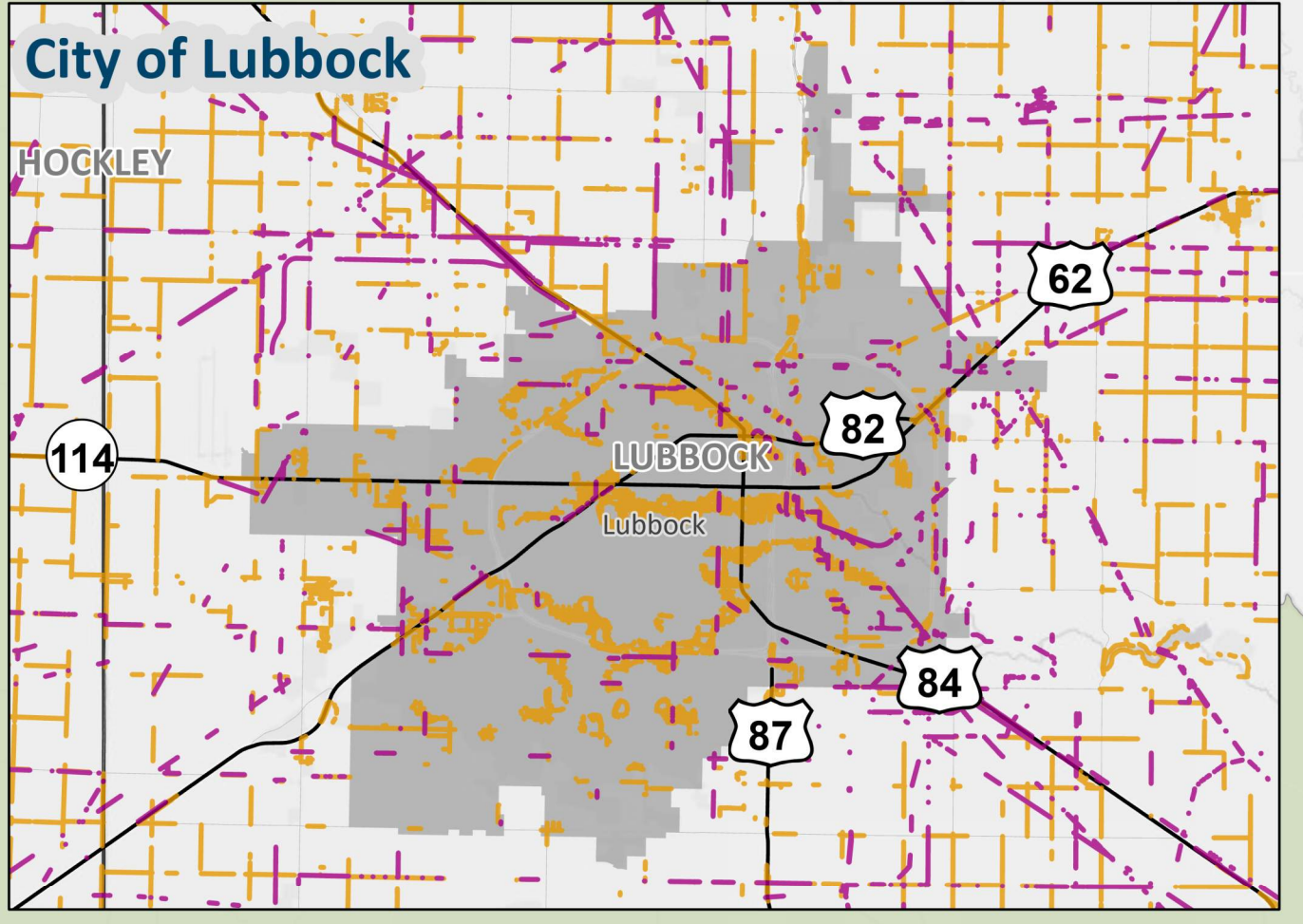


Legend

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.



Future Condition Flood Exposure

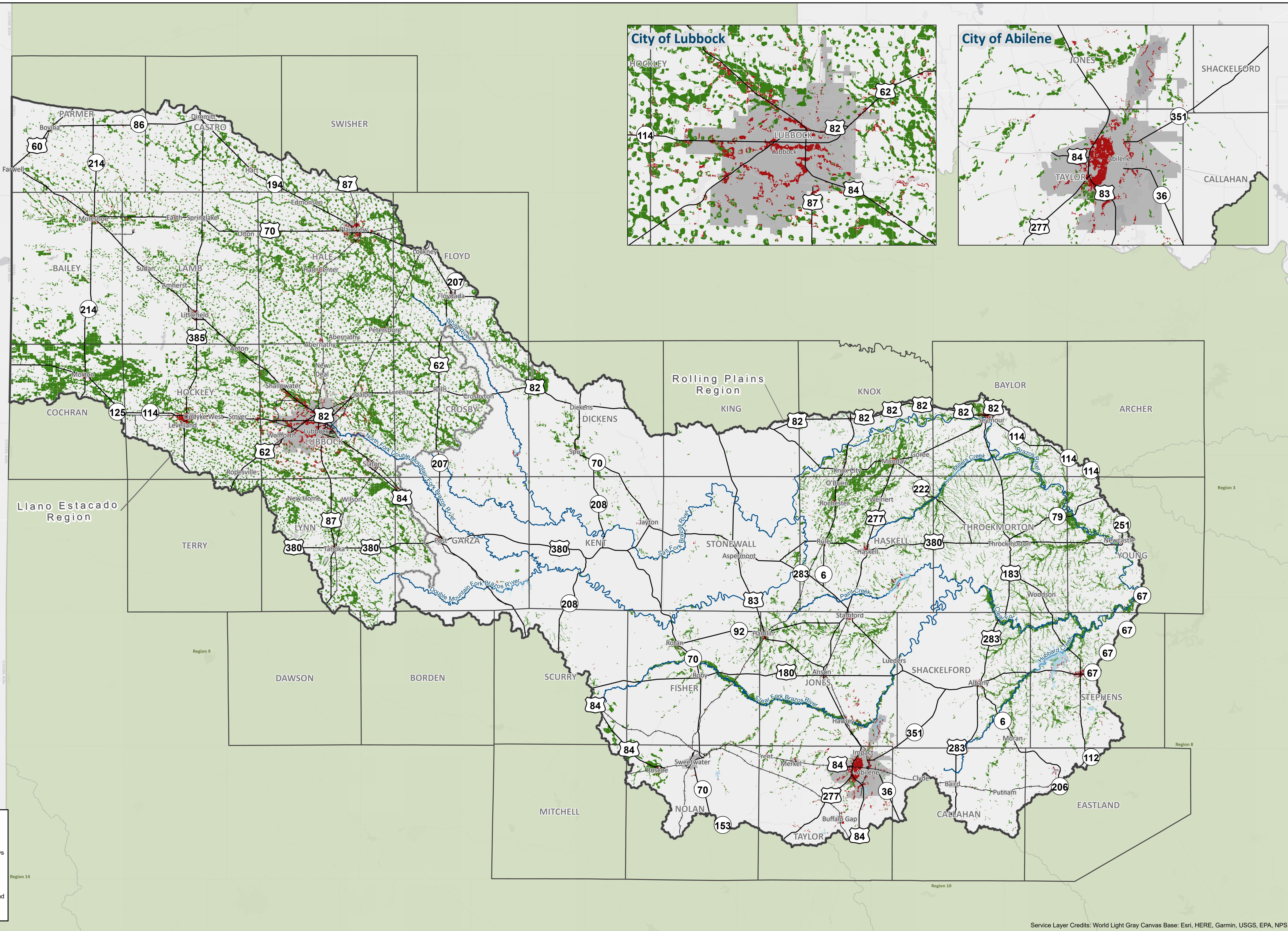
REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

MAP 11B
Region 7

6/16/2023

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

0 3 6 12 Miles

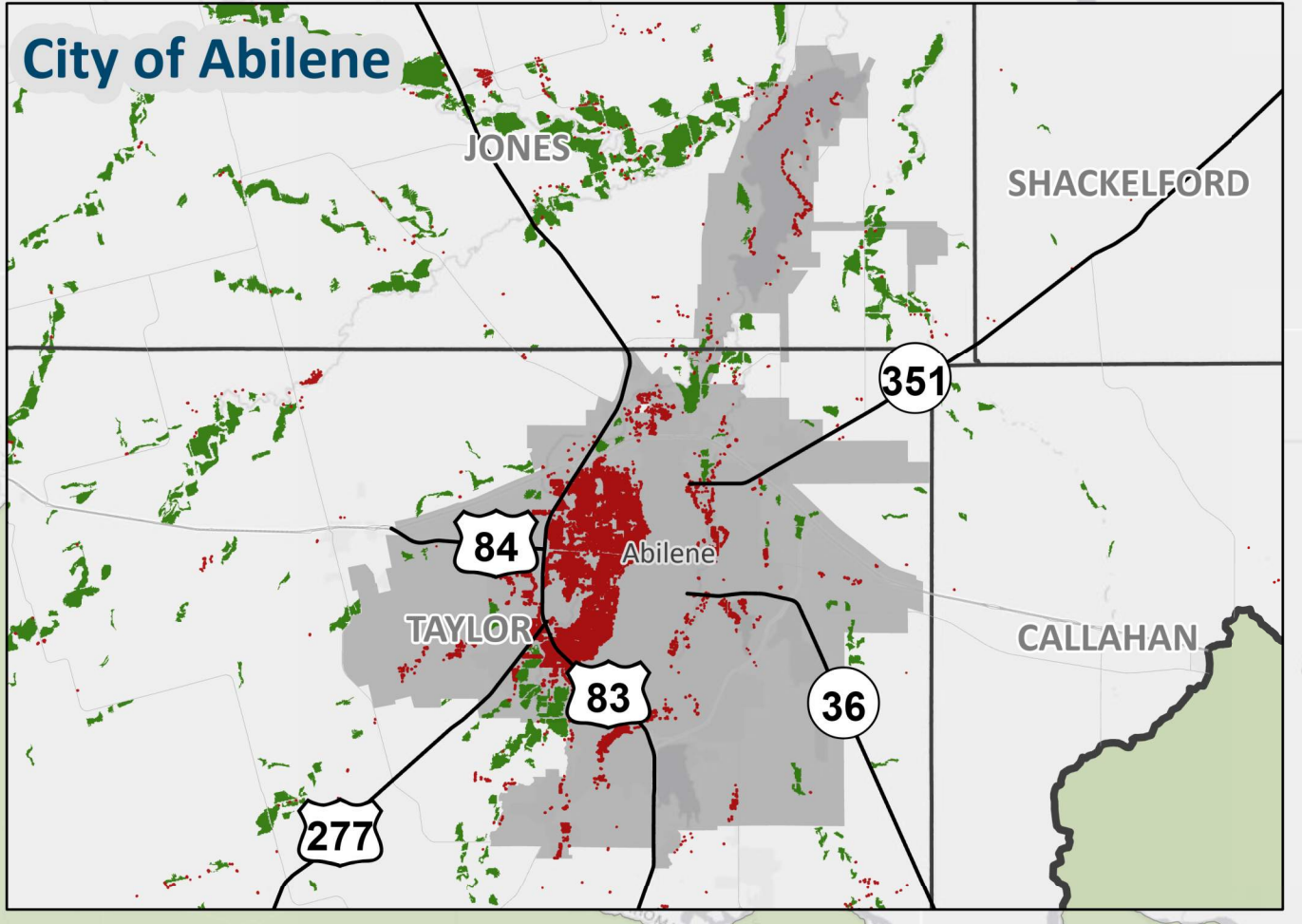
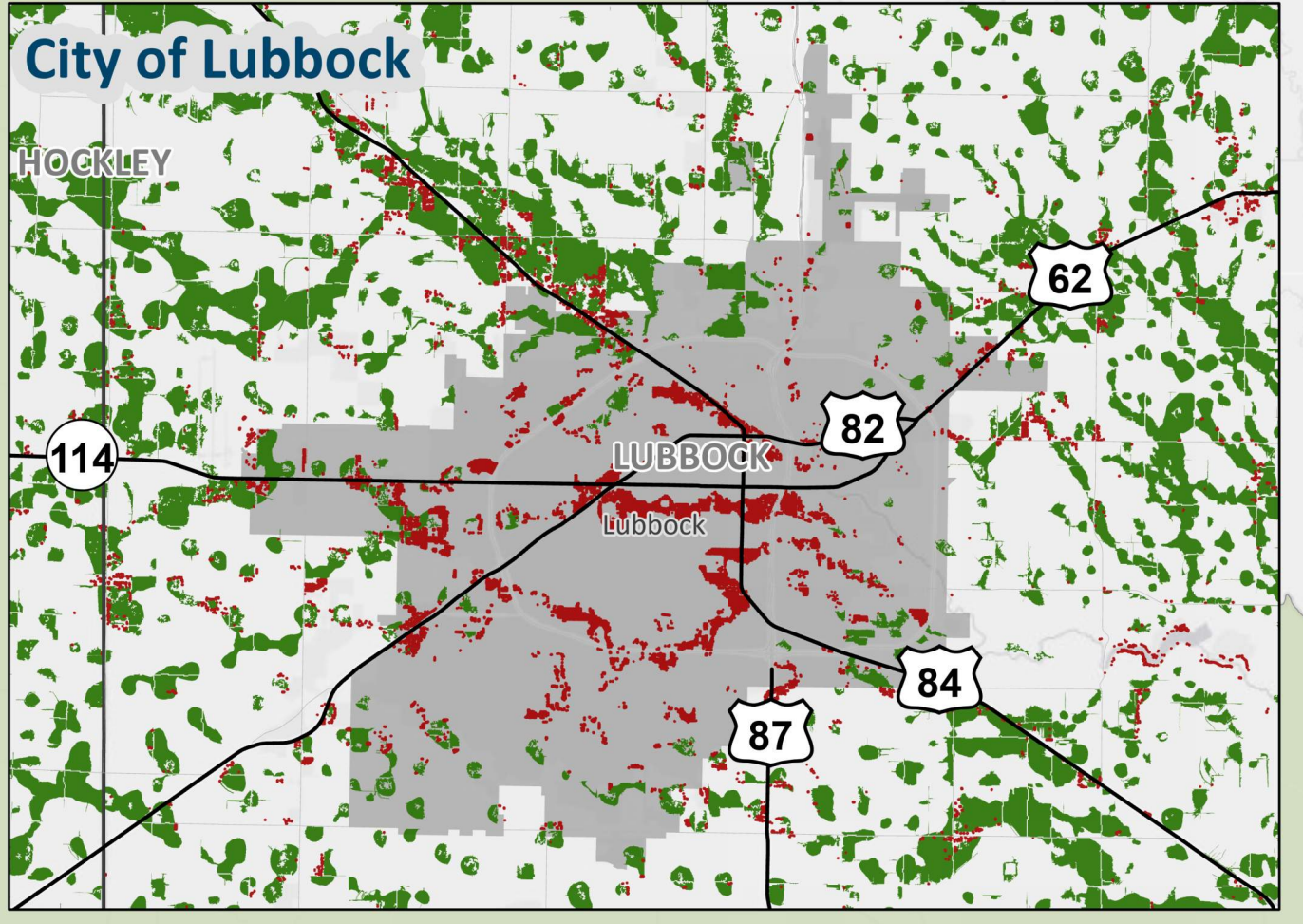


Legend

- Major Rivers
- Major Roadways

Exposure Type

- Buildings
- Agricultural Land
- Caprock



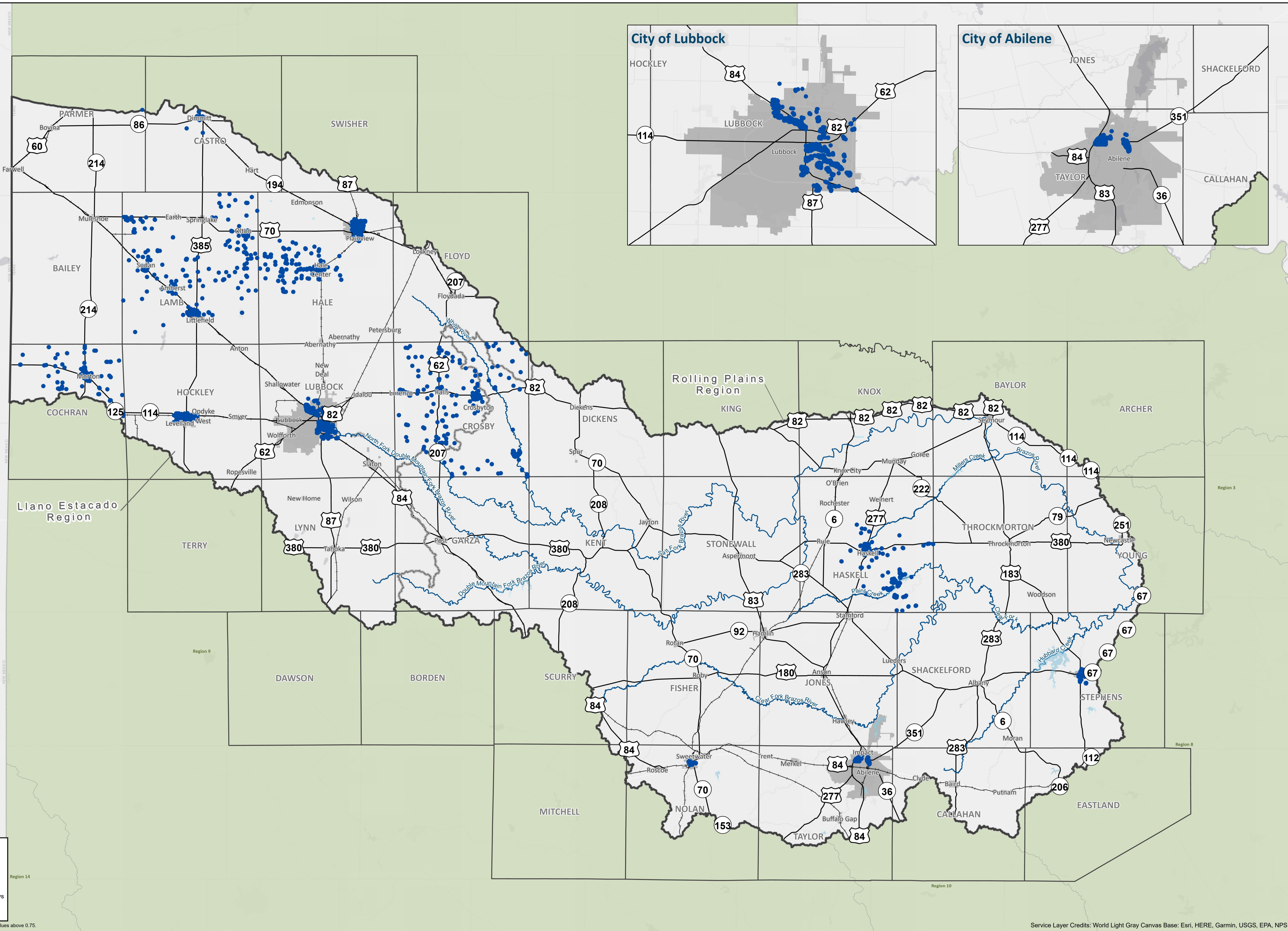
Future Condition Flood Exposure

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

MAP 11C
Region 7

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

0 3 6 12 Miles



Legend

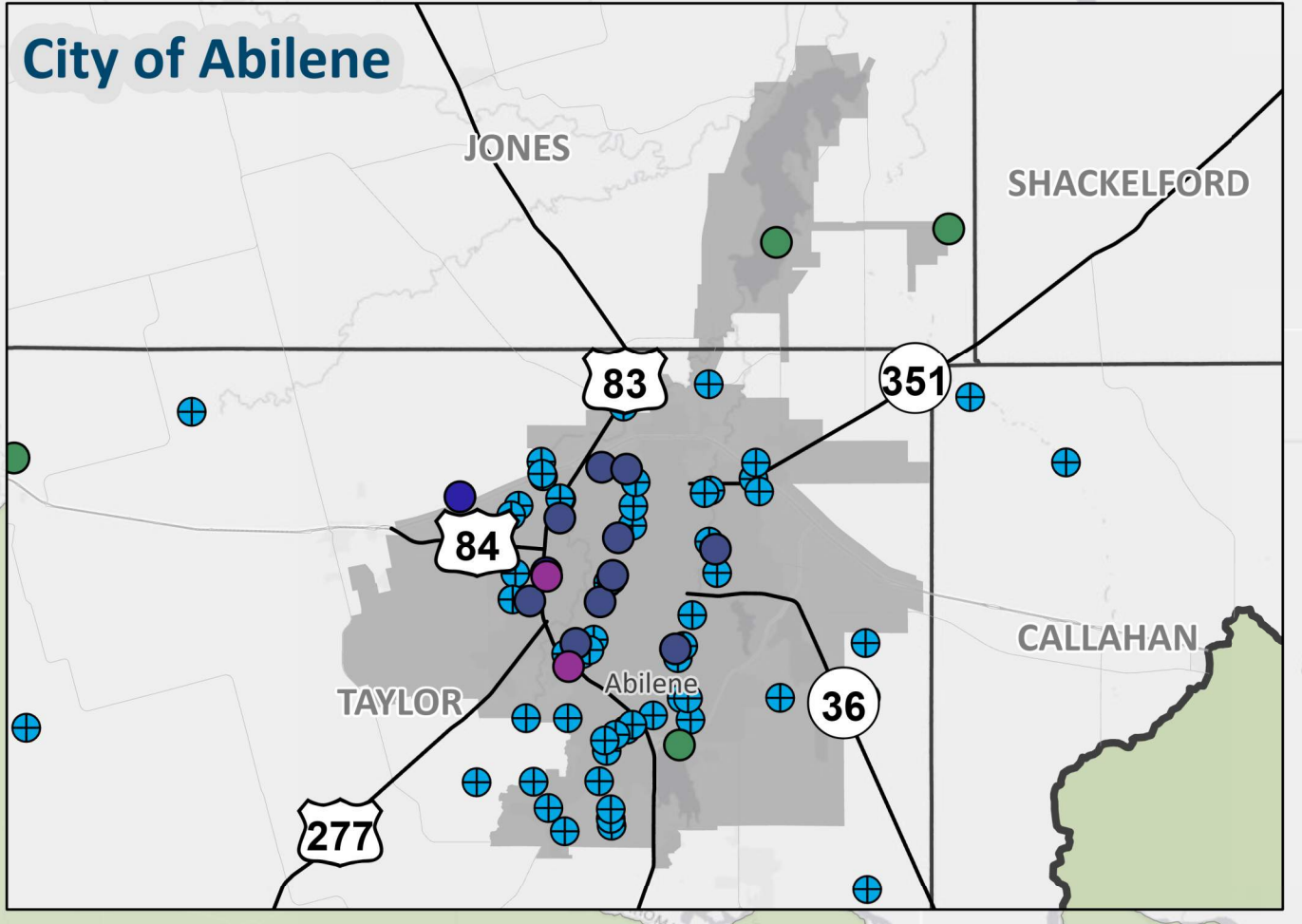
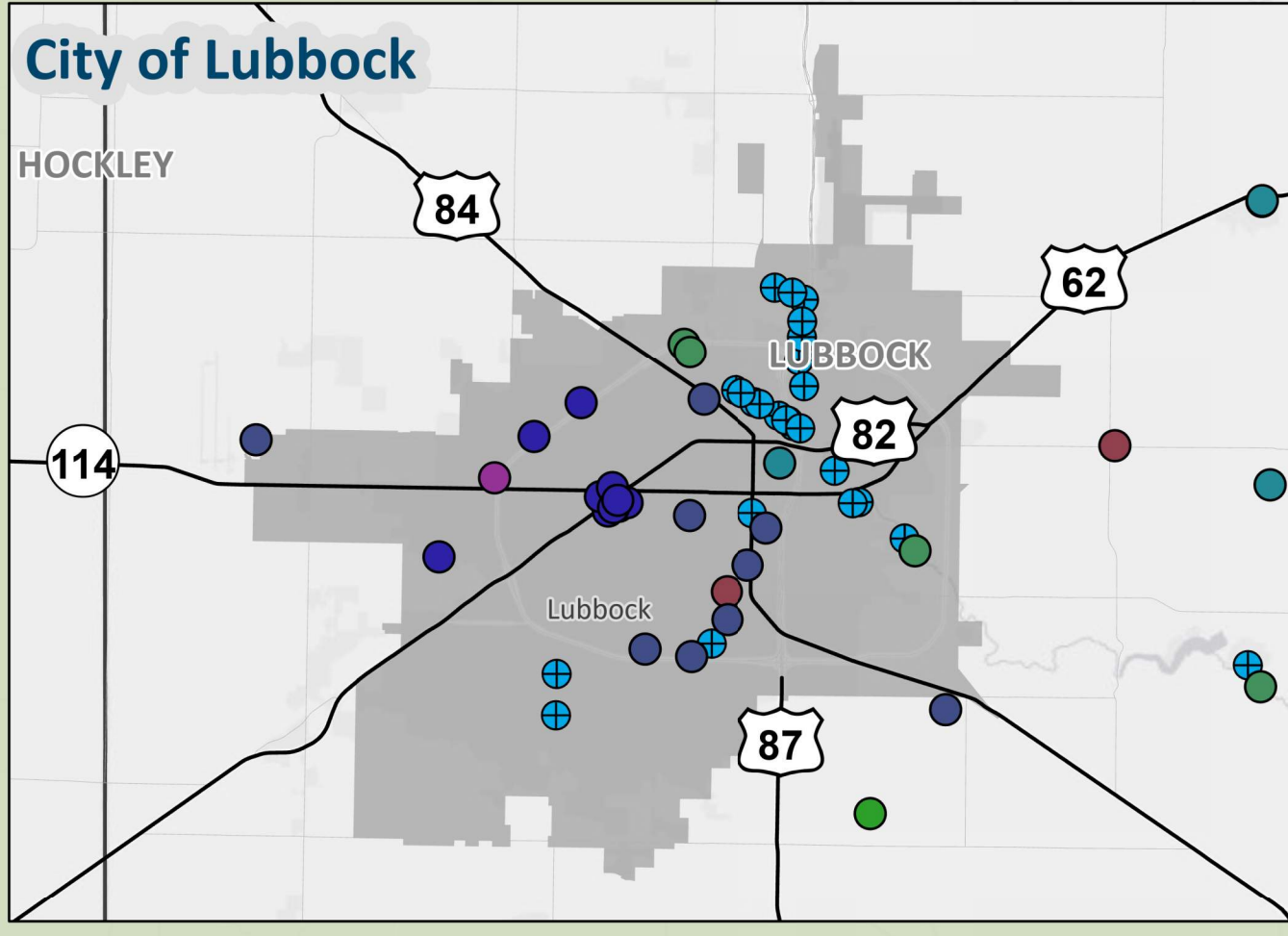
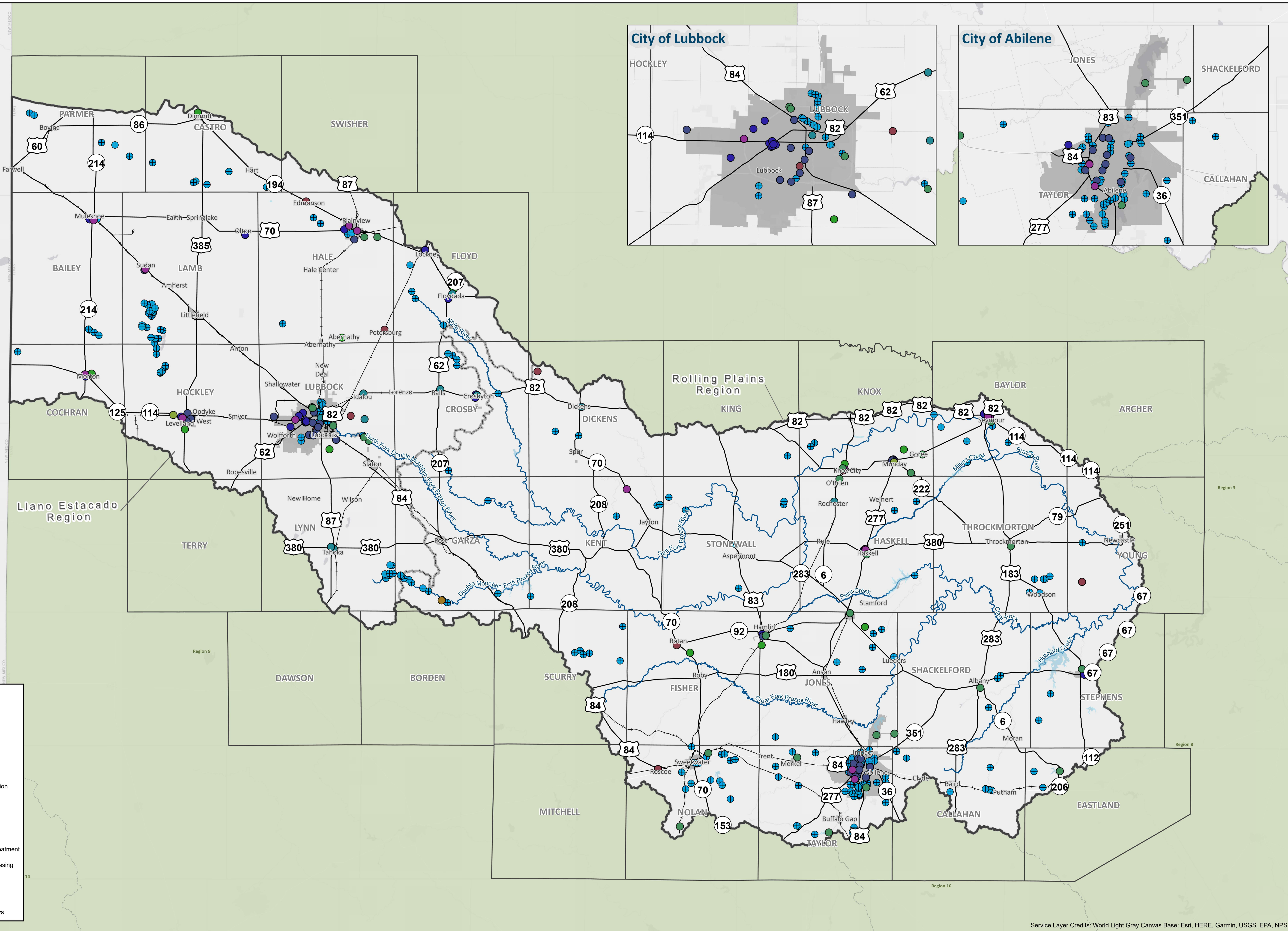
- High SVI Area¹
- Major Rivers
- Major Roadways
- ▭ Caprock

¹Density of vulnerability index values above 0.75.

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS



0 3 6 12 Miles



Legend

Infrastructure Type

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

▭ Caprock

— Major Rivers

— Major Roadways



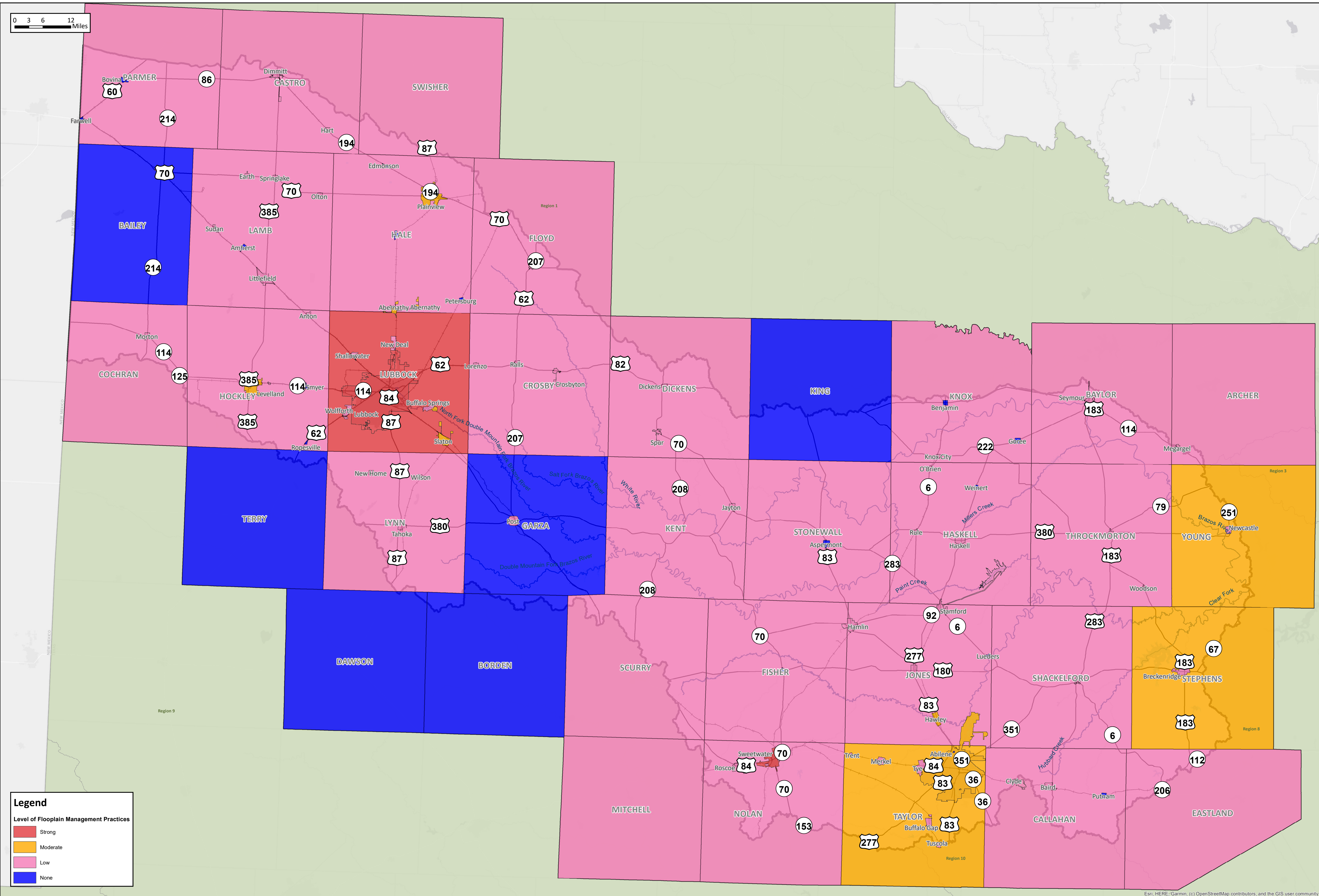
Existing Condition Critical Infrastructure At Risk

MAP 12B
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

Service Layer Credits: World Light Gray Canvas Base: Esri, HERE, Garmin, USGS, EPA, NPS

0 3 6 12 Miles



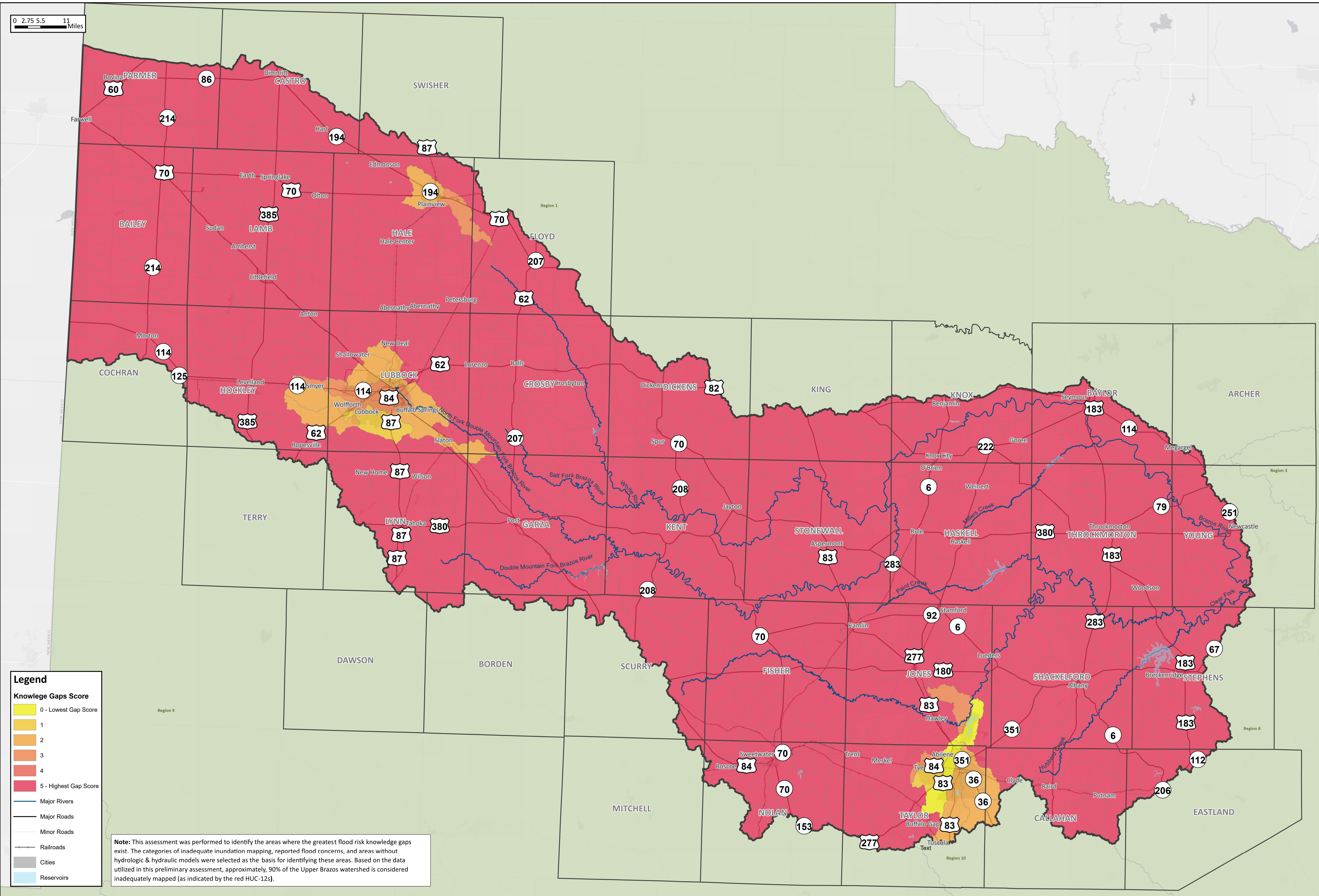
Legend
Level of Floodplain Management Practices

Red	Strong
Orange	Moderate
Pink	Low
Blue	None



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 2.75 5.5 11 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

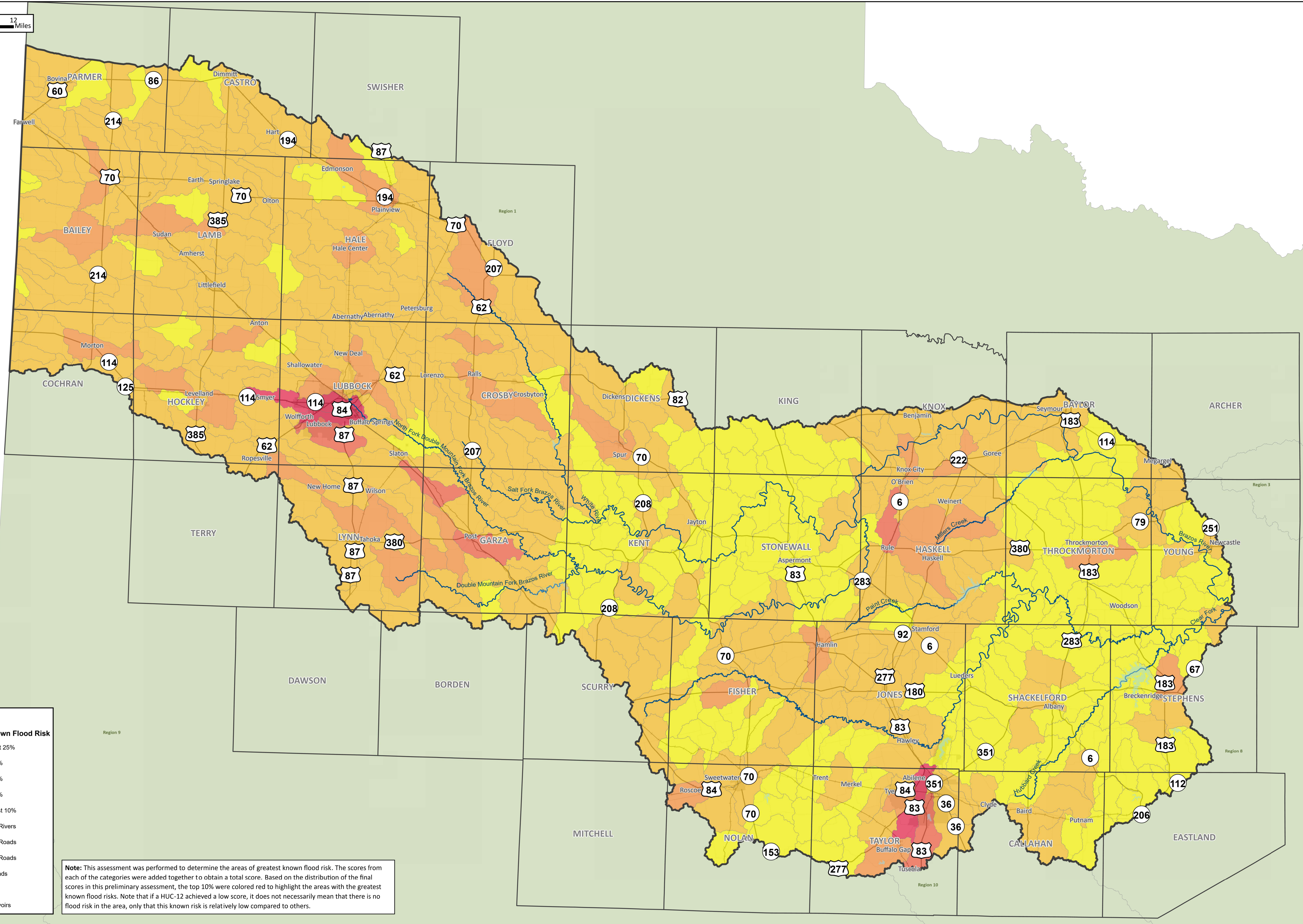
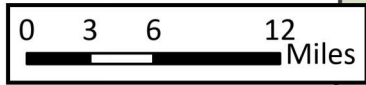
Reservoirs

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

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN





Legend

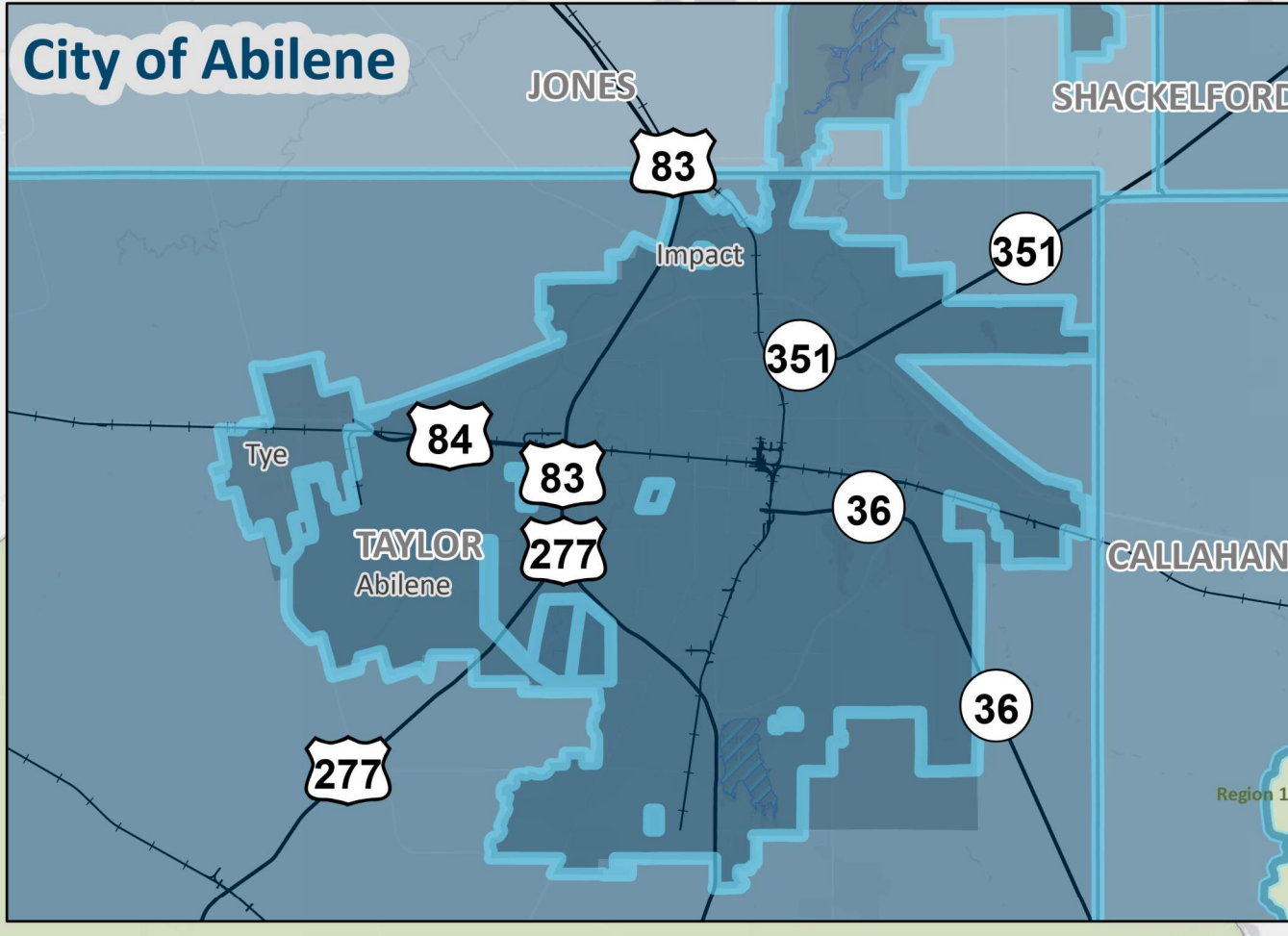
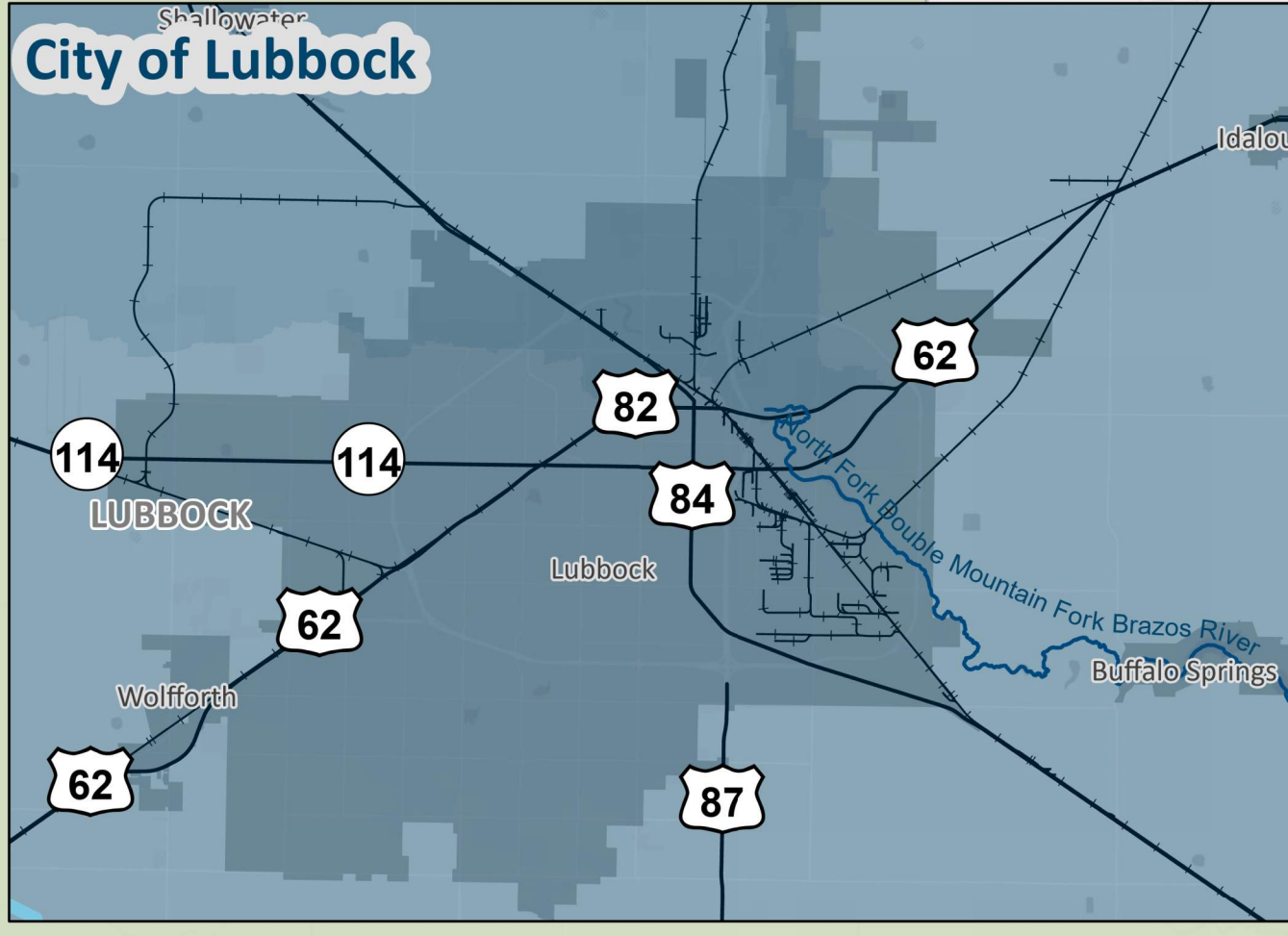
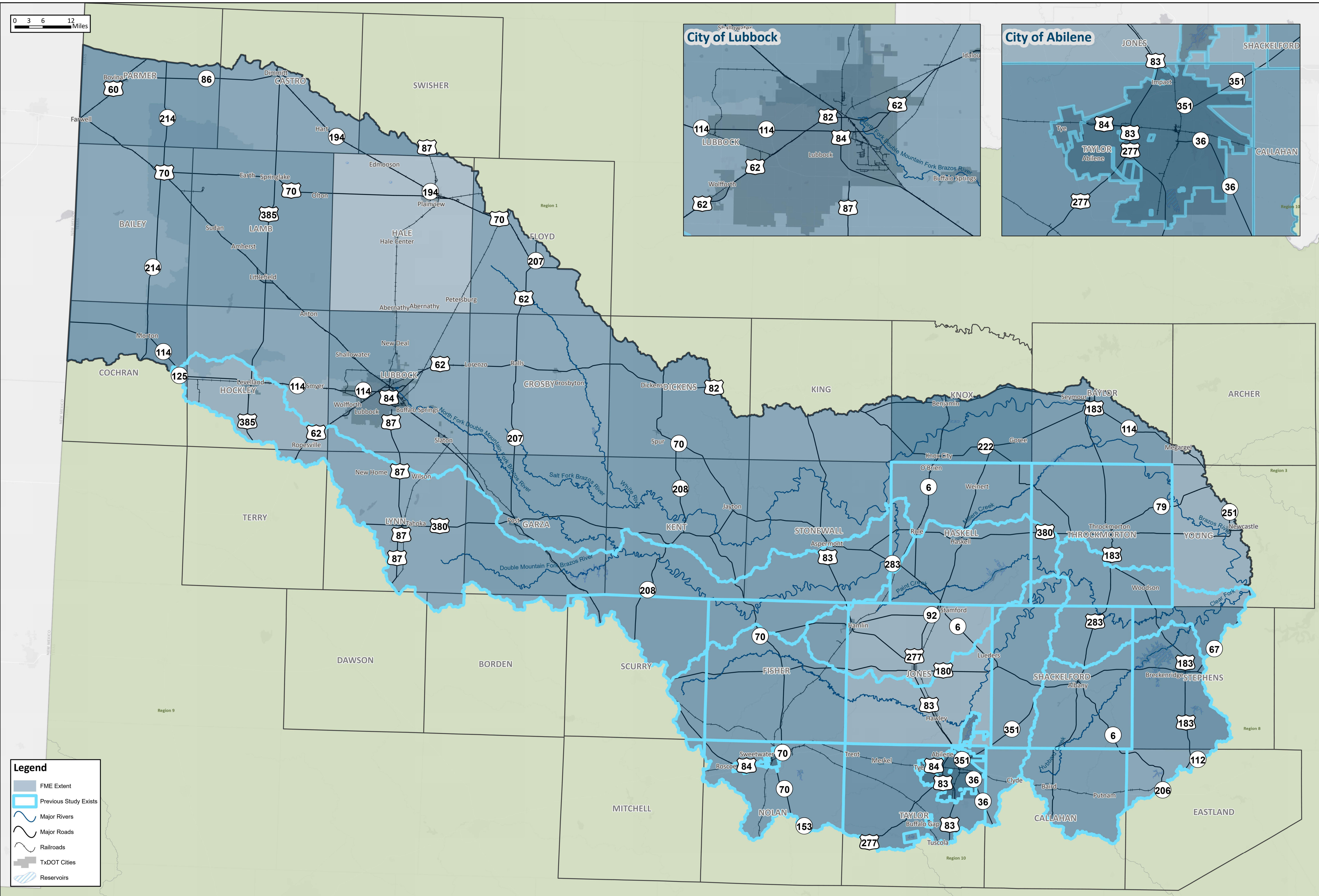
Greatest Known Flood Risk

- 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.



0 3 6 12 Miles



Legend

- FME Extent
- Previous Study Exists
- Major Rivers
- Major Roads
- Railroads
- TxDOT Cities
- Reservoirs



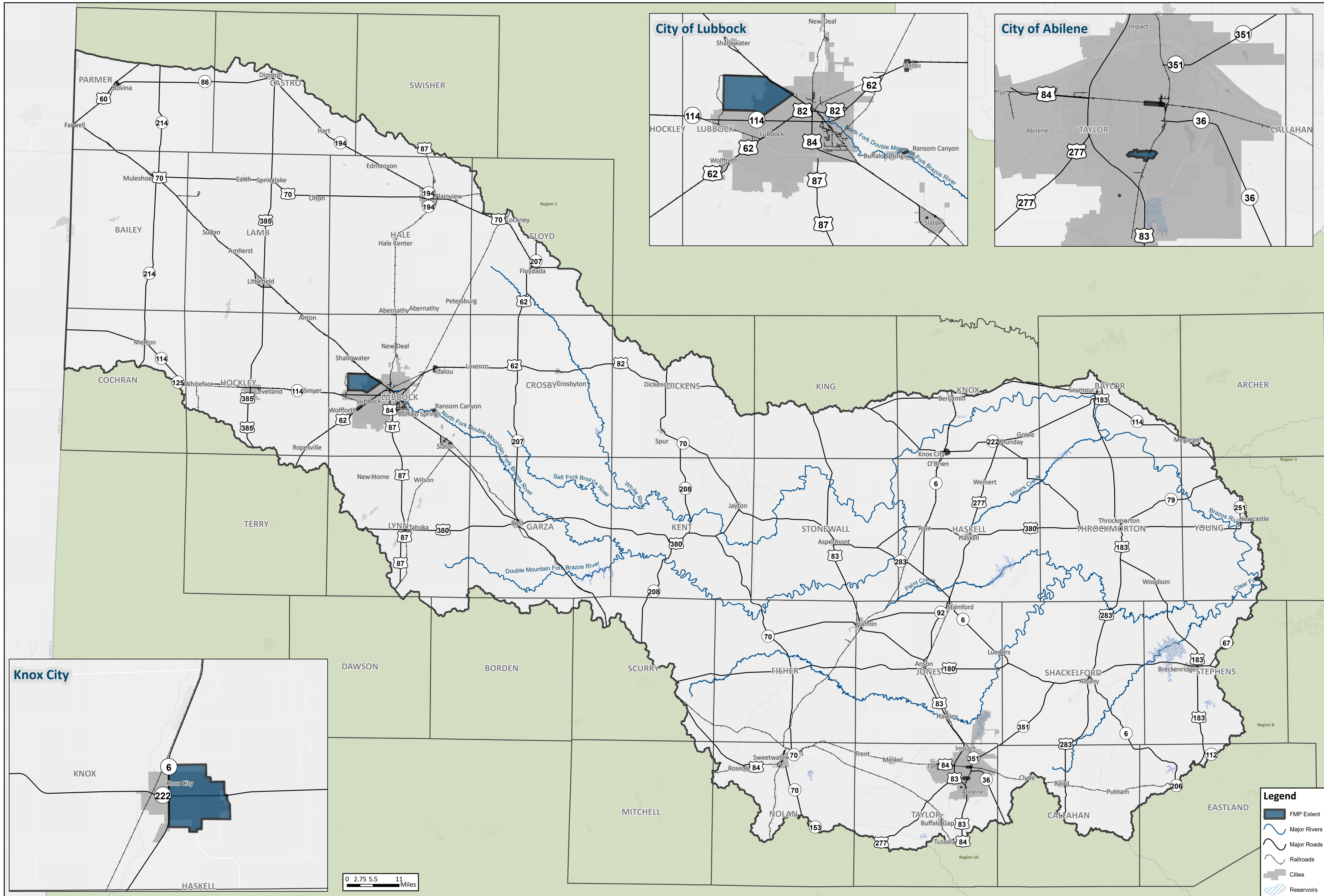
Extent of Potential Flood Management Evaluations and Existing Mapping Needs

MAP 16

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

Region 7

6/13/2023



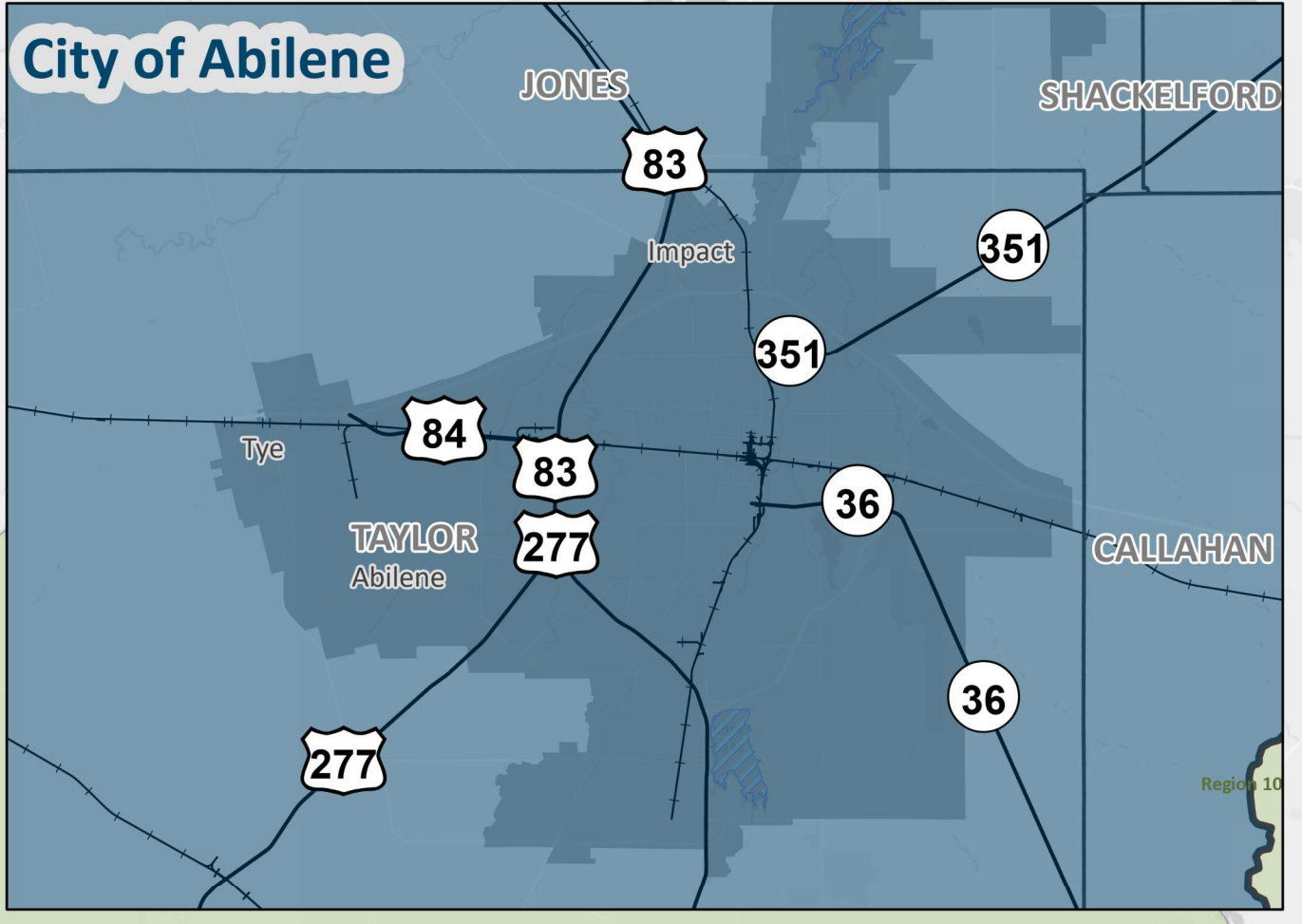
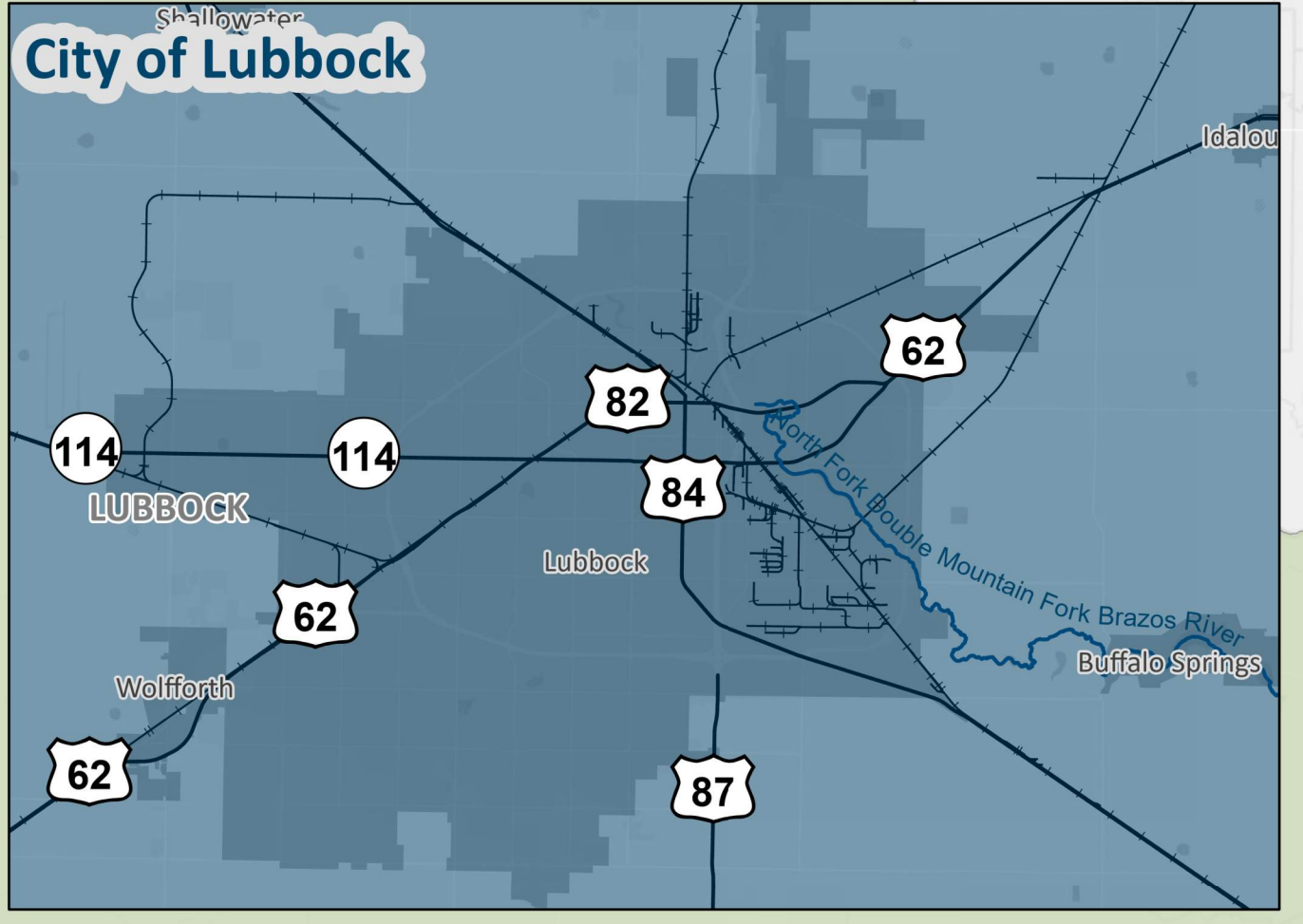
Extent of Potential Flood Mitigation Projects

MAP 17
Region 7

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN



0 3 6 12 Miles



Legend

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



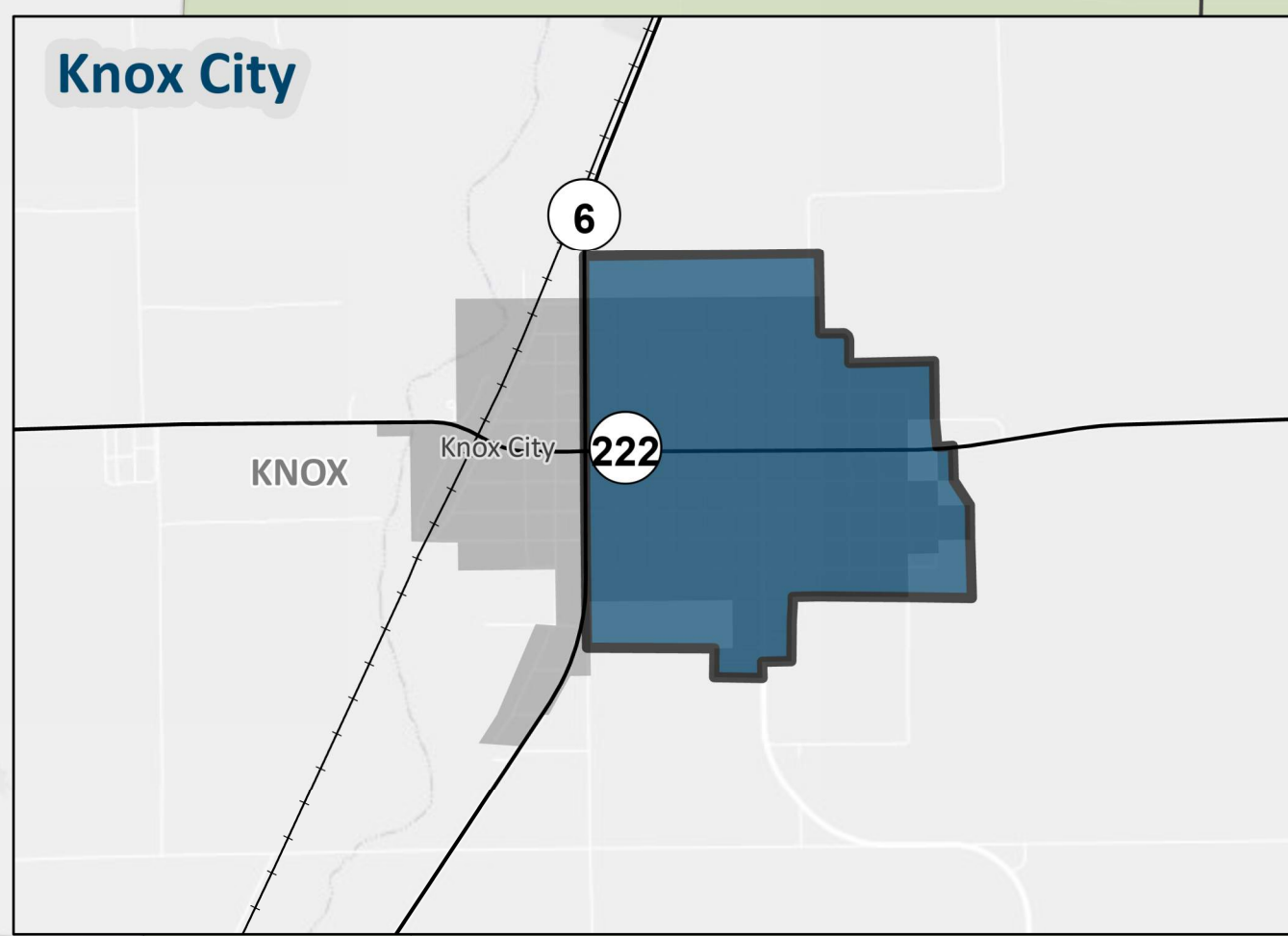
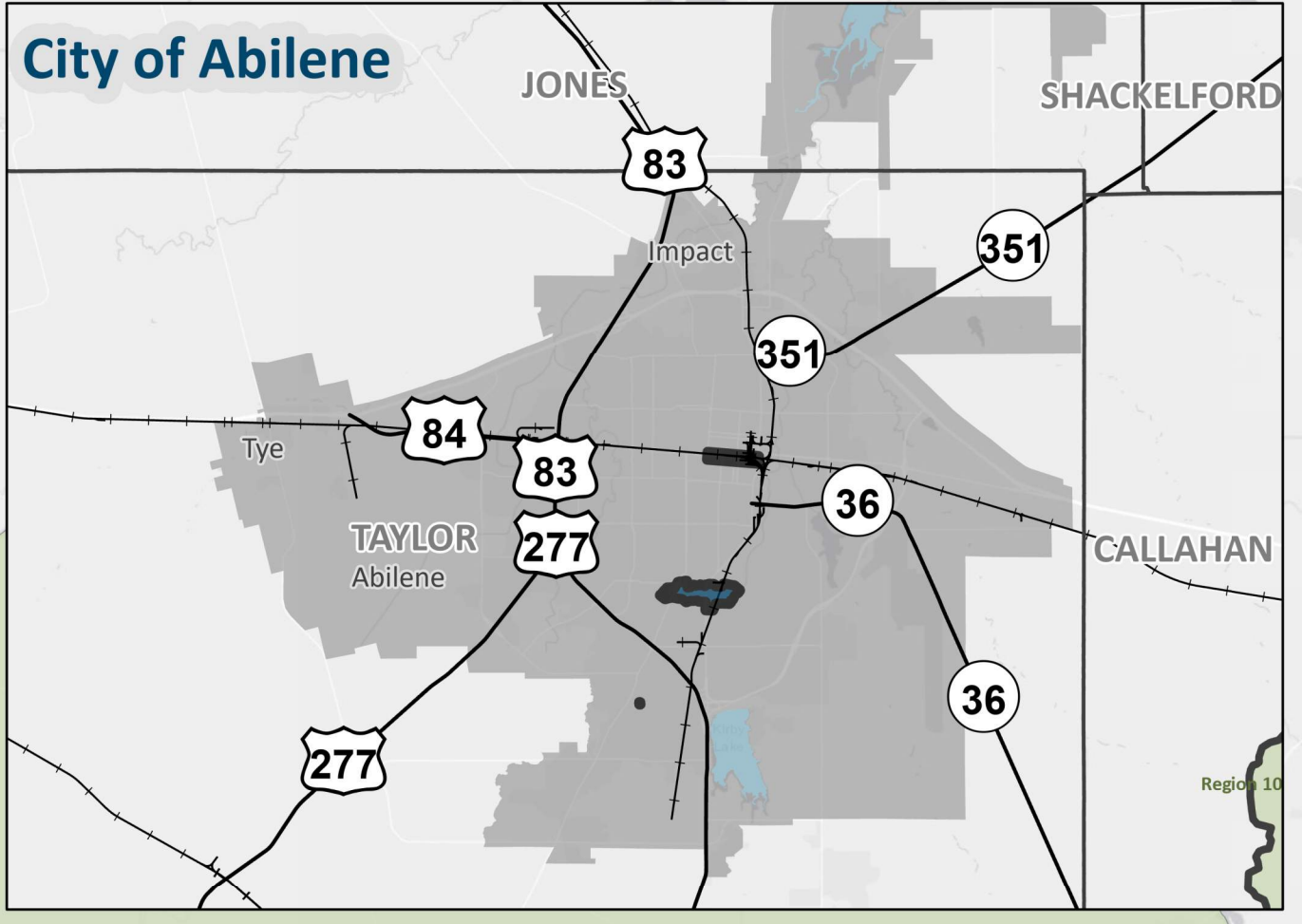
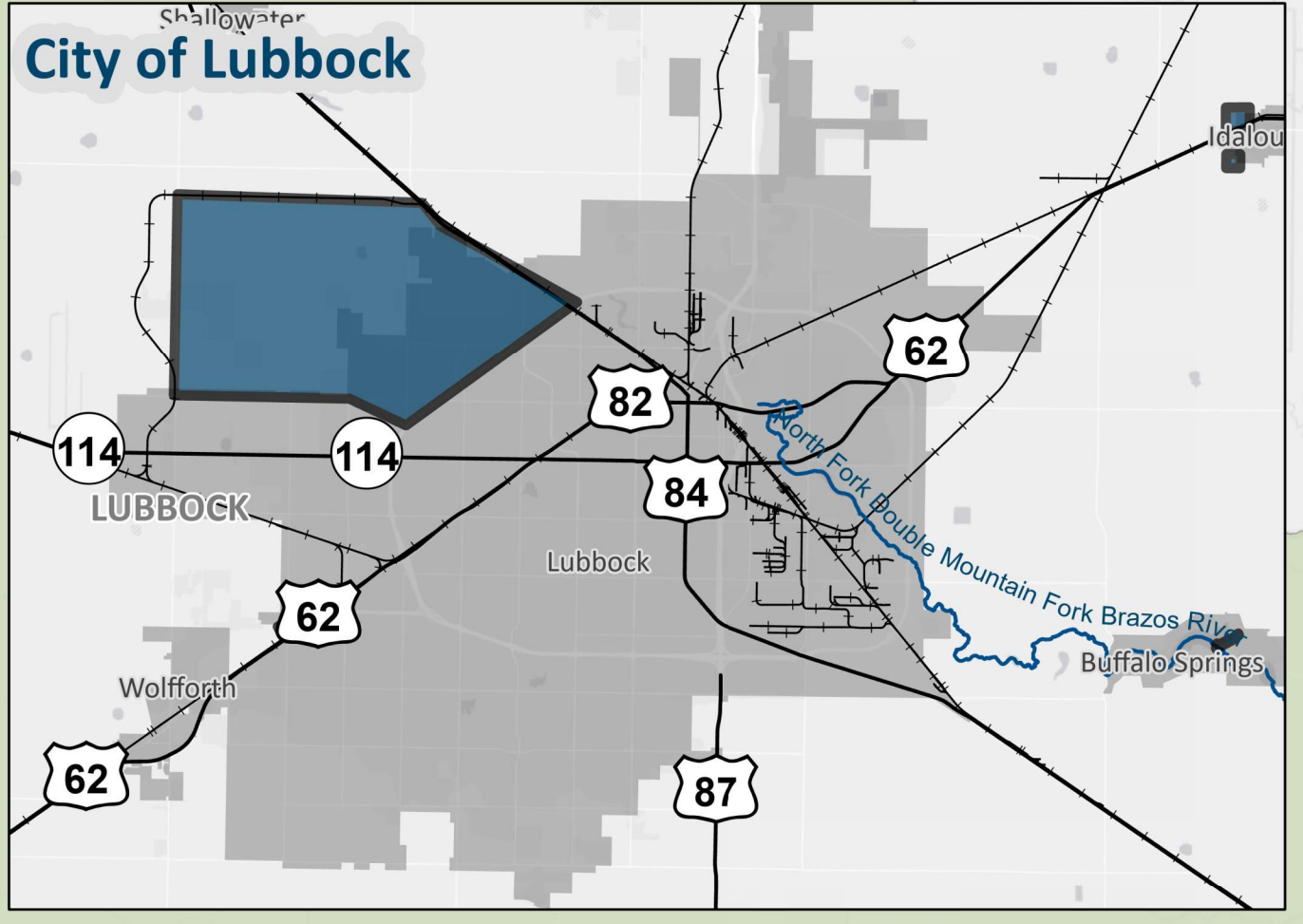
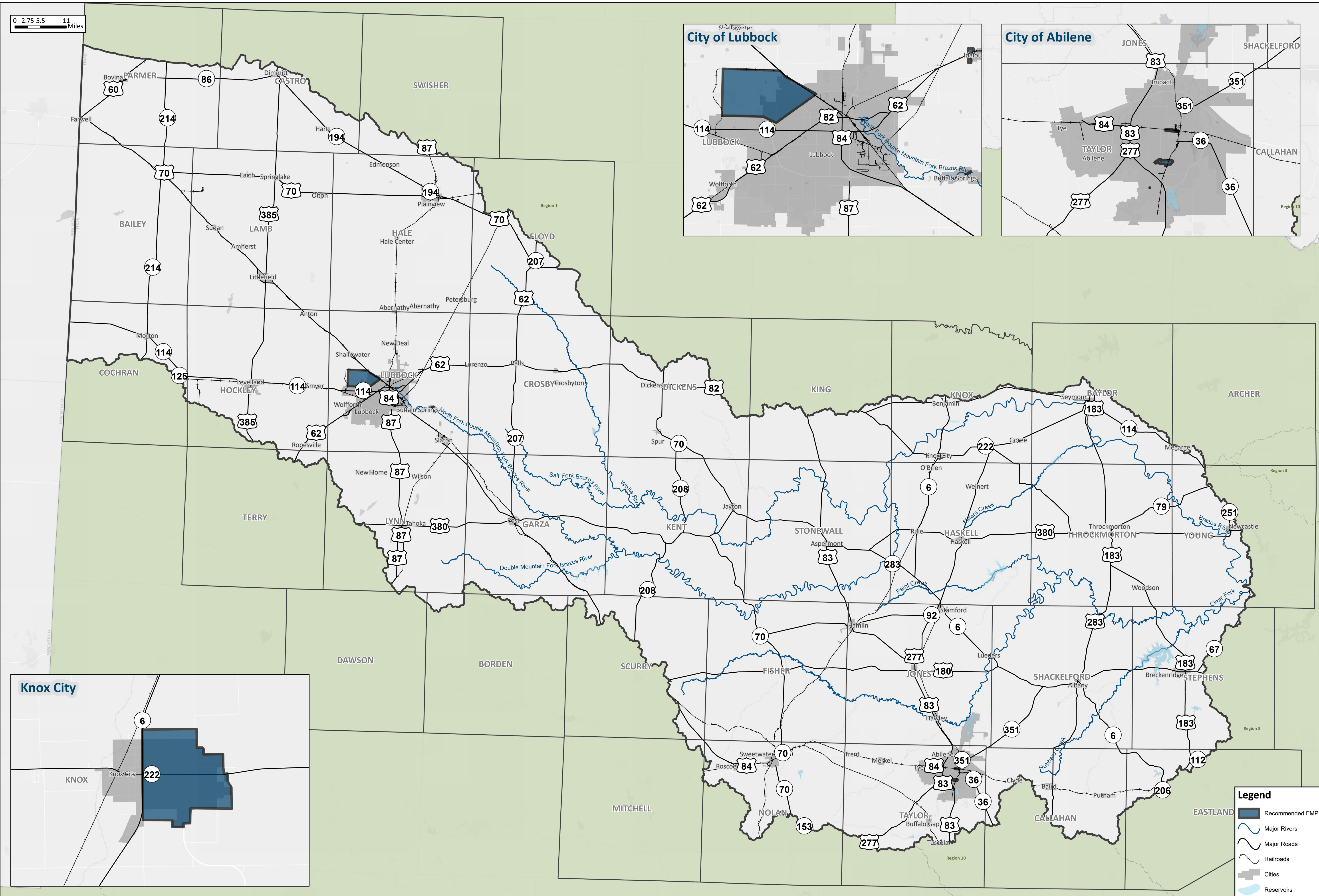
Recommended Flood Management Evaluations

**MAP 19
Region 7**

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

6/7/2023

0 2.75 5.5 11 Miles



Legend

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



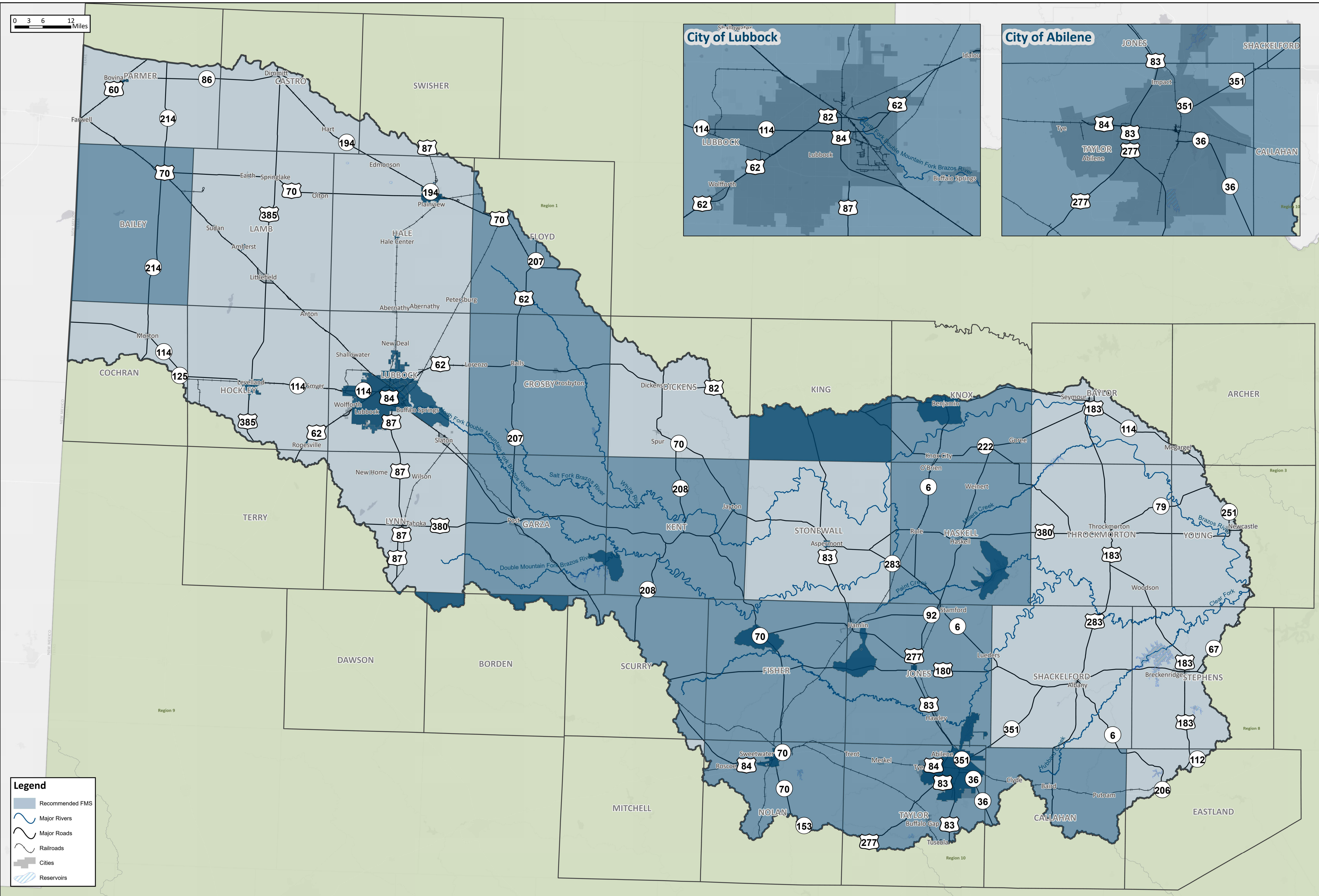
Recommended Flood Mitigation Projects

REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

MAP 20
Region 7

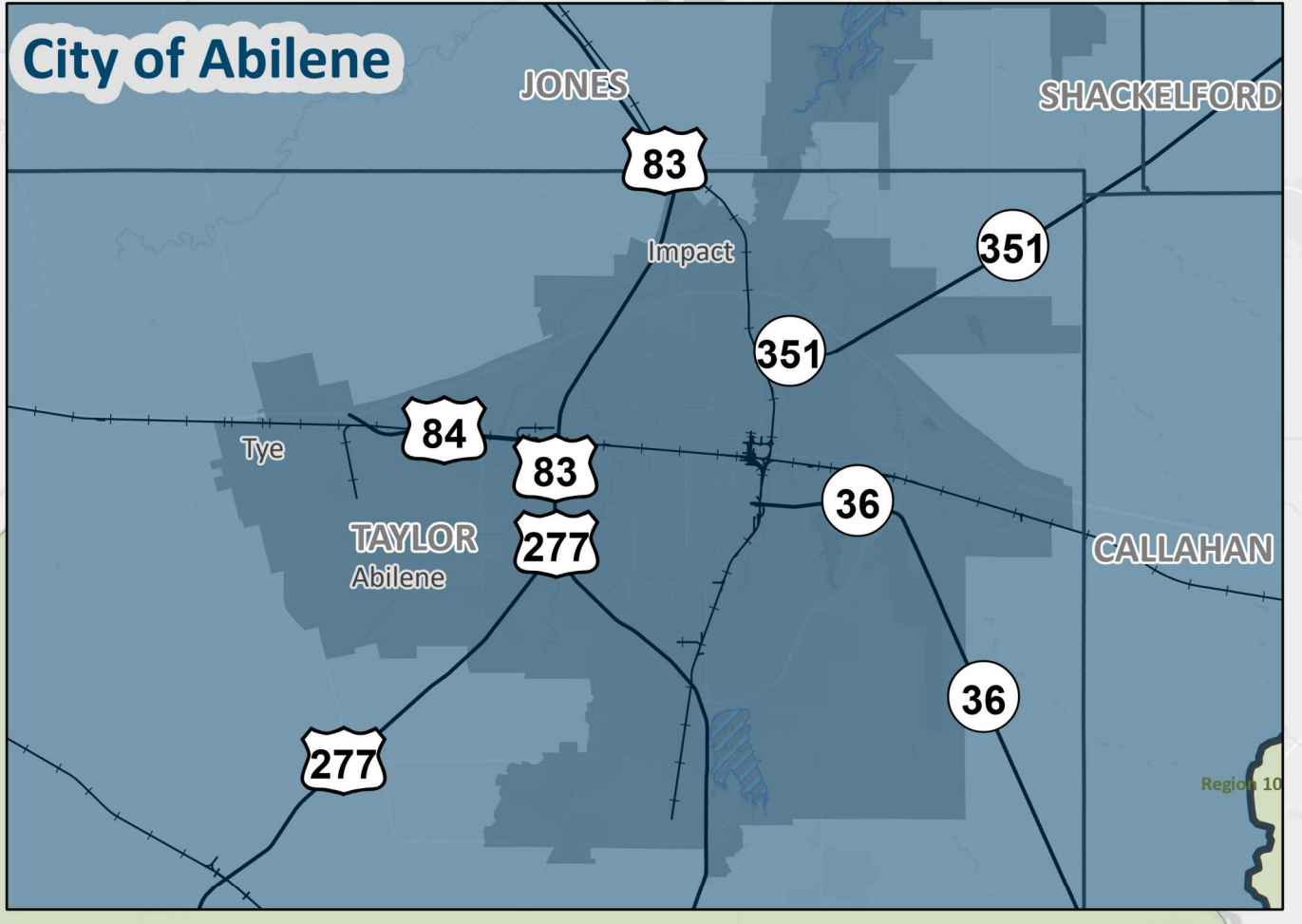
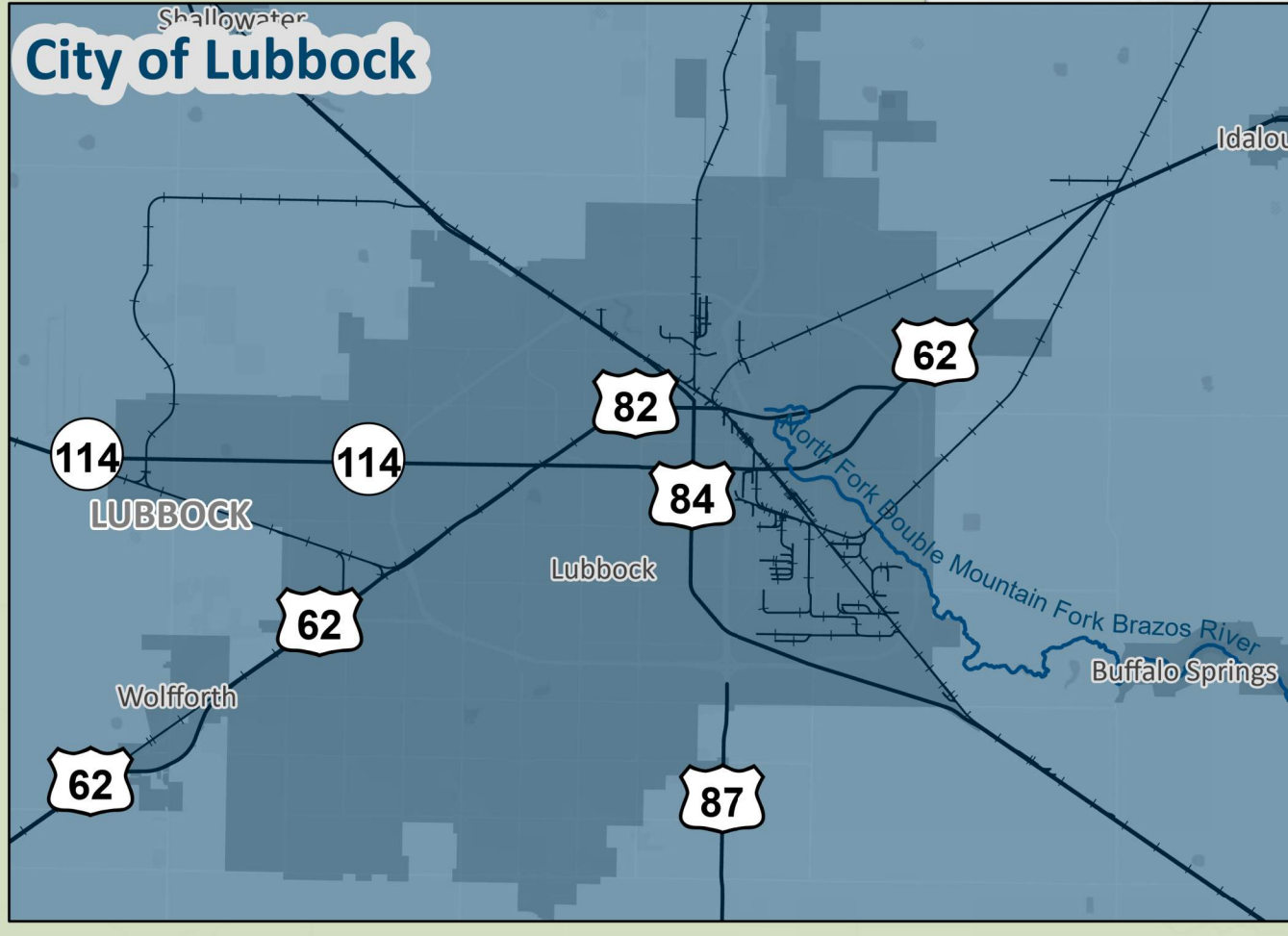
6/28/2023

0 3 6 12 Miles



Legend

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



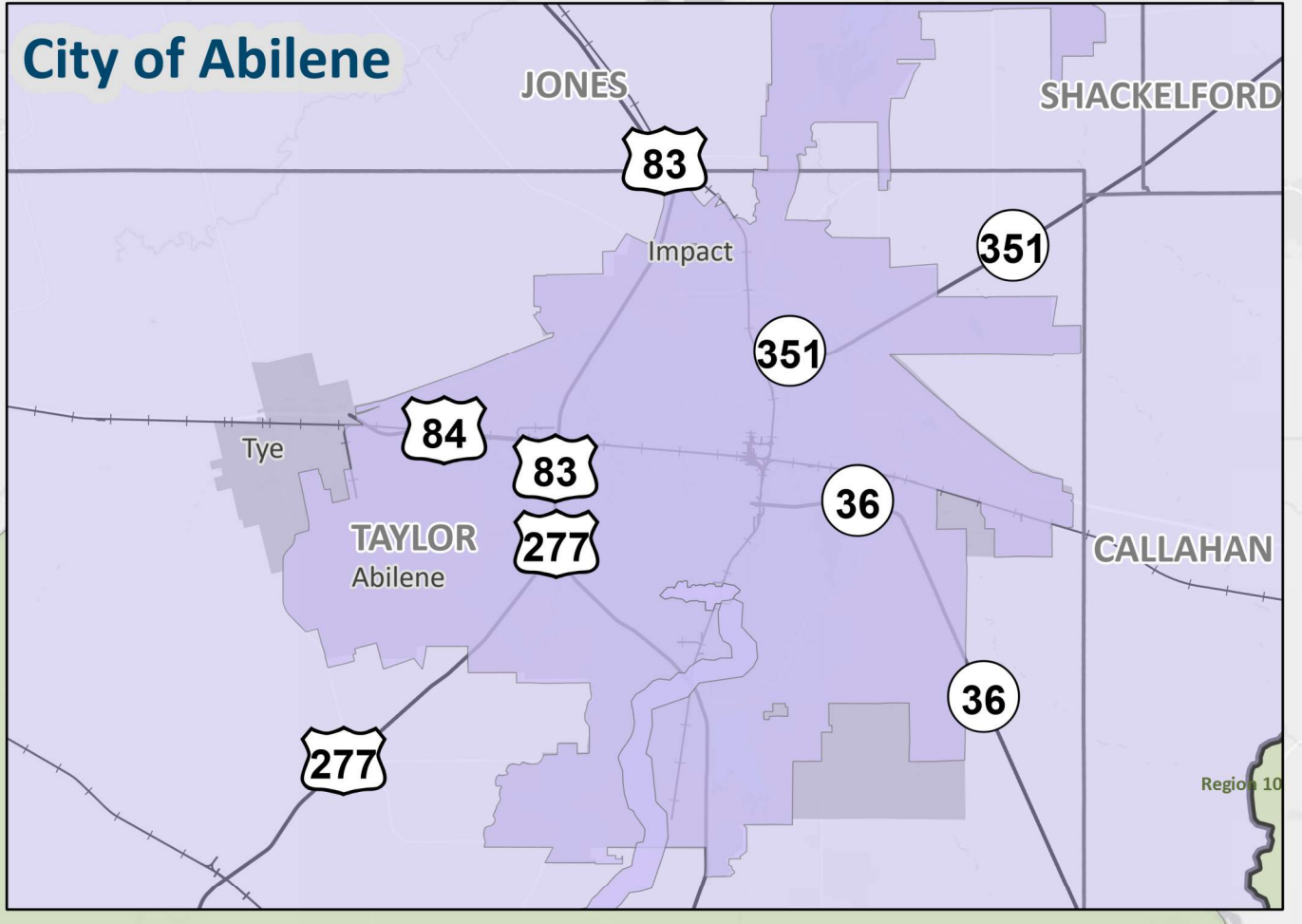
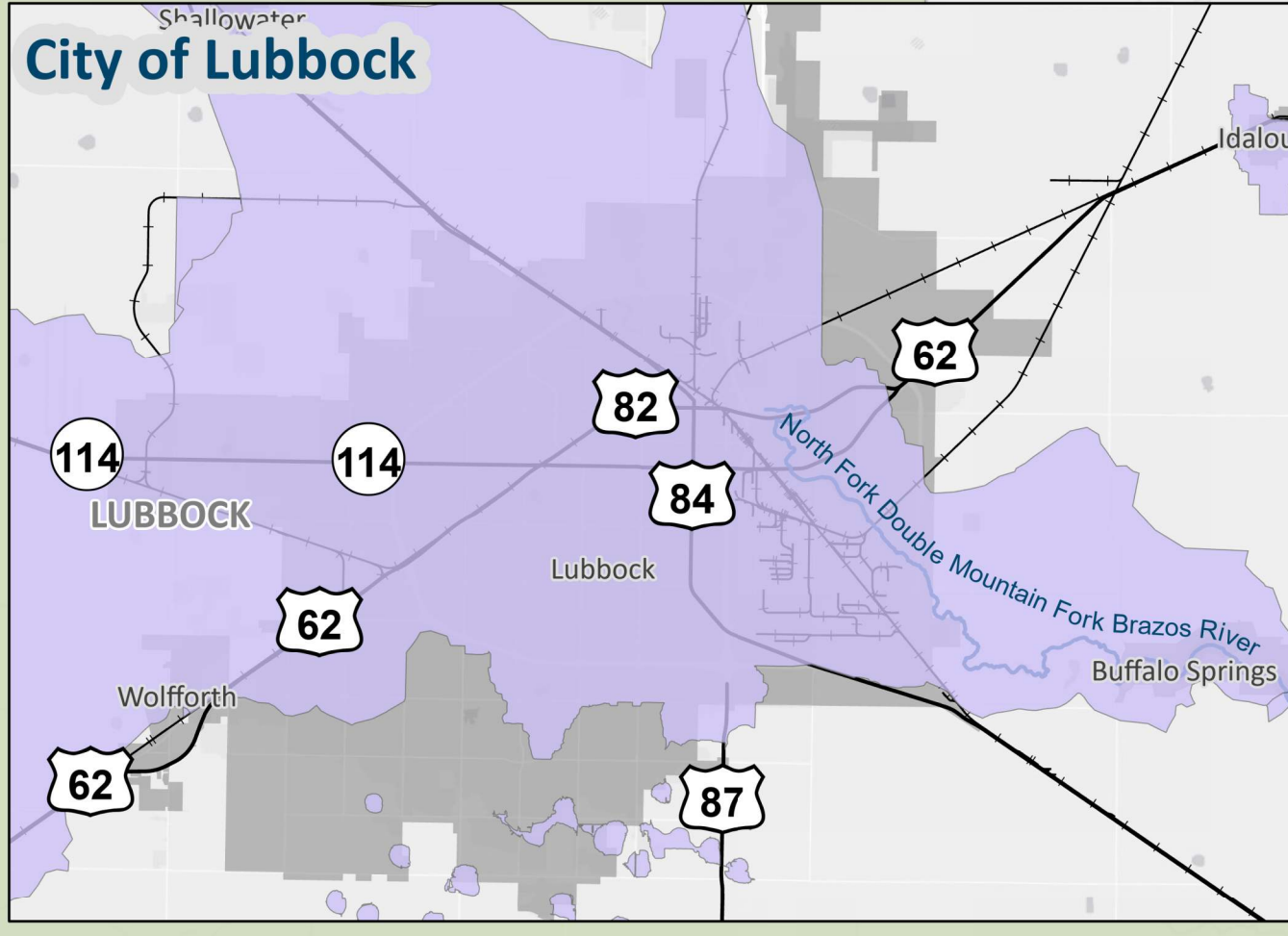
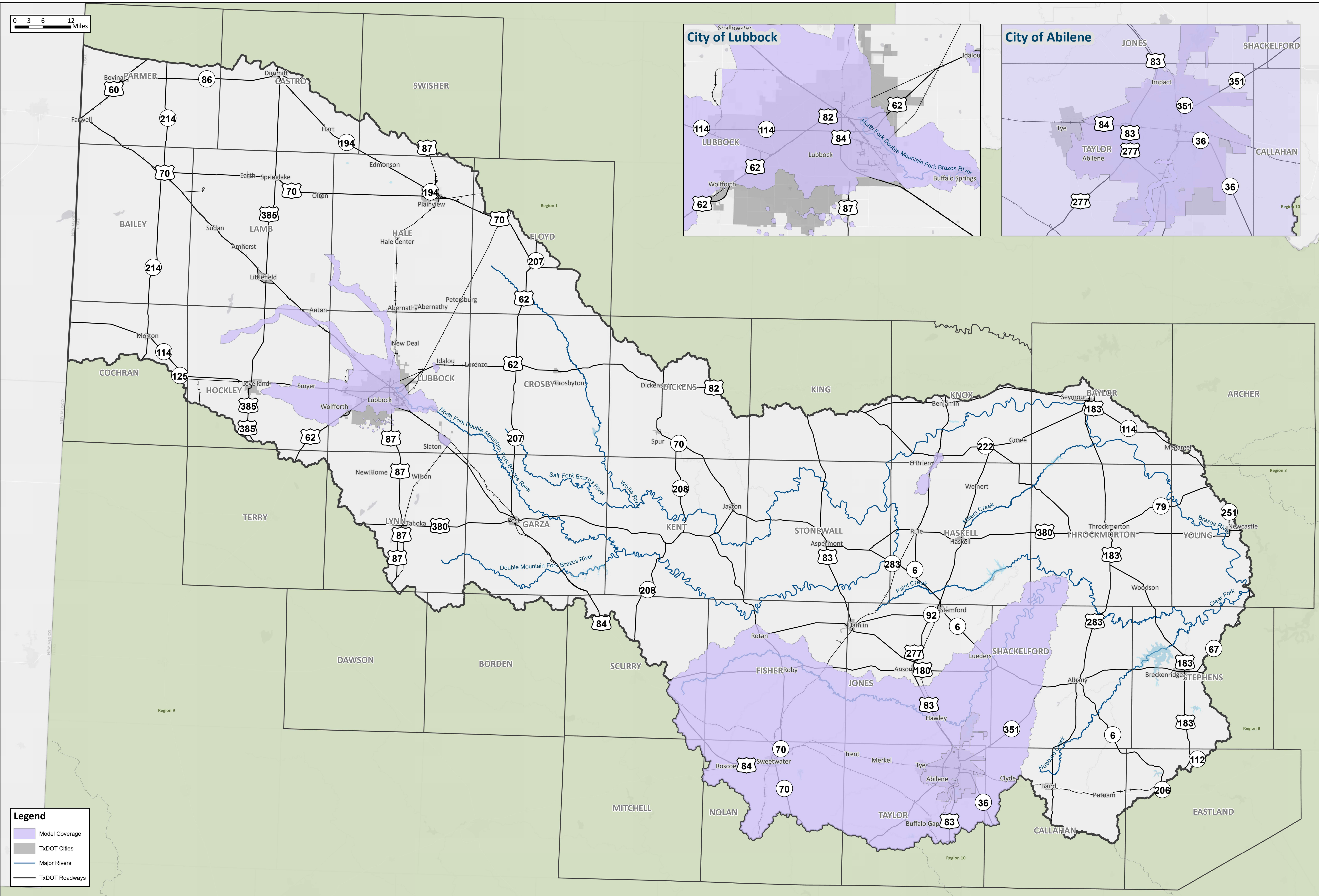
Recommended Flood Management Strategies

MAP 21

**REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN**

Region 7

0 3 6 12 Miles



Legend

- Model Coverage
- TxDOT Cities
- Major Rivers
- TxDOT Roadways

MAP 22
Region 7

Model Coverage
REGION 7 UPPER BRAZOS
2023 REGIONAL FLOOD PLAN

