APPENDIX B: Geodatabase and Map Information

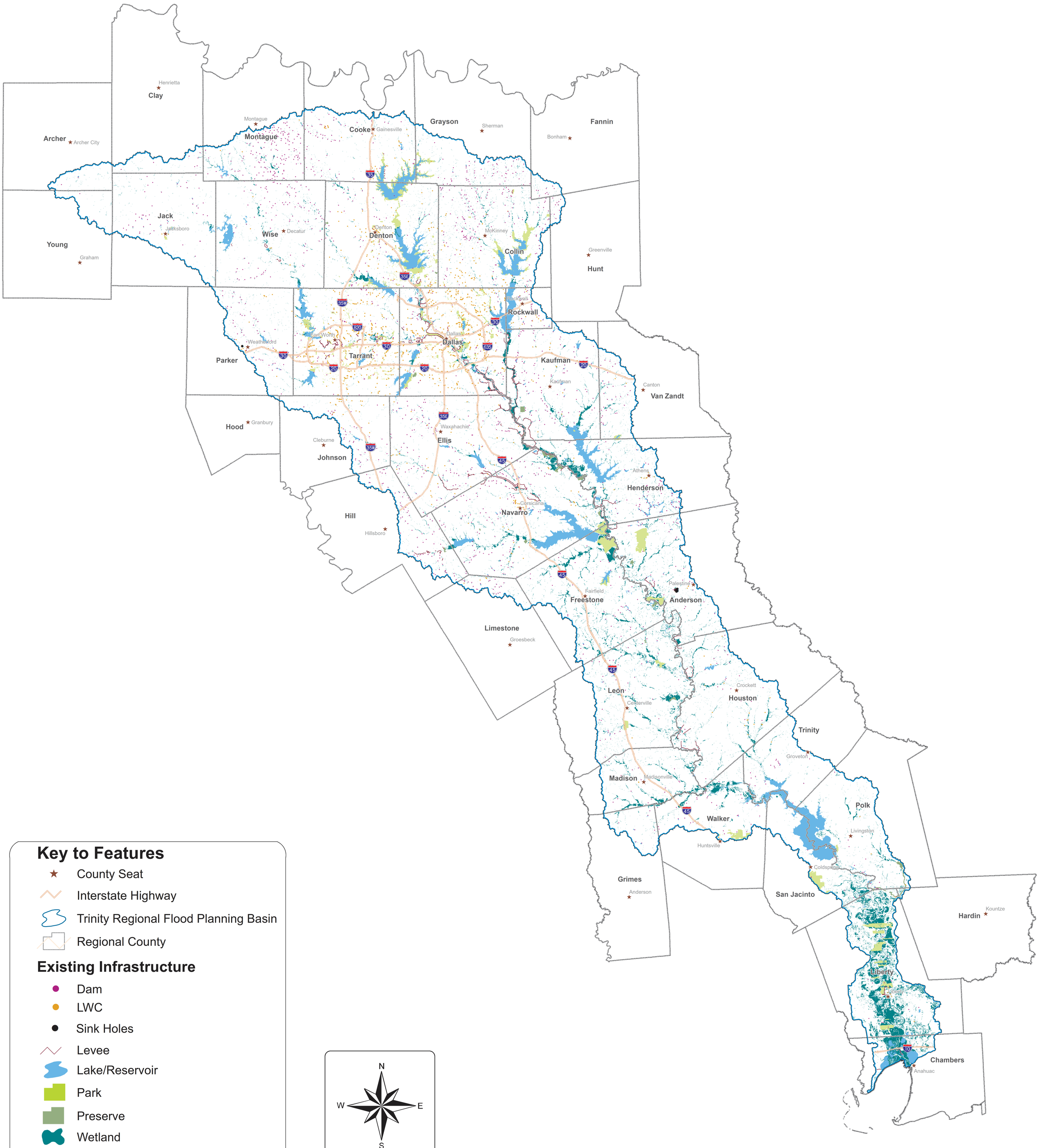
Table 2.1: Geodatabases Layers and Tables – Existing Conditions

Item Name	Description	Feature Class Name	Data Format Polygon/Line/ Point/GDB Table
Existing Flood Hazard	Perform existing condition flood hazard analyses to determine the location and magnitude of both 1.0% annual chance and 0.2% annual chance flood events	ExFldHazard	Polygon
Existing Flood Mapping Gaps	Existing Gaps in inundation boundary mapping	Ex_Map_Gaps	Polygon
Existing Exposure	Develop high-level, region-wide, and largely GIS-based existing condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, both 1.0% annual chance and 0.2% annual chance flood events	ExFldExpPol	Polygon
	Develop high-level, region-wide, and largely GIS-based existing condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, both 1.0% annual chance and 0.2% annual chance flood events	ExFldExpLn	Polyline
	Develop high-level, region-wide, and largely GIS-based existing condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, both 1.0% annual chance and 0.2% annual chance flood events	ExFldExpPt	Point
Existing Exposure	Combines the Exposure Poly, Line, and Point data into a single master layer, also includes Vulnerability data	ExFldExpAll	Point

Table 2.2: Geodatabases Layers and Tables – Future Conditions

Item Name	Description	Feature Class Name	Data Format (Polygon/Line/ Point/GDB Table)
Future Flood Hazard	Perform future condition flood hazard analyses to determine the location and magnitude of both 1.0% annual chance and 0.2% annual chance flood events	FutFldHazard	Polygon
Future Flood Mapping Gaps	Future Gaps in inundation boundary mapping	Fut_Map_Gaps	Polygon
Future Exposure	Develop high-level, region-wide, and largely GIS-based future condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, both 1.0% annual chance and 0.2% annual chance flood events	FutFldExpPol	Polygon
	Develop high-level, region-wide, and largely GIS-based future condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, both 1.0% annual chance and 0.2% annual chance flood events	FutFldExpLn	Polyline
	Develop high-level, region-wide, and largely GIS-based Future condition flood exposure analyses using the information identified in the flood hazard analysis to identify who and what might be harmed within the region for, at a minimum, both 1.0%	FutFldExpPt	Point

Item Name	Description	Feature Class Name	Data Format (Polygon/Line/ Point/GDB Table)
	annual chance and 0.2% annual chance flood events		
Future Exposure	Combines the Exposure Poly, Line, and Point data into a single master layer, also includes Vulnerability data	FutFldExpAll	Point



Key to Features

- County Seat
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Existing Infrastructure

- Dam
- LWC
- Sink Holes
- Levee
- Lake/Reservoir
- Park
- Preserve
- Wetland

* Entities do not want to publicly show information they provided related to flood infrastructure like storm-related systems on a map

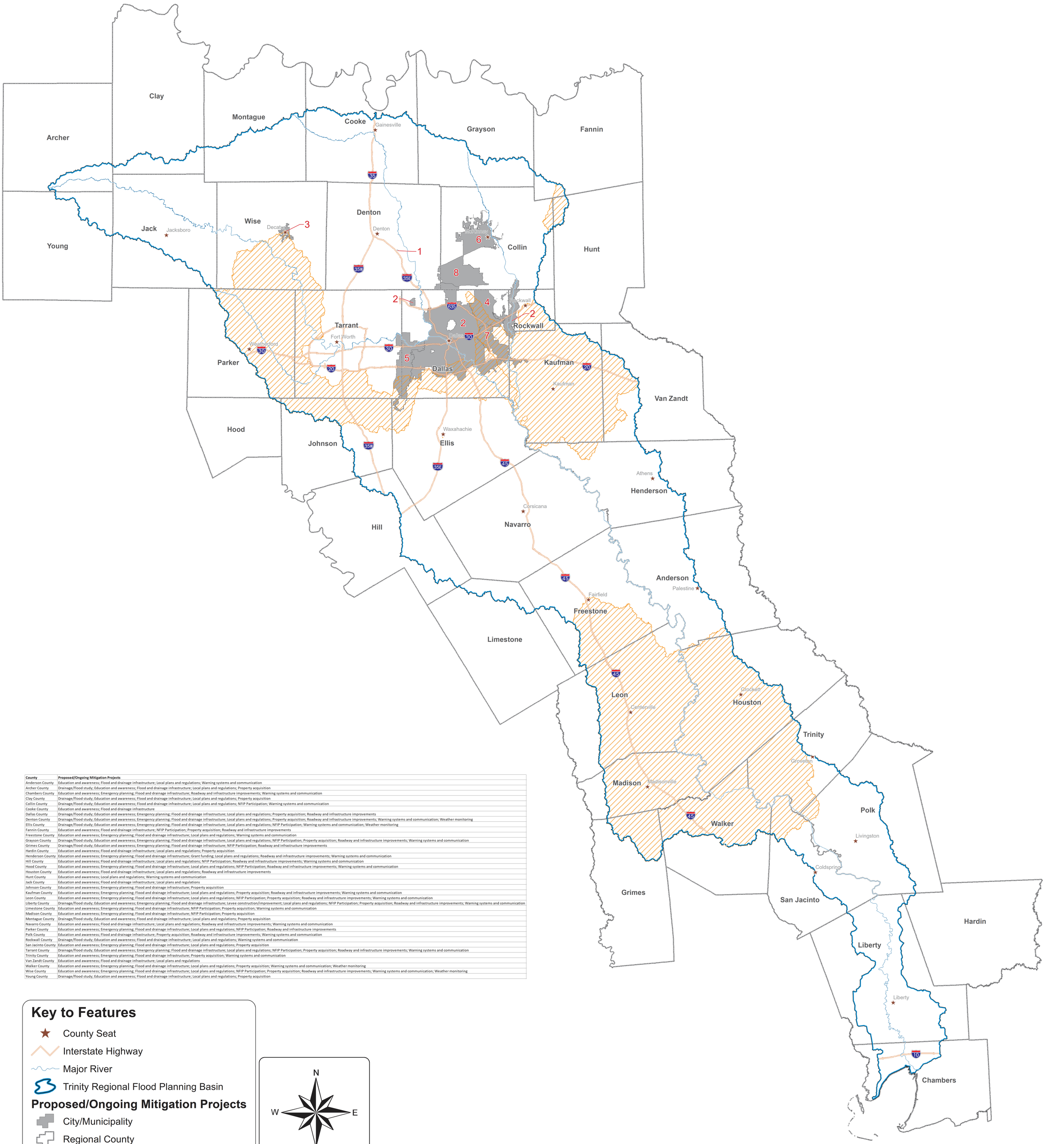
N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 1
Existing Flood Infrastructure

Entity Key	Entity	Proposed/Ongoing Mitigation Projects
1.	City of Corinth	Grant funding
2.	City of Dallas	Education and awareness; Emergency planning; Flood and drainage infrastructure; Levee construction/improvement; Local plans and regulations; Property acquisition; Warning systems and communication
3.	City of Decatur	Education and awareness; Emergency planning; Local plans and regulations; Warning systems and communication
4.	City of Garland	Drainage/flood study; Flood and drainage infrastructure; Local plans and regulations
5.	City of Grand Prairie	Flood and drainage infrastructure; Warning systems and communication
6.	City of McKinney	Education and awareness; Emergency planning; Local plans and regulations; Warning systems and communication
7.	City of Mesquite	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Participation in NFIP; Warning systems and communication
8.	City of Plano	Emergency planning; Flood and drainage infrastructure; Property acquisition
	TWDB FIF Category 1	Drainage/flood study; Flood and drainage infrastructure; Local plans and regulations



County	Proposed/Ongoing Mitigation Projects
Anderson County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Warning systems and communication
Archer County	Drainage/flood study; Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Property acquisition
Chambers County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Roadway and infrastructure improvements; Warning systems and communication
Clay County	Drainage/flood study; Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Property acquisition
Collin County	Drainage/flood study; Education and awareness; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Warning systems and communication
Cooke County	Education and awareness; Flood and drainage infrastructure
Dallas County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Property acquisition; Roadway and infrastructure improvements
Denton County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication; Weather monitoring
Ellis County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Warning systems and communication; Weather monitoring
Fannin County	Education and awareness; Flood and drainage infrastructure; NFIP Participation; Property acquisition; Roadway and infrastructure improvements
Freestone County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Warning systems and communication
Grayson County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication
Grimes County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; NFIP Participation; Roadway and infrastructure improvements
Hardin County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Property acquisition
Henderson County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Grant funding; Local plans and regulations; Roadway and infrastructure improvements; Warning systems and communication
Hill County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Roadway and infrastructure improvements; Warning systems and communication
Hood County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Roadway and infrastructure improvements; Warning systems and communication
Houston County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Roadway and infrastructure improvements
Hunt County	Education and awareness; Local plans and regulations; Warning systems and communication
Jack County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations
Johnson County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Property acquisition
Kaufman County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication
Leon County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication
Liberty County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; Levee construction/improvement; Local plans and regulations; NFIP Participation; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication
Limestone County	Education and awareness; Emergency planning; Flood and drainage infrastructure; NFIP Participation; Property acquisition; Warning systems and communication
Madison County	Education and awareness; Emergency planning; Flood and drainage infrastructure; NFIP Participation; Property acquisition
Montague County	Drainage/flood study; Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Property acquisition
Navarro County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Roadway and infrastructure improvements; Warning systems and communication
Parker County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Roadway and infrastructure improvements
Polk County	Education and awareness; Flood and drainage infrastructure; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication
Rockwall County	Drainage/flood study; Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Warning systems and communication
San Jacinto County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Property acquisition
Tarrant County	Drainage/flood study; Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication
Trinity County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Property acquisition; Warning systems and communication
Van Zandt County	Education and awareness; Flood and drainage infrastructure; Local plans and regulations
Walker County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; Property acquisition; Warning systems and communication; Weather monitoring
Wise County	Education and awareness; Emergency planning; Flood and drainage infrastructure; Local plans and regulations; NFIP Participation; Property acquisition; Roadway and infrastructure improvements; Warning systems and communication; Weather monitoring
Young County	Drainage/flood study; Education and awareness; Flood and drainage infrastructure; Local plans and regulations; Property acquisition

Key to Features

- County Seat
- Interstate Highway
- Major River
- Trinity Regional Flood Planning Basin

Proposed/Ongoing Mitigation Projects

- City/Municipality
- Regional County
- TWDB FIF Category 1

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 2
Proposed or Ongoing Flood Mitigation Projects

Clay
Henrietta
Montague
Montague
Archer
Archer City
Cooke
Gainesville
Grayson
Sherman
Bonham
Fannin
Young
Graham
Jack
Jacksboro
Wise
Decatur
Denton
Denton
Collin
McKinney
Greenville
Hunt
Parker
Weatherford
Fort Worth
Tarrant
Dallas
Dallas
Rockwall
Rockwall
Van Zandt
Canton
Kaufman
Kaufman
Hood
Granbury
Johnson
Cleburne
Ellis
Waxahachie
Hill
Hillsboro
Navarro
Corsicana
Henderson
Athens
Limestone
Groesbeck
Freestone
Fairfield
Anderson
Palestine
Leon
Centerville
Madison
Madisonville
Houston
Crockett
Trinity
Grovetown
Walker
Huntsville
Polk
Livingston
Coldspring
Grimes
Anderson
San Jacinto
Liberty
Liberty
Hardin
Kountze
Chambers
Anahuac

Key to Features

- ★ County Seat
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County
- Non-Accredited Levee

Dam Condition

- Fair
- Poor
- Breached

* Entities did not provide information regarding non-functional or deficient flood mitigation features or infrastructure

N
W
E
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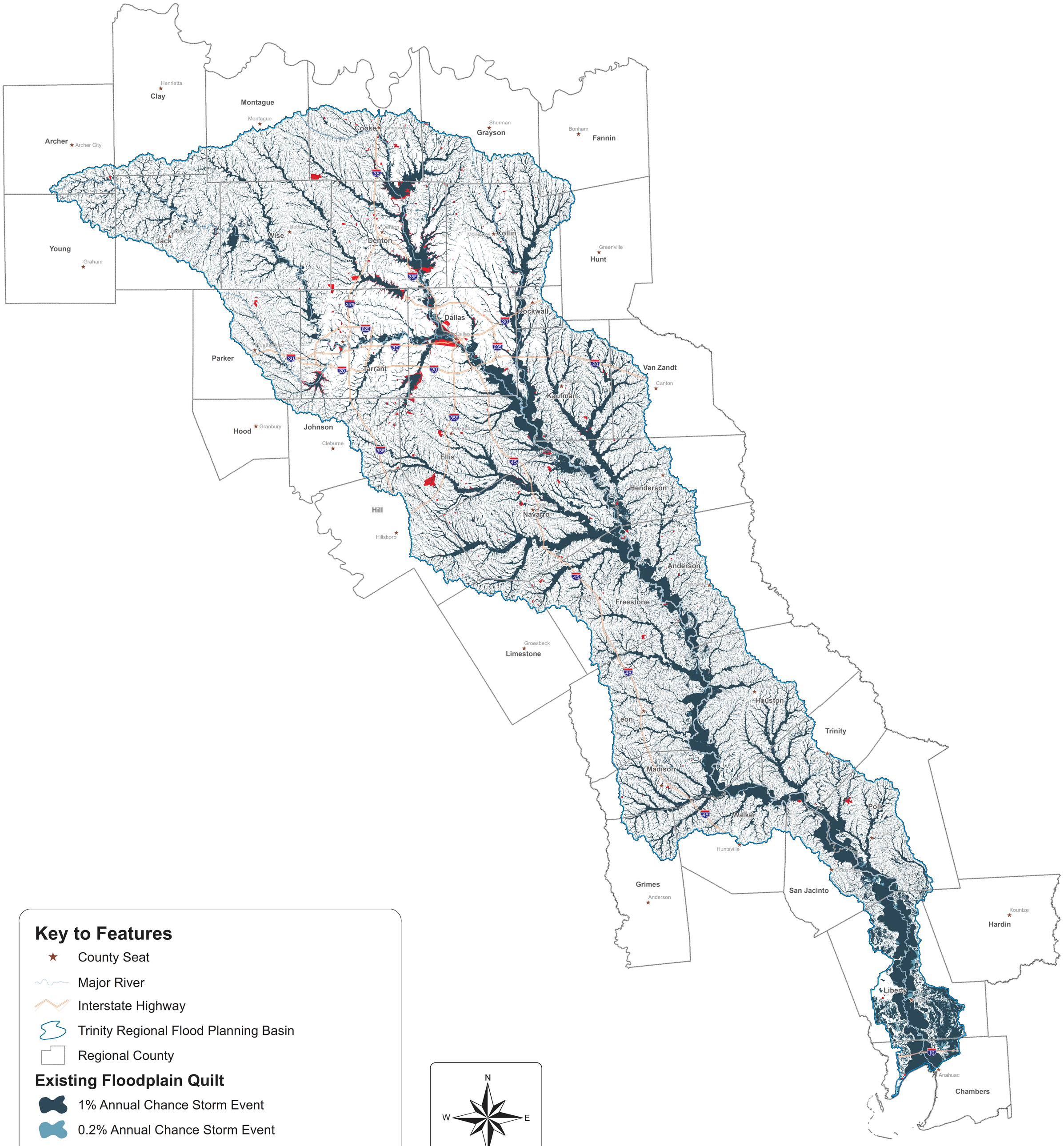
0 20 40 80 120 Miles

Region 3 - Trinity

Map 3
Non-Functional or Deficient Flood Mitigation Infrastructure



Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Existing Floodplain Quilt

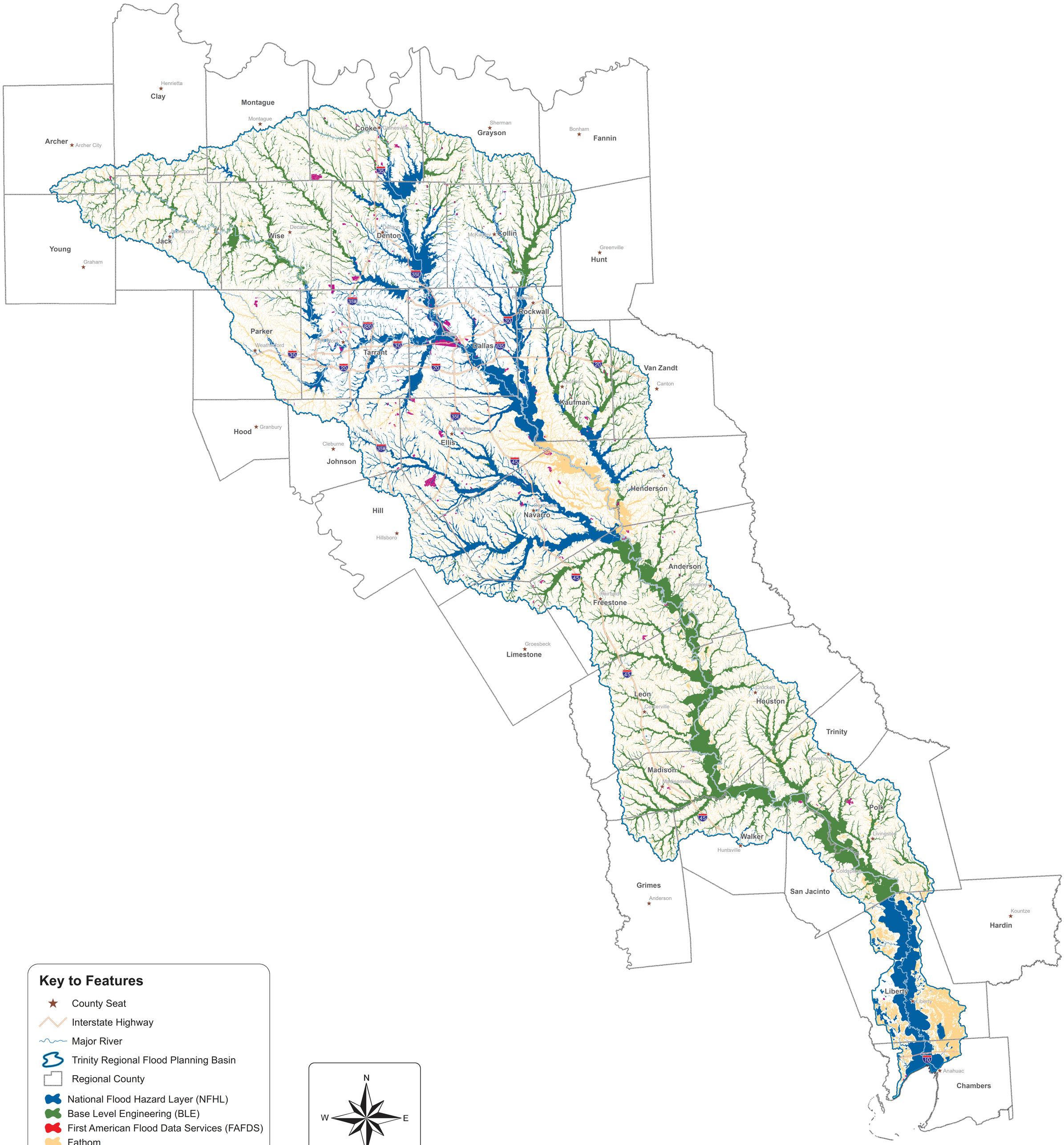
- 1% Annual Chance Storm Event
- 0.2% Annual Chance Storm Event
- Other Flood Prone Areas

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 4
Existing Conditions Flood Hazard



Key to Features

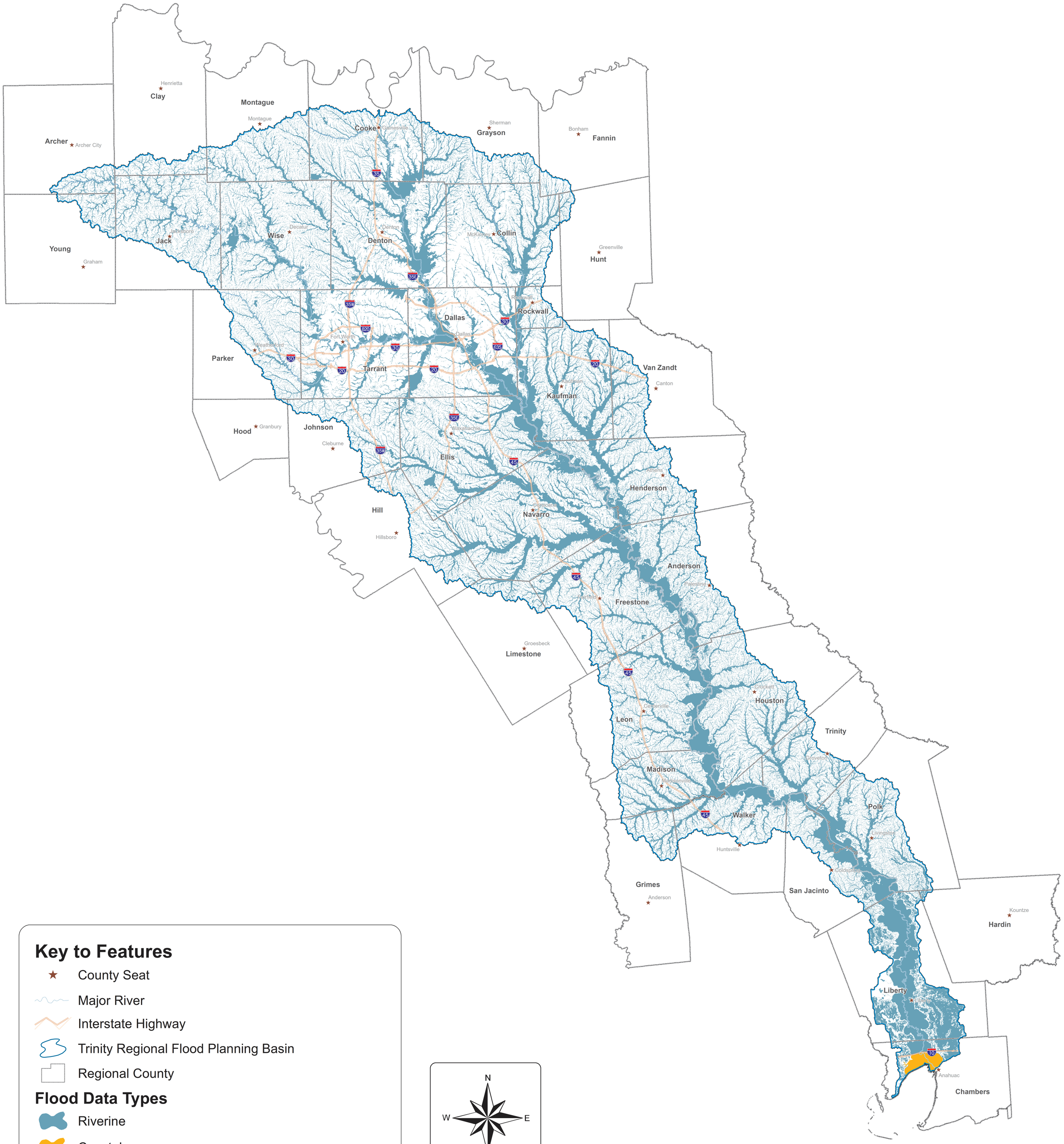
- ★ County Seat
- Interstate Highway
- Major River
- Trinity Regional Flood Planning Basin
- Regional County
- National Flood Hazard Layer (NFHL)
- Base Level Engineering (BLE)
- First American Flood Data Services (FAFDS)
- Fathom
- Other Public Datasets

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 4.1
Flood Data Sources



Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Flood Data Types

- Riverine
- Coastal

N W E S

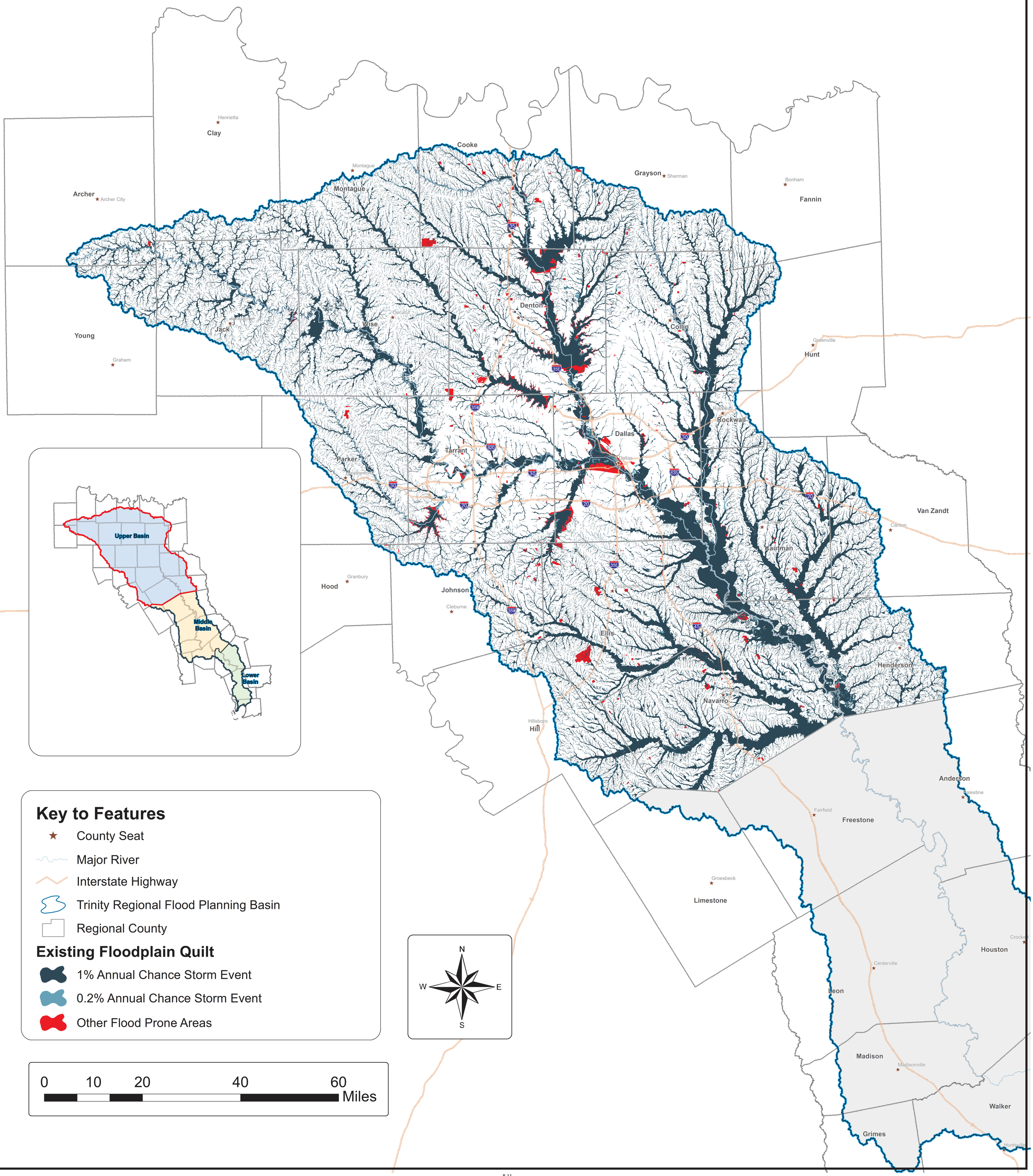
0 20 40 80 120 Miles

Region 3 - Trinity

Map 4.2
Flood Data Types

Region 3 - Trinity

Map 4.3
Existing Condition Flood Hazard (Upper Basin)



Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Existing Floodplain Quilt

- 1% Annual Chance Storm Event
- 0.2% Annual Chance Storm Event
- Other Flood Prone Areas

Region 3 - Trinity

Map 4.4
Existing Condition Flood Hazard (Middle Basin)

Kaufman
Van Zandt
Waxahachie
Ellis
Henderson
Athens
Corsicana
Navarro
Hill
Anderson
Freestone
Limestone
Groesbeck
Houston
Leon
Madison
Trinity
Polk
Walker
Huntsville
Livingston
Coldspring
San Jacinto
Liberty

Upper Basin
Middle Basin
Lower Basin

Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Existing Floodplain Quilt

- 1% Annual Chance Storm Event
- 0.2% Annual Chance Storm Event
- Other Flood Prone Areas

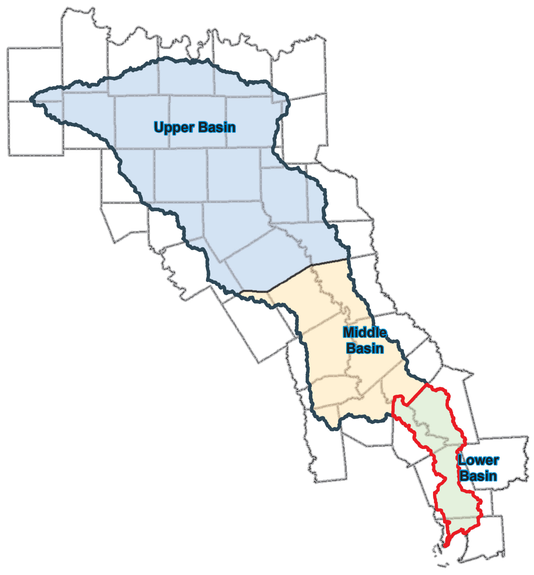
N
W
E
S

0 6 12 24 36 Miles

Region 3 - Trinity

Map 4.5
Existing Condition Flood Hazard (Lower Basin)

Houston
Trinity
Walker
San Jacinto
Polk
Hardin
Liberty
Chambers
Crockett
Huntsville
Coldspring
Livingston
Anahuac



Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Existing Floodplain Quilt

- 1% Annual Chance Storm Event
- 0.2% Annual Chance Storm Event
- Other Flood Prone Areas

N
W
E
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0 3 6 12 18 Miles

Henrietta
Clay
Montague
Montague
Archer
Archer City
Cooke
Gainesville
Sherman
Grayson
Bonham
Fannin
Young
Graham
Jacksboro
Jack
Wise
Decatur
Denton
Denton
McKinney
Collin
Greenville
Hunt
Parker
Weatherford
Fort Worth
Tarrant
Dallas
Dallas
Rockwall
Rockwall
Van Zandt
Kaufman
Canton
Kaufman
Hood
Granbury
Cleburne
Johnson
Waxahachie
Ellis
Hill
Hillsboro
Corsicana
Navarro
Athens
Henderson
Anderson
Palestine
Fairfield
Freestone
Groesbeck
Limestone
Leon
Centerville
Crockett
Houston
Trinity
Groveton
Madison
Madisonville
Polk
Livingston
Walker
Huntsville
Coldspring
Grimes
Anderson
San Jacinto
Kountze
Hardin
Liberty
Liberty
Anahuac
Chambers

Key to Features

- County Seat
- Interstate Highway
- Major River
- Trinity Regional Flood Planning Basin
- Regional County
- Atlas14 Impact Counties
- Effective Date Prior to 2012
- Effective Non-Modernized Counties

N
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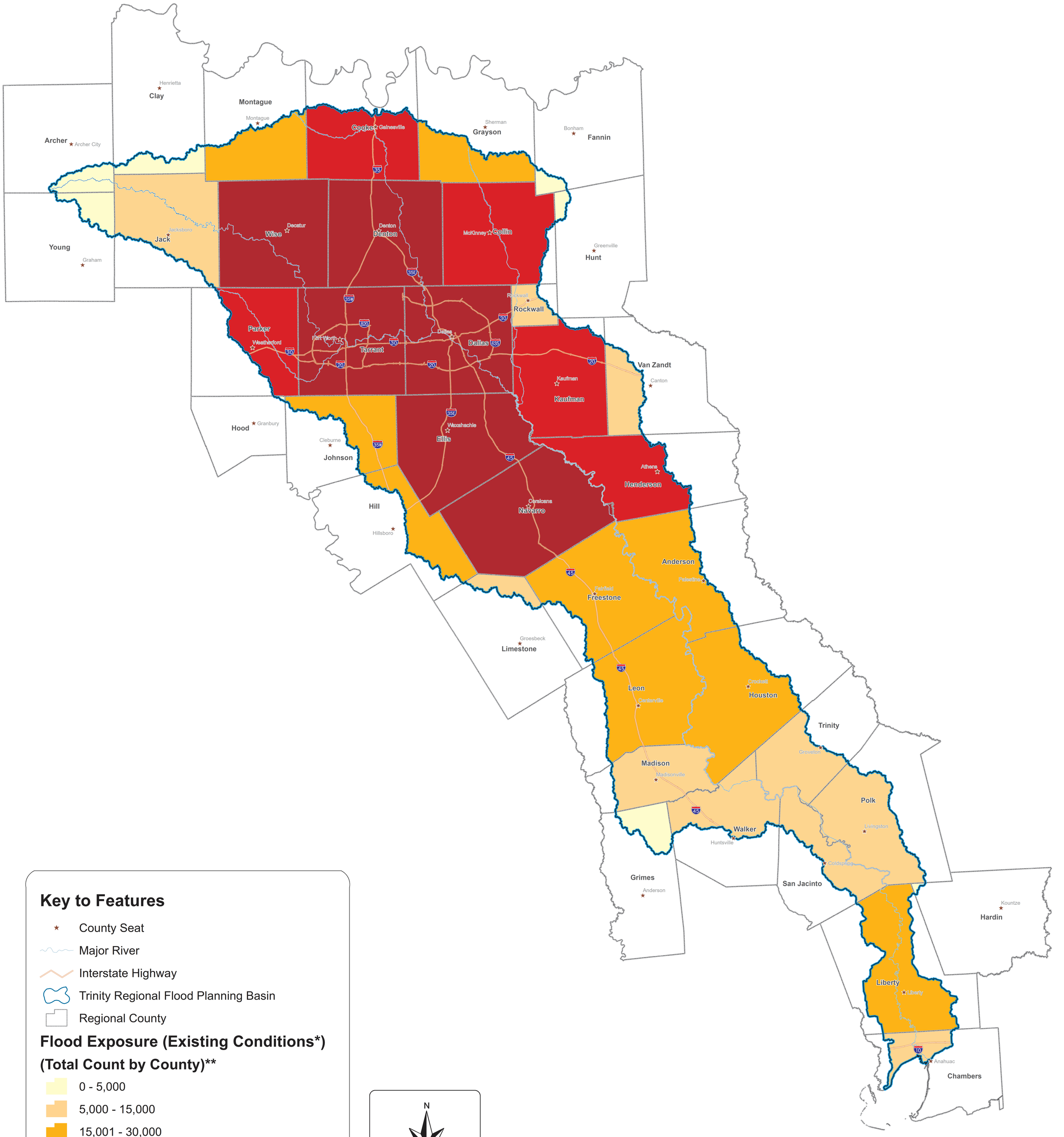
0 20 40 80 120 Miles

Region 3 - Trinity

Map 5
Existing Condition
Flood Hazard Gaps



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Flood Exposure (Existing Conditions*)

(Total Count by County)**

- 0 - 5,000
- 5,000 - 15,000
- 15,001 - 30,000
- 30,001 - 50,000
- 50,001 - 81,488

*Combination of 1% and 0.2% Annual Chance Storm Events

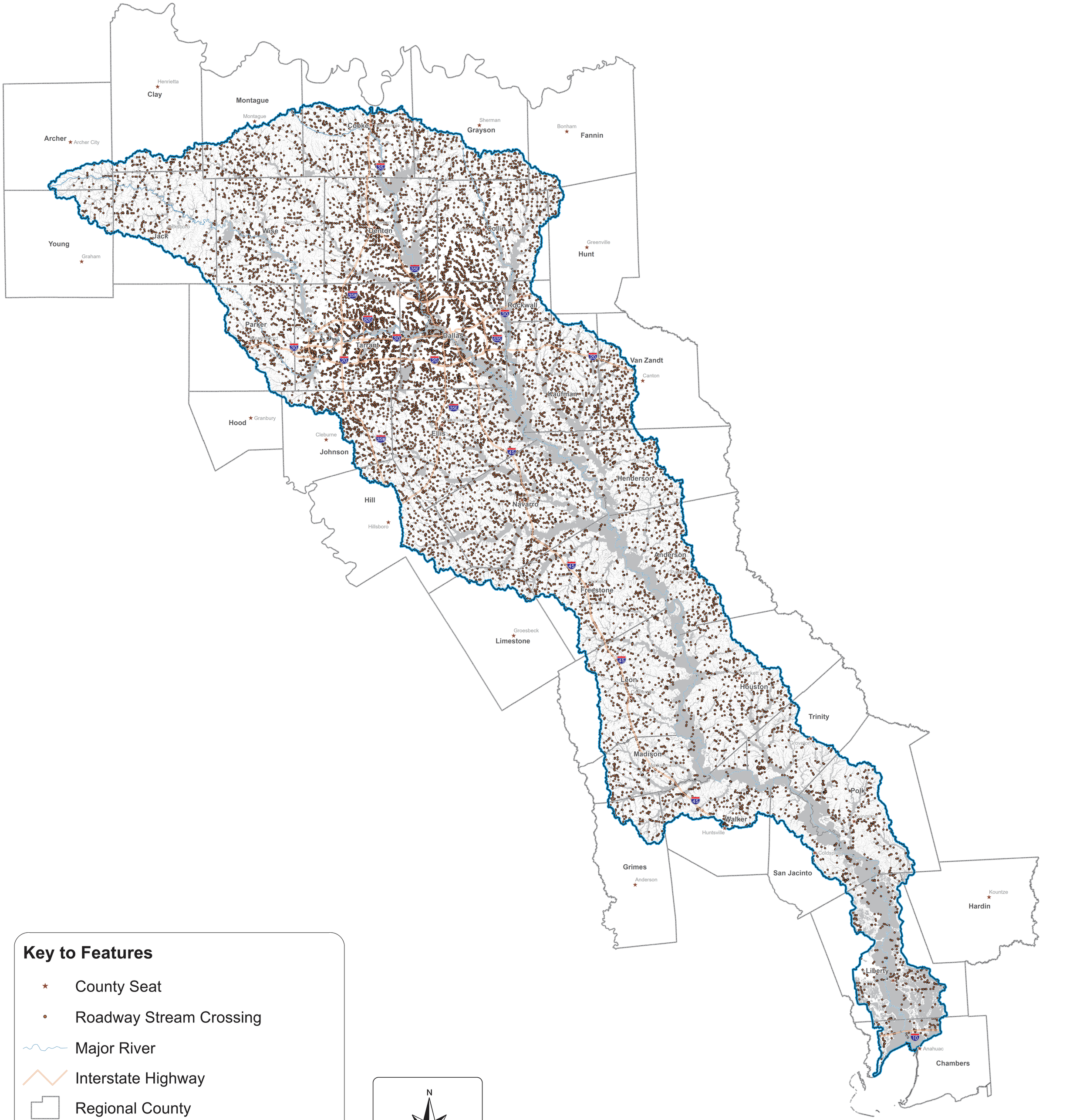
*Total Count in **ExFldExpAll** layer (buildings, critical facilities, LWC, roadway stream crossings, agricultural land, etc.)

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 6
Existing Condition Flood Exposure



Region 3 - Trinity

Map 6.1
Existing Condition Flood Exposure - Point Features

Key to Features

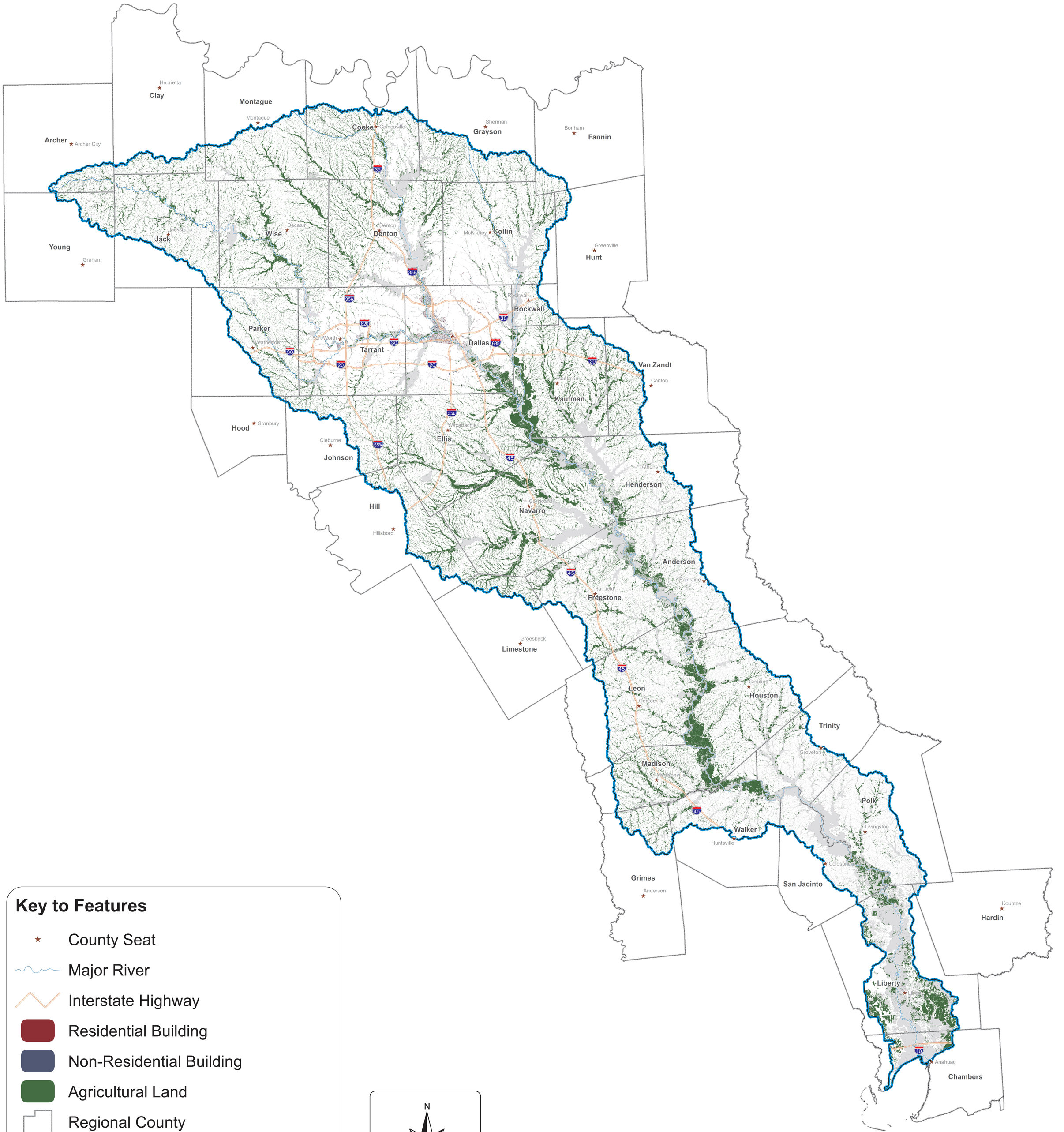
- County Seat
- Roadway Segment
- Other
- Major River
- Interstate Highway
- Regional County
- Existing Flood Hazard (ExFldHazard)
- Trinity Regional Flood Planning Basin

N
W E
S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 6.2
Existing Condition Flood Exposure - Line Features



Key to Features

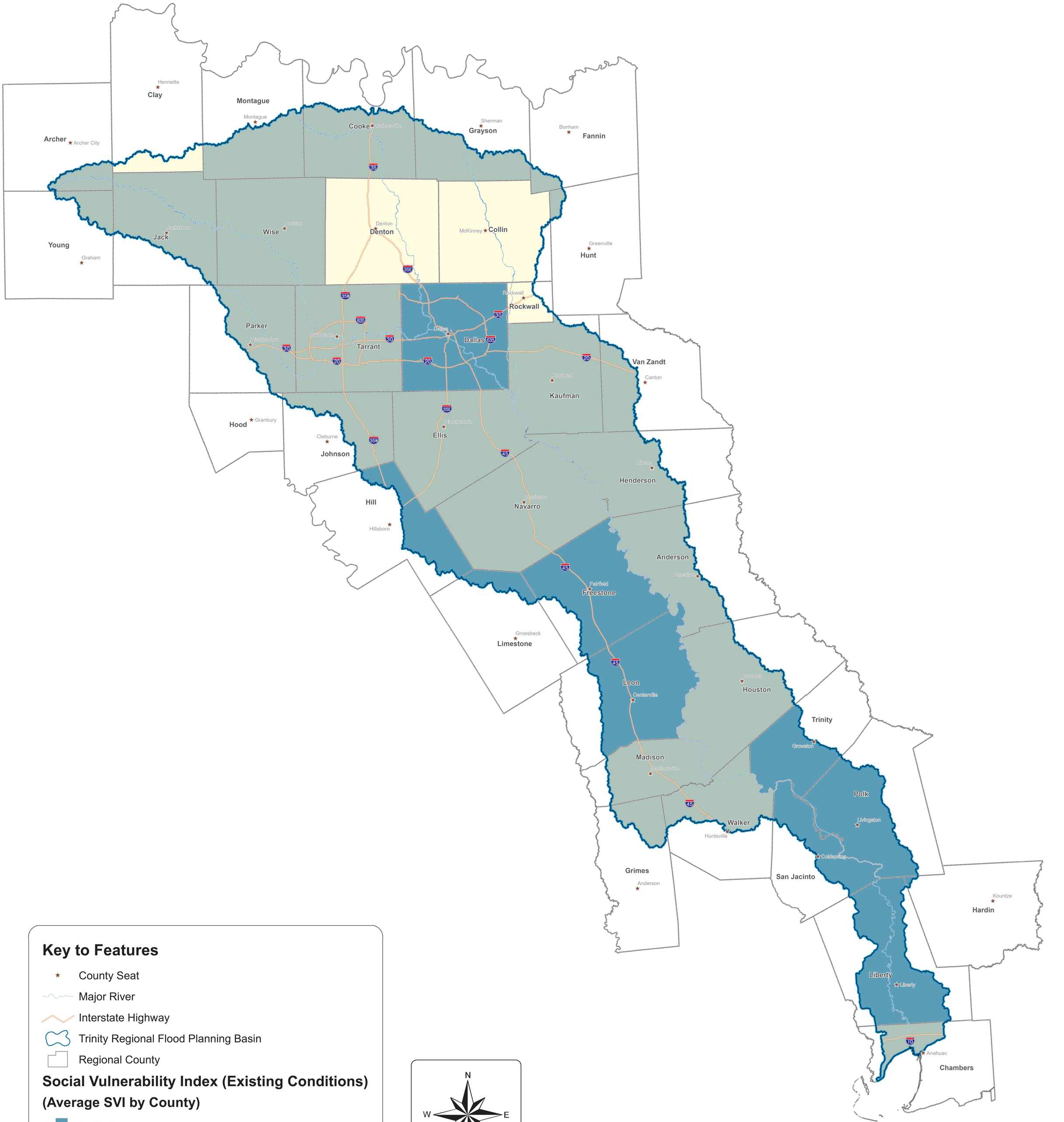
- County Seat
- Major River
- Interstate Highway
- Residential Building
- Non-Residential Building
- Agricultural Land
- Regional County
- Existing Flood Hazard (ExFldHazard)
- Trinity Regional Flood Planning Basin

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 6.3
Existing Condition Flood Exposure - Polygon Features



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Social Vulnerability Index (Existing Conditions)
(Average SVI by County)

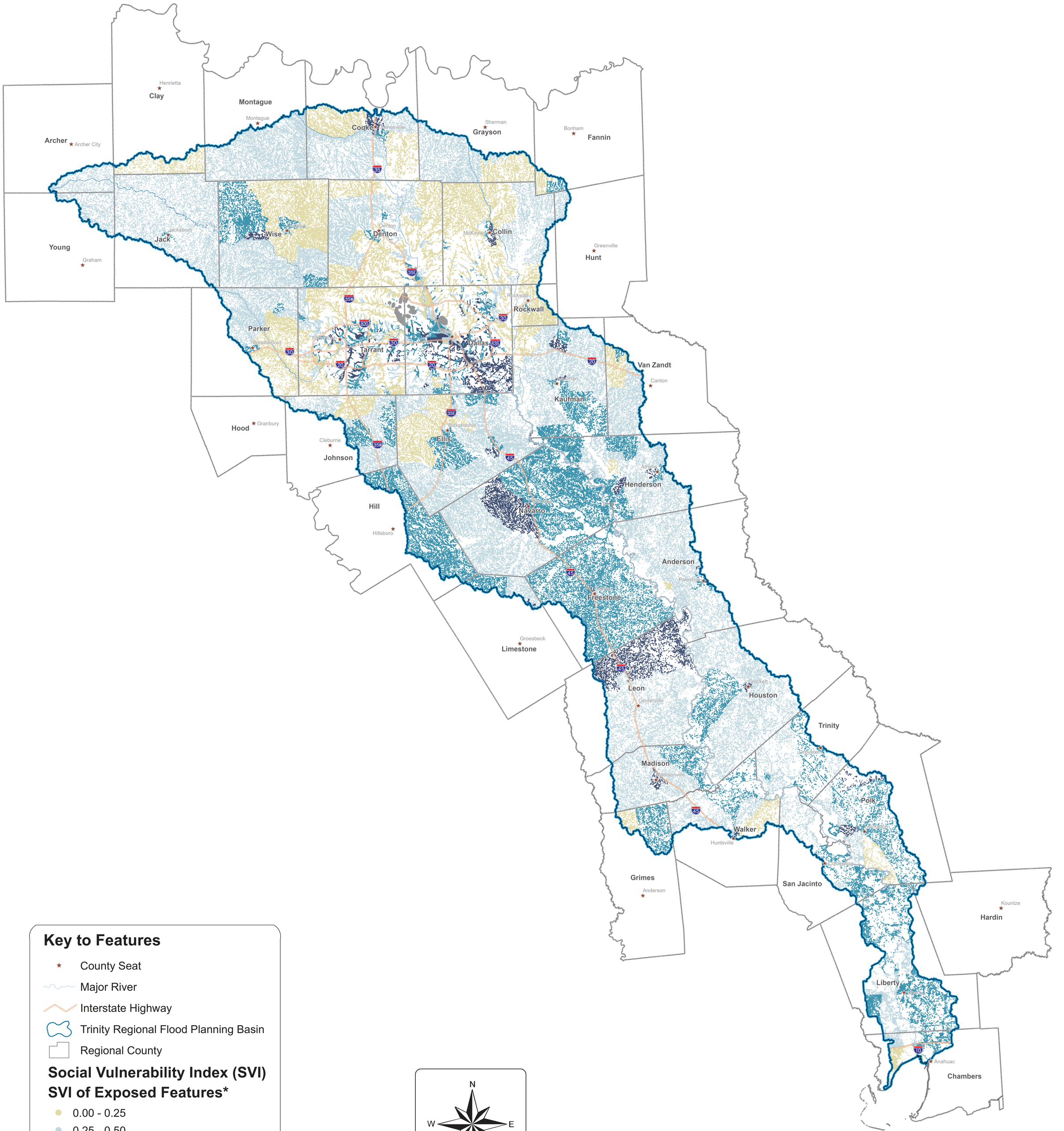
- 0.50 - 0.75
- 0.25 - 0.50
- 0.00 - 0.25

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 7
Existing Flood Exposure Vulnerability
SVI Average per County



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Social Vulnerability Index (SVI)
SVI of Exposed Features*

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- NoData

*SVI Data is by Census Tract

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 7.1
Existing Flood Exposure Vulnerability
SVI of Exposed Features

Archer
Archer City
Clay
Henrietta
Montague
Montague
Cooke
Gainesville
Grayson
Sherman
Bonham
Fannin
Young
Graham
Jack
Jacksboro
Wise
Decatur
Denton
Denton
Collin
McKinney
Hunt
Greenville
Parker
Weatherford
Tarrant
Fort Worth
Dallas
Dallas
Rockwall
Rockwall
Van Zandt
Canton
Kaufman
Kaufman
Hood
Granbury
Johnson
Cleburne
Ellis
Waxahachie
Henderson
Athens
Hill
Hillsboro
Navarro
Corsicana
Anderson
Palestine
Freestone
Fairfield
Limestone
Groesbeck
Leon
Centerville
Houston
Crockett
Madison
Madisonville
Trinity
Groveton
Polk
Livingston
Walker
Huntsville
Grimes
Anderson
San Jacinto
Coldspring
Hardin
Kountze
Liberty
Liberty
Chambers
Anahuac

Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Existing Condition Vulnerability
Exposed Assets with SVI >=0.75

- Building
- Agricultural Land
- Power Generation
- Roadway Segment/Stream Crossing
- Other Critical Facilities

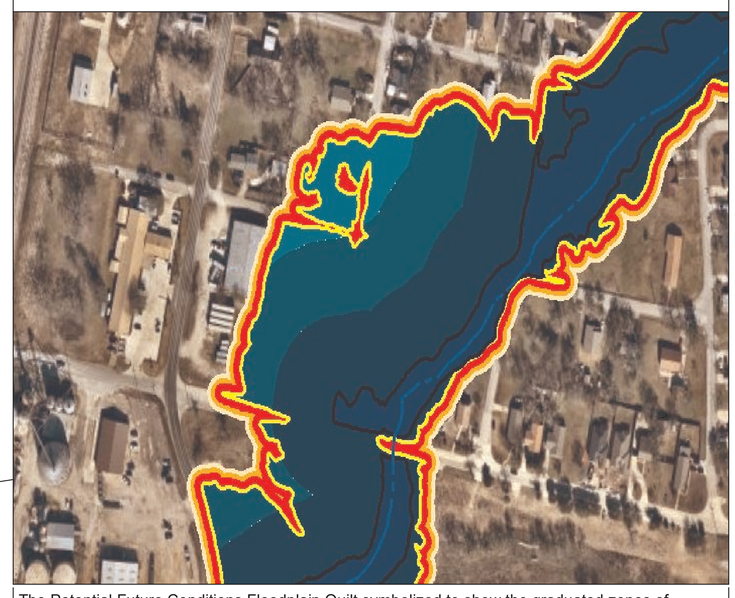
N
W
E
S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 7.2
Existing Flood Exposure Vulnerability
High SVI Exposed Features

POTENTIAL FUTURE CONDITIONS FLOOD RISK - LARGE SCALE



The Potential Future Conditions Floodplain Quilt symbolized to show the graduated zones of potential minimum and maximum extents for the future mapping at a larger scale.

Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Future Floodplain Quilt [As of January 2022]

- Minimum Potential Future 1% Annual Chance Storm Event
- Maximum Potential Future 1% Annual Chance Storm Event
- Minimum Potential Future 0.2% Annual Chance Storm Event
- Maximum Potential Future 0.2% Annual Chance Storm Event

N W E S

0 20 40 80 120 Miles

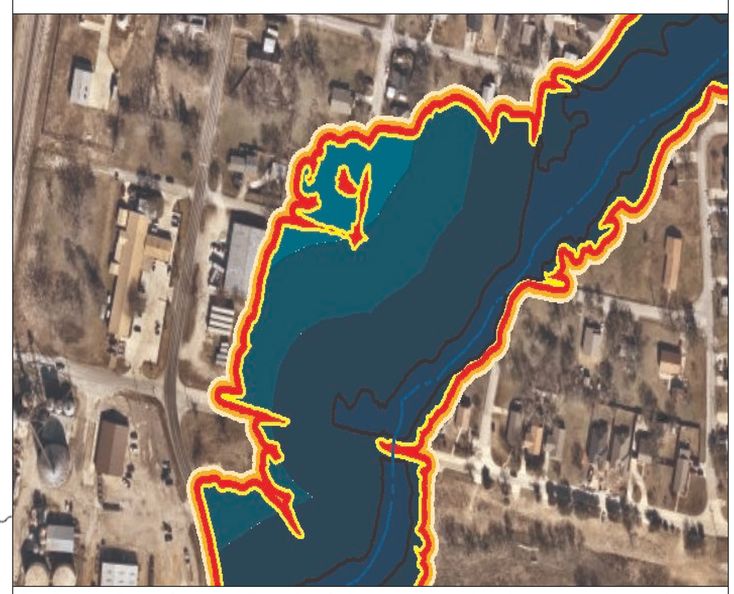
Region 3 - Trinity

Map 8
Future Conditions Flood Hazard

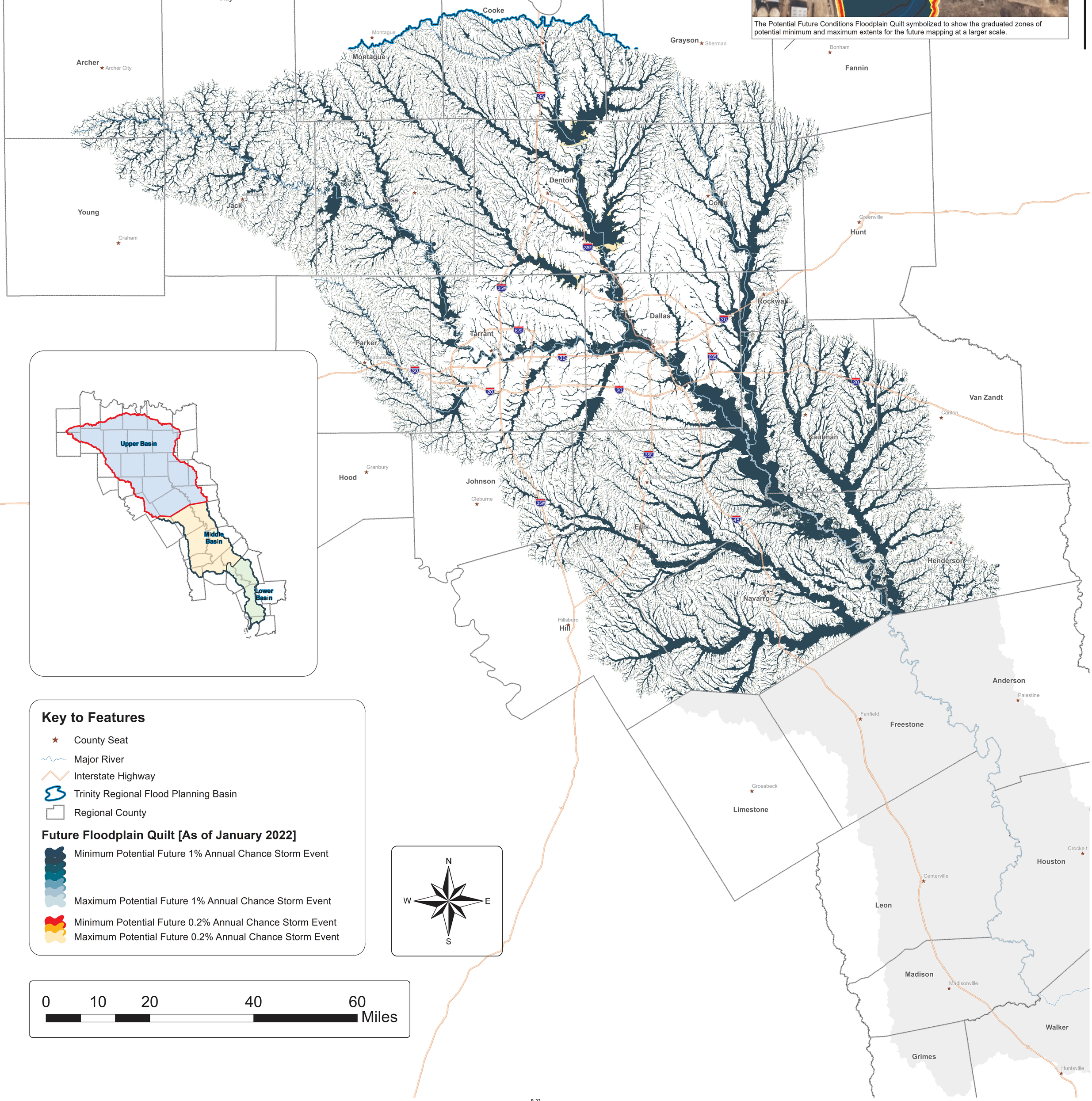
Region 3 - Trinity

Map 8.1
Future Condition Flood Hazard (Upper Basin)

POTENTIAL FUTURE CONDITIONS FLOOD RISK - LARGE SCALE



The Potential Future Conditions Floodplain Quilt symbolized to show the graduated zones of potential minimum and maximum extents for the future mapping at a larger scale.



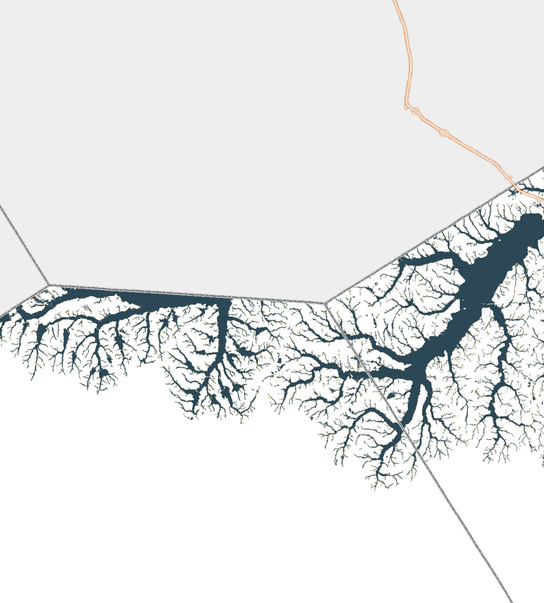
Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Future Floodplain Quilt [As of January 2022]

- Minimum Potential Future 1% Annual Chance Storm Event
- Maximum Potential Future 1% Annual Chance Storm Event
- Minimum Potential Future 0.2% Annual Chance Storm Event
- Maximum Potential Future 0.2% Annual Chance Storm Event

The Potential Future Conditions Floodplain Quilt symbolized to show the graduated zones of potential minimum and maximum extents for the future mapping at a larger scale.



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Future Floodplain Quilt [As of January 2022]

- Minimum Potential Future 1% Annual Chance Storm Event
- Maximum Potential Future 1% Annual Chance Storm Event
- Minimum Potential Future 0.2% Annual Chance Storm Event
- Maximum Potential Future 0.2% Annual Chance Storm Event

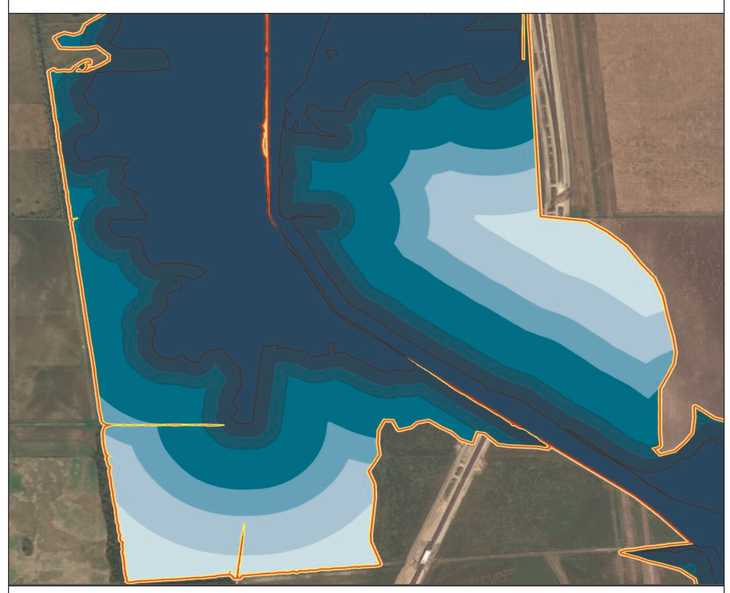
0 6 12 24 36 Miles

N W E S

Region 3 - Trinity

Map 8.3
Future Condition Flood Hazard (Lower Basin)

POTENTIAL FUTURE CONDITIONS FLOOD RISK - LARGE SCALE



The Potential Future Conditions Floodplain Quilt symbolized to show the graduated zones of potential minimum and maximum extents for the future mapping at a larger scale.

Key to Features

- ★ County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

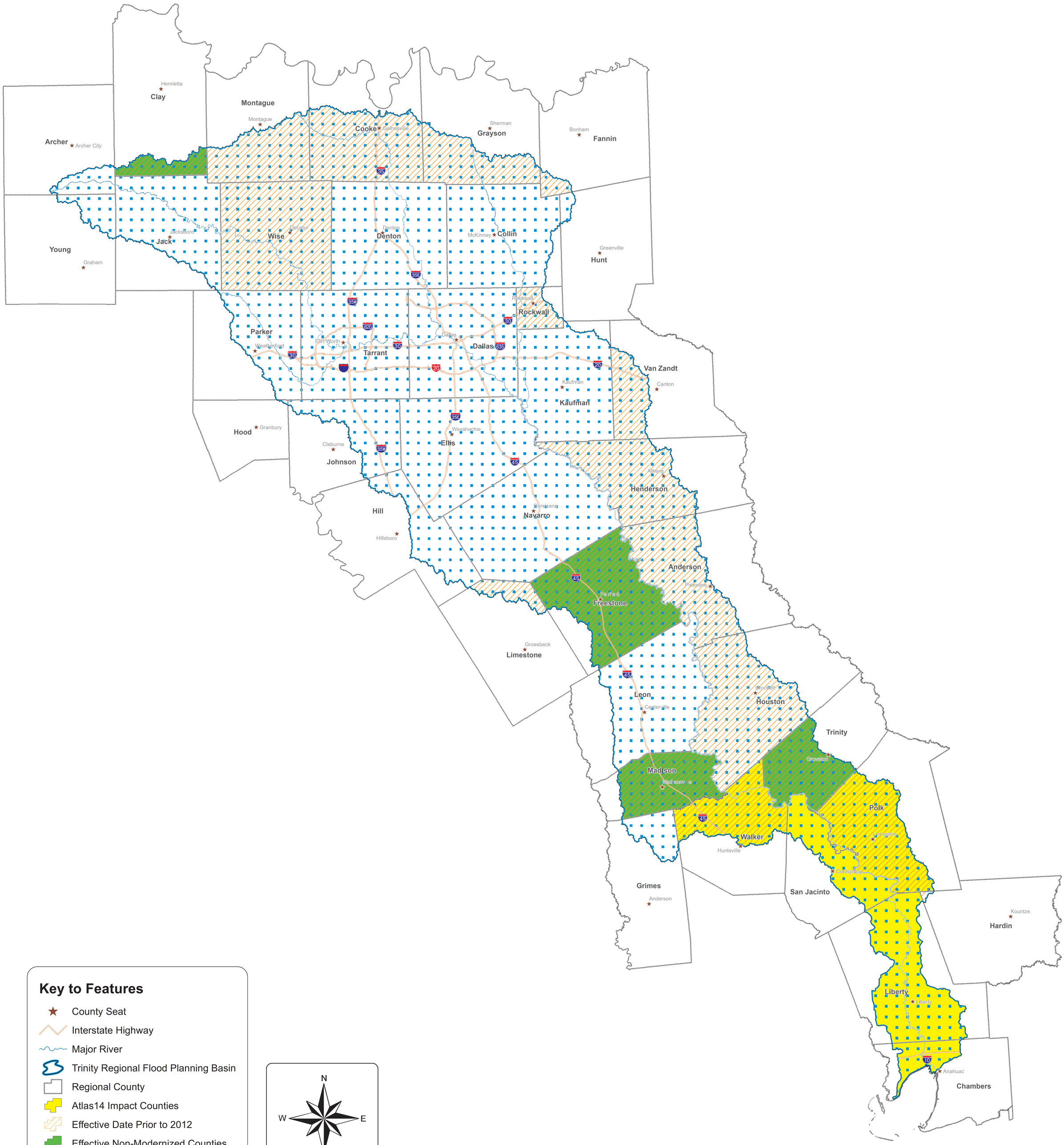
Future Floodplain Quilt [As of January 2022]

- Minimum Potential Future 1% Annual Chance Storm Event
- Maximum Potential Future 1% Annual Chance Storm Event
- Minimum Potential Future 0.2% Annual Chance Storm Event
- Maximum Potential Future 0.2% Annual Chance Storm Event

N
W E
S

0 3 6 12 18 Miles

Houston
Trinity
Walker
Polk
San Jacinto
Hardin
Liberty
Chambers
Groveton
Huntsville
Livingston
Coldspring
Anahuac
I-10



Key to Features

- ★ County Seat
- Interstate Highway
- Major River
- Trinity Regional Flood Planning Basin
- Regional County
- Atlas14 Impact Counties
- Effective Date Prior to 2012
- Effective Non-Modernized Counties
- No Detailed Future Modeling Study and/or Mapping

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 9
Future Condition
Flood Hazard Gaps

Archer
Archer City
Clay
Henrietta
Montague
Montague
Cooke
Gainesville
Grayson
Sherman
Bonham
Fannin
Young
Graham
Jack
Jacksboro
Wise
Decatur
Denton
Denton
Collin
McKinney
Hunt
Greenville
Parker
Weatherford
Tarrant
Fort Worth
Dallas
Rockwall
Rockwall
Van Zandt
Canton
Kaufman
Kaufman
Hood
Granbury
Johnson
Cleburne
Ellis
Waxahachie
Hill
Hillsboro
Navarro
Corsicana
Henderson
Athens
Anderson
Palestine
Freestone
Fairfield
Limestone
Groesbeck
Leon
Centerville
Madison
Madisonville
Houston
Crockett
Trinity
Groveton
Walker
Huntsville
Polk
Livingston
Grimes
Anderson
San Jacinto
Coldspring
Liberty
Hardin
Kountze
Chambers
Anahuac

Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Area of Expanded Risk*

- No Change
- 1% Annual Chance Storm Event Increase
- 0.2% Annual Chance Storm Event Increase

*No Change = Existing 100-year
100-year Increase = Existing 500-year/Potential Future 100-year
500-year Increase = Potential Future 500-year

N
W
E
S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 10

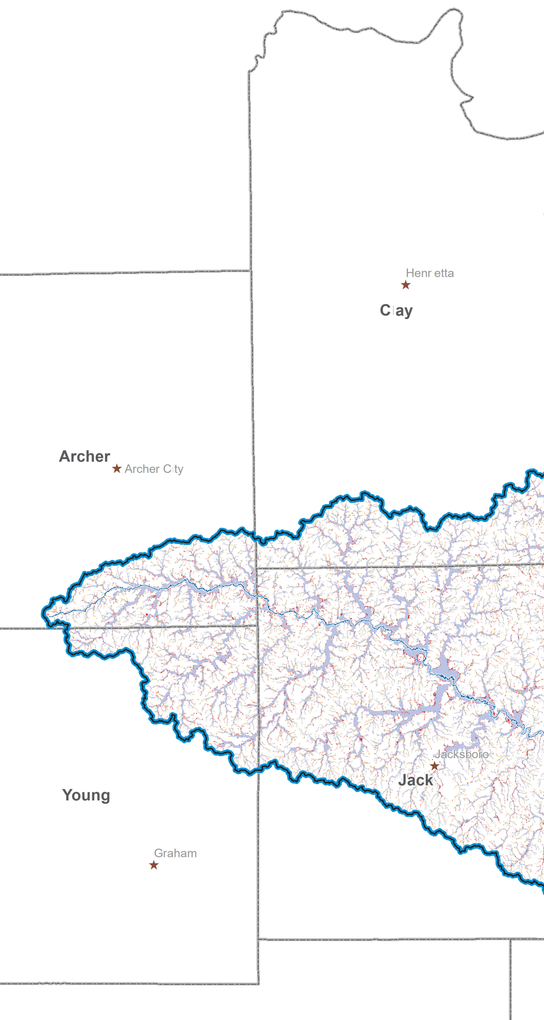
Extent of Increase of Flood Hazard

Comparison of Future Condition to Existing Condition Flood Hazard

Region 3 - Trinity

Map 10.1
Extent of Increase of Flood Hazard (Upper Basin)

Comparison of Future Condition to Existing Condition Flood Hazard



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Area of Expanded Risk*

- No Change
- 1% Annual Chance Storm Event Increase
- 0.2% Annual Chance Storm Event Increase

*No Change = Existing 100-year
100-year Increase = Existing 500-year/Potential Future 100-year
500-year Increase = Potential Future 500-year

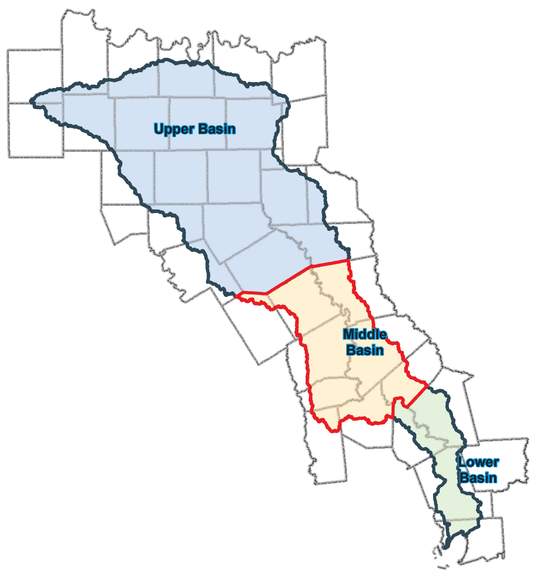
N
W E
S

0 10 20 40 60 Miles

Region 3 - Trinity

Map 10.2
Extent of Increase of Flood Hazard (Middle Basin)

Comparison of Future Condition to Existing Condition Flood Hazard



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Area of Expanded Risk*

- No Change
- 1% Annual Chance Storm Event Increase
- 0.2% Annual Chance Storm Event Increase

*No Change = Existing 100-year
100-year Increase = Existing 500-year/Potential Future 100-year
500-year Increase = Potential Future 500-year

N
W E
S

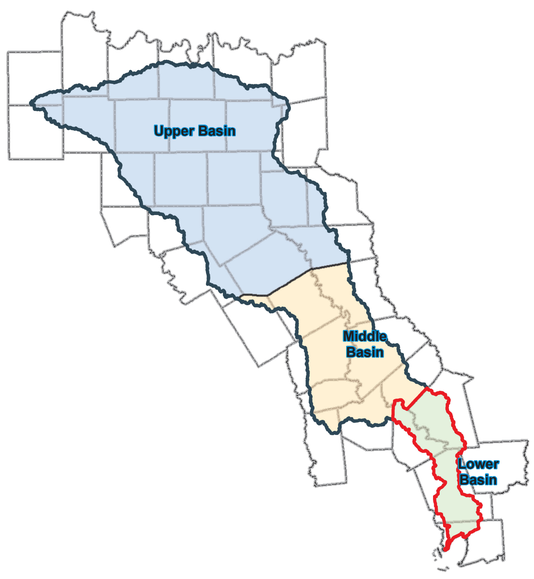
0 6 12 24 36 Miles

Region 3 - Trinity

Map 10.3
Extent of Increase of Flood Hazard (Lower Basin)

Comparison of Future Condition to Existing Condition Flood Hazard

Houston
Trinity
Walker
San Jacinto
Polk
Liberty
Hardin
Chambers
Huntsville
Cleveland
Coldspring
Livingston
Liberty
Anahuac
10



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

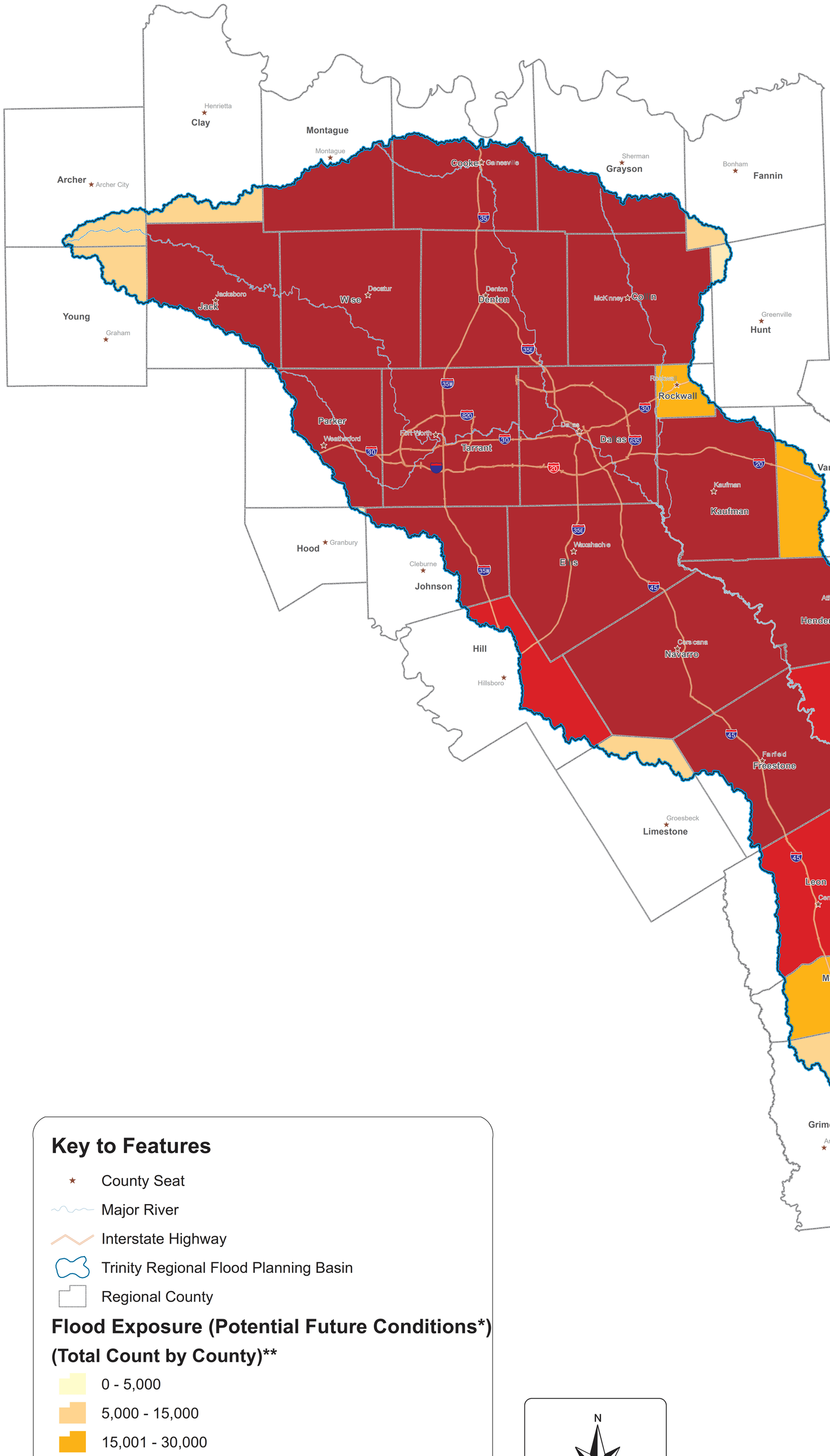
Area of Expanded Risk*

- No Change
- 1% Annual Chance Storm Event Increase
- 0.2% Annual Chance Storm Event Increase

*No Change = Existing 100-year
100-year Increase = Existing 500-year/Potential Future 100-year
500-year Increase = Potential Future 500-year

N
W
E
S

0 3 6 12 18 Miles



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Flood Exposure (Potential Future Conditions*)

(Total Count by County)**

- 0 - 5,000
- 5,000 - 15,000
- 15,001 - 30,000
- 30,001 - 50,000
- 50,001 - 206,373

*Combination of 1% and 0.2% Annual Chance Storm Events

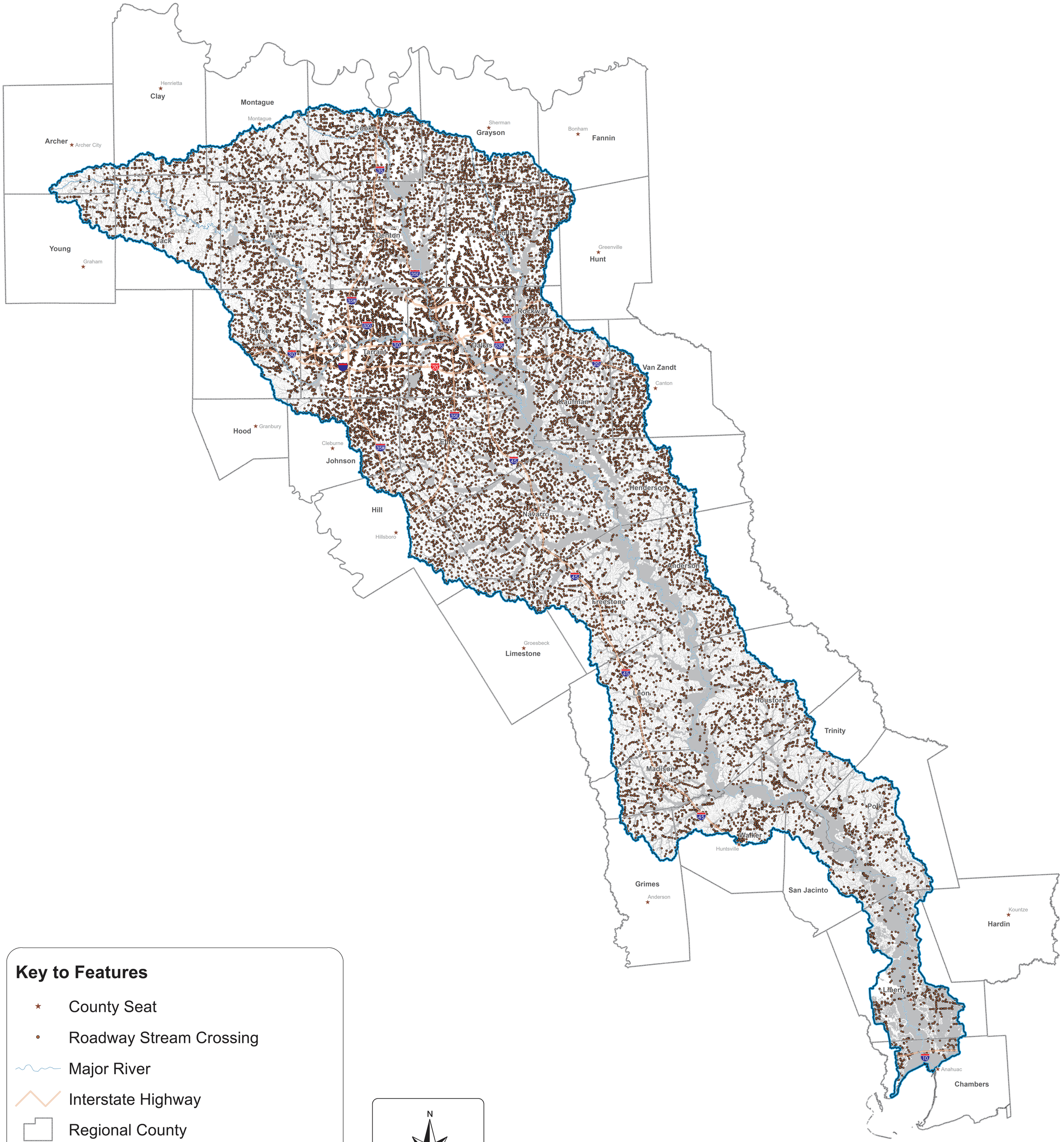
*Total Count in **FutFldExpAll** layer (buildings, critical facilities, LWC, roadway stream crossings, agricultural land, etc.)

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 11
Future Condition Flood Exposure



Key to Features

- County Seat
- Roadway Stream Crossing
- Major River
- Interstate Highway
- Regional County
- Future Flood Hazard (FutFldHazard)
- Trinity Regional Flood Planning Basin

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 11.1
Future Condition Flood Exposure - Point Features

Key to Features

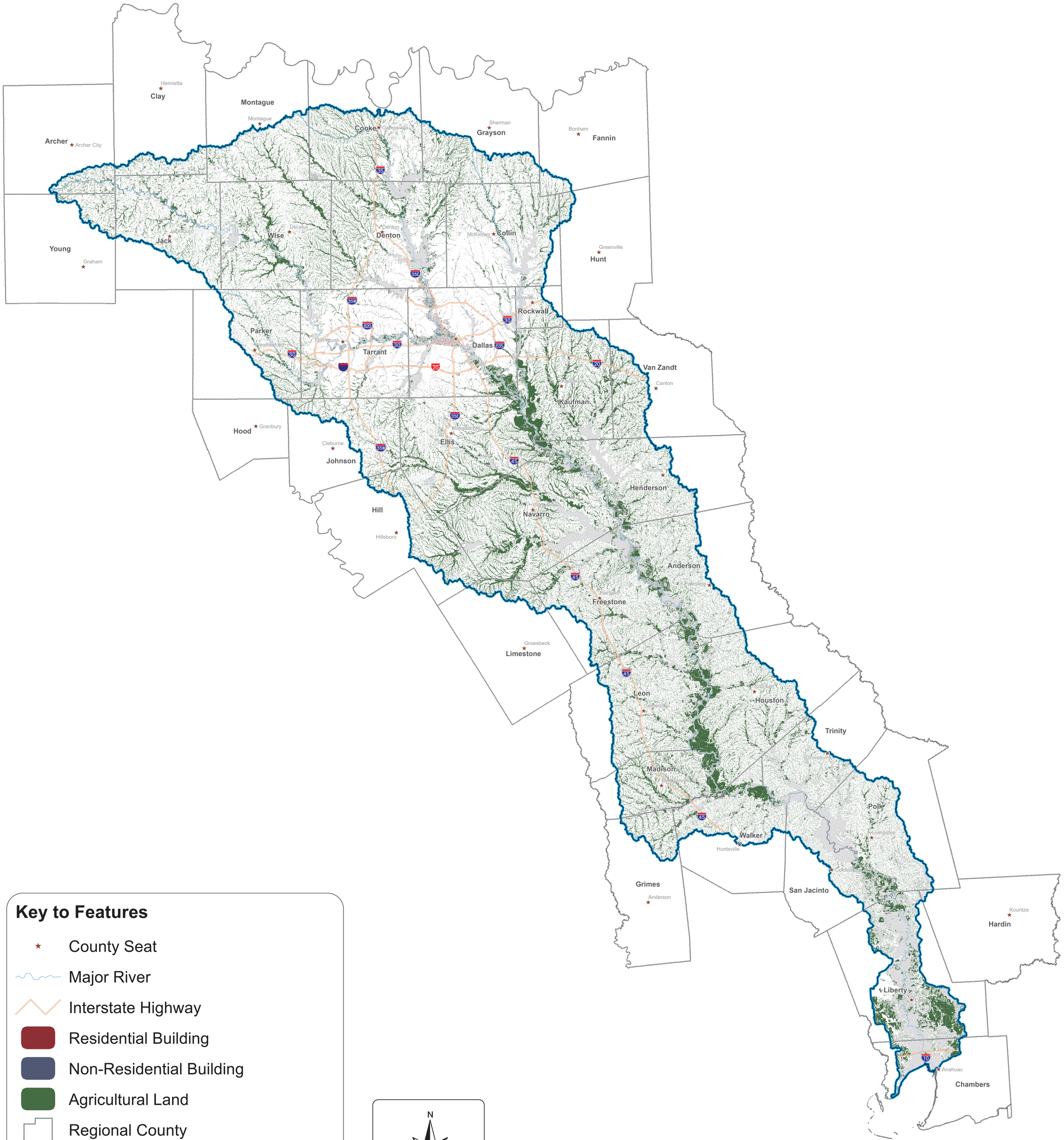
- County Seat
- Roadway Segment
- Other
- Major River
- Interstate Highway
- Regional County
- Future Flood Hazard (FutFldHazard)
- Trinity Regional Flood Planning Basin

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 11.2
Future Condition Flood Exposure - Line Features



Key to Features

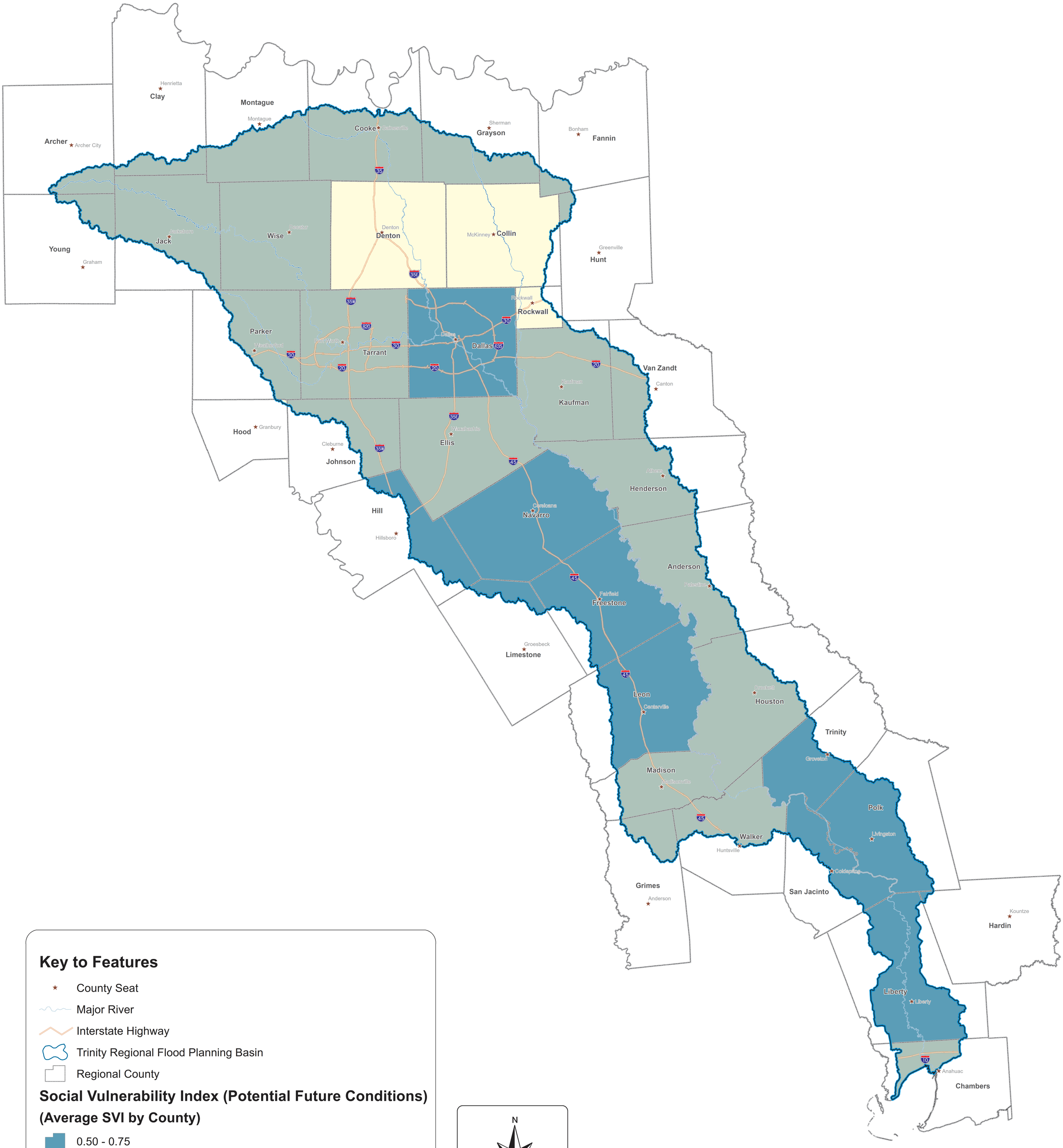
- ★ County Seat
- Major River
- Interstate Highway
- Residential Building
- Non-Residential Building
- Agricultural Land
- Regional County
- Future Flood Hazard (FutFldHazard)
- Trinity Regional Flood Planning Basin

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 11.3
Future Condition Flood Exposure - Polygon Features



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Social Vulnerability Index (Potential Future Conditions)
(Average SVI by County)

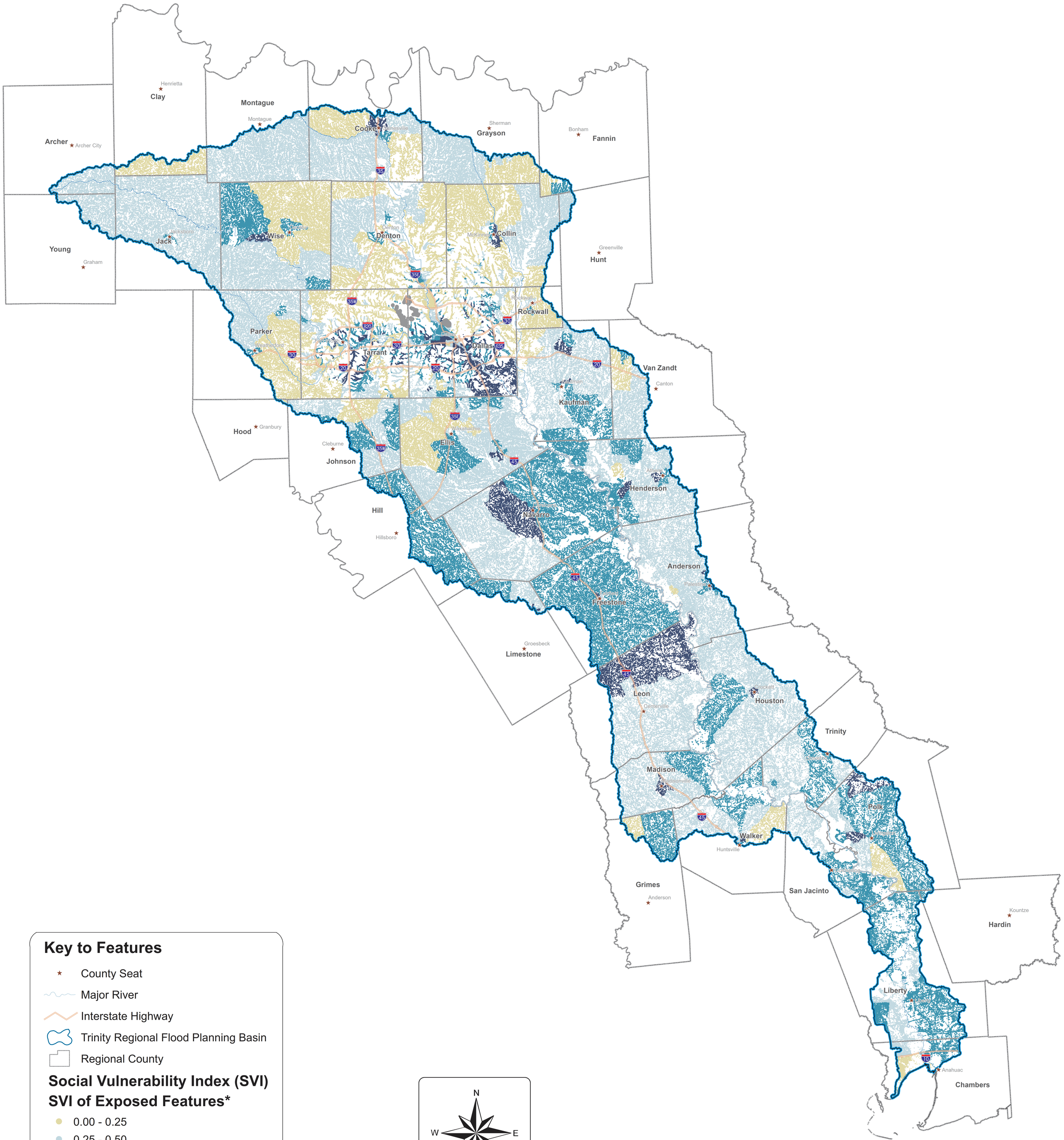
- 0.50 - 0.75
- 0.25 - 0.50
- 0.00 - 0.25

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 12
Future Flood Exposure Vulnerability
SVI Average per County



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Social Vulnerability Index (SVI)
SVI of Exposed Features*

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- NoData

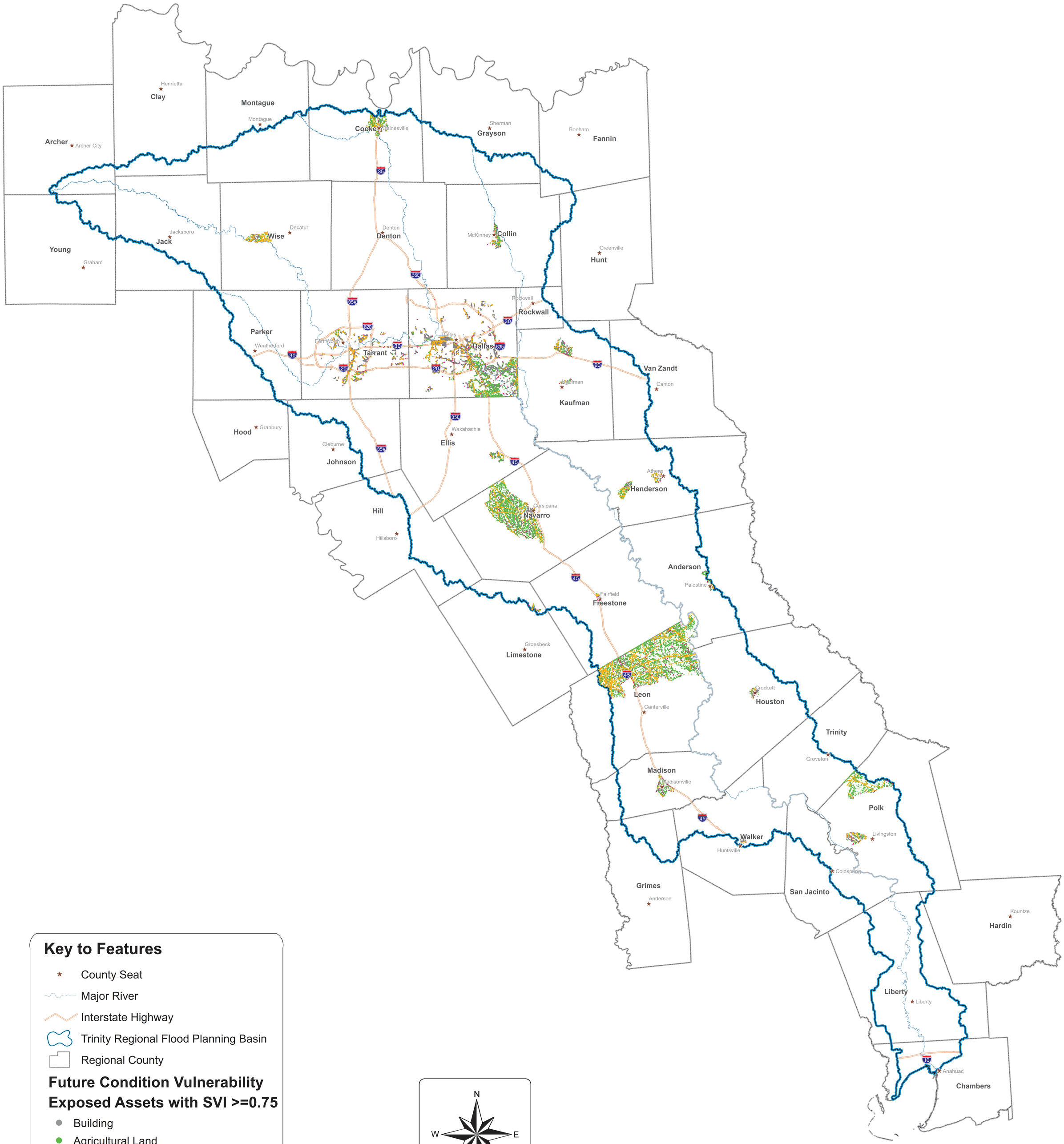
*SVI Data is by Census Tract

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 12.1
Future Flood Exposure Vulnerability
SVI of Exposed Features



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Future Condition Vulnerability
Exposed Assets with SVI >=0.75

- Building
- Agricultural Land
- Power Generation
- Roadway Segment/Stream Crossing
- Other Critical Facilities

N
W E
S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 12.2
Future Flood Exposure Vulnerability
High SVI Exposed Features

Archer
Archer City
Young
Graham
Clay
Henrietta
Montague
Montague
Jack
Jacksboro
Wise
Decatur
Cooke
Gainesville
Denton
Denton
Grayson
Sherman
Collin
McKinney
Bonham
Fannin
Hunt
Greenville
Parker
Weatherford
Tarrant
Fort Worth
Dallas
Dallas
Rockwall
Rockwall
Van Zandt
Canton
Kaufman
Kaufman
Hood
Granbury
Johnson
Cleburne
Ellis
Waxahachie
Hill
Hillsboro
Navarro
Corsicana
Henderson
Athens
Anderson
Palestine
Freestone
Fairfield
Limestone
Groesbeck
Leon
Centerville
Houston
Crockett
Madison
Madisonville
Trinity
Groveton
Walker
Huntsville
Polk
Livingston
Coldspring
Grimes
Anderson
San Jacinto
Liberty
Liberty
Chambers
Anahuac
Hardin
Kountze

Key to Features

- ★ County Seat
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Regional County

Adoption of Higher Standards

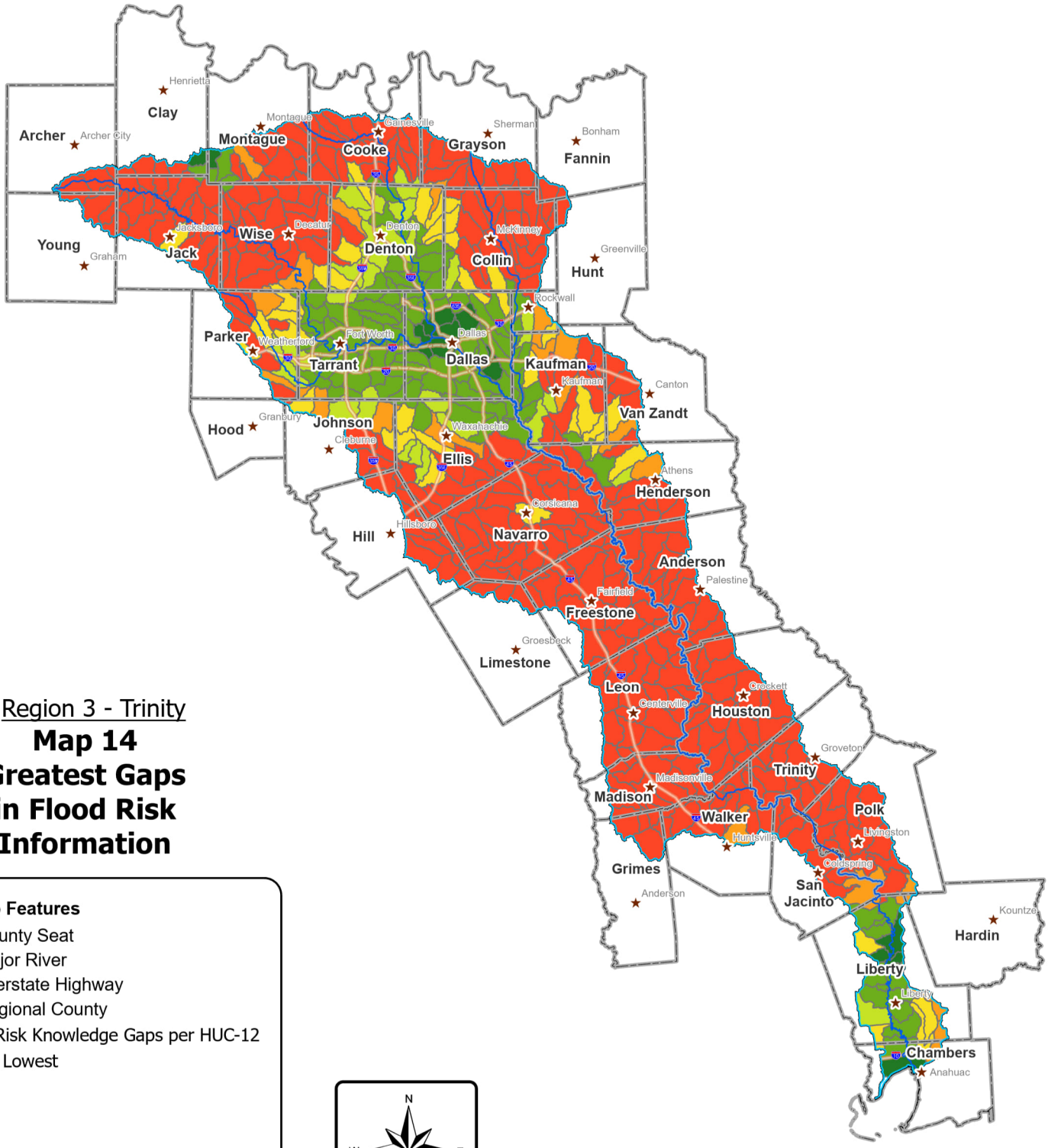
- Municipality Uses Minimum
- Municipality Adopted Higher
- County Uses Minimum
- County Adopted Higher

N
W
E
S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 13
Floodplain Management Practices



Region 3 - Trinity

Map 14 Greatest Gaps in Flood Risk Information

Key to Features

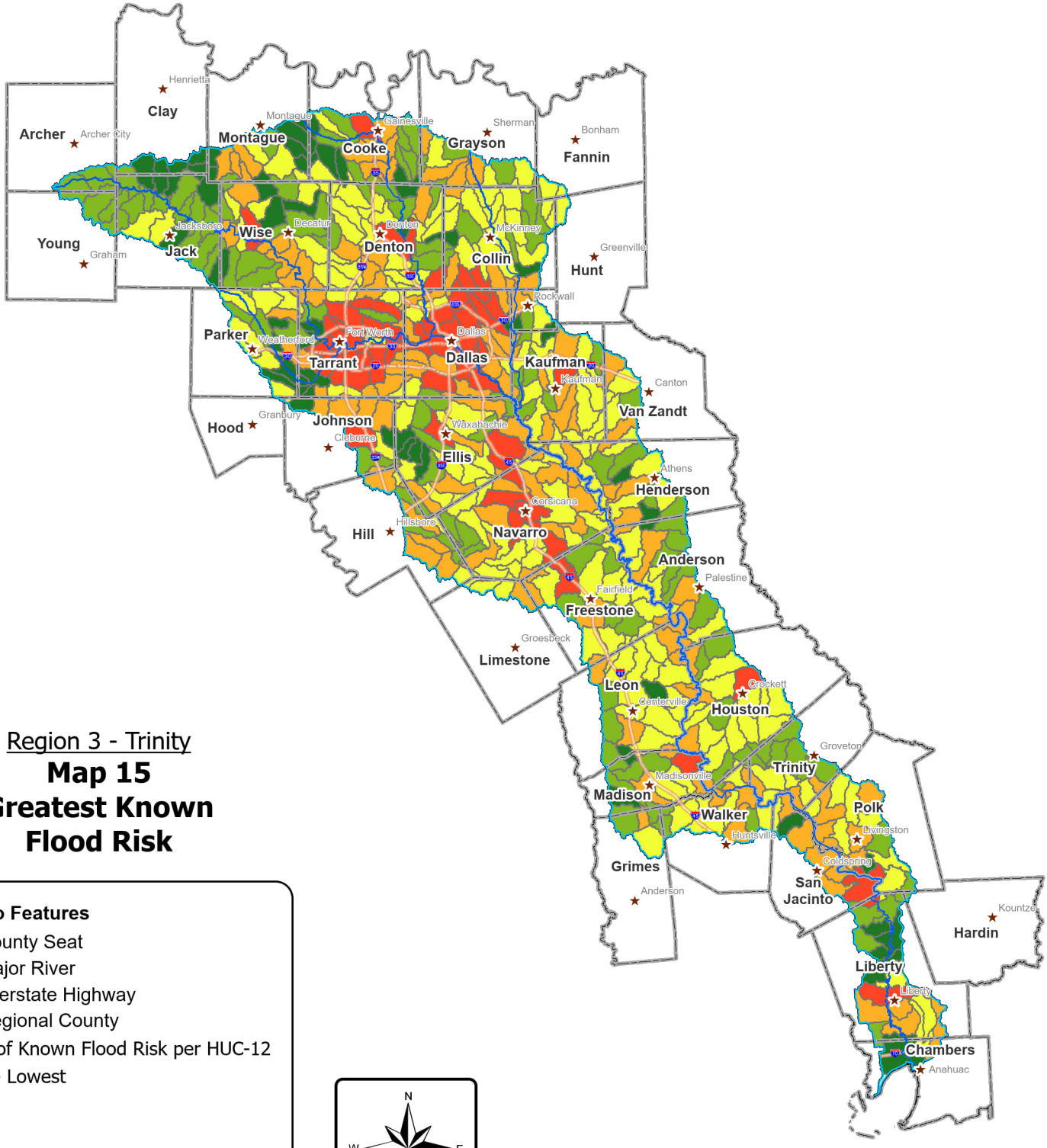
- County Seat
- Major River
- Interstate Highway
- Regional County

Flood Risk Knowledge Gaps per HUC-12

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

N W E S

0 25 50 100 Miles



Region 3 - Trinity

Map 15
Greatest Known Flood Risk

Key to Features

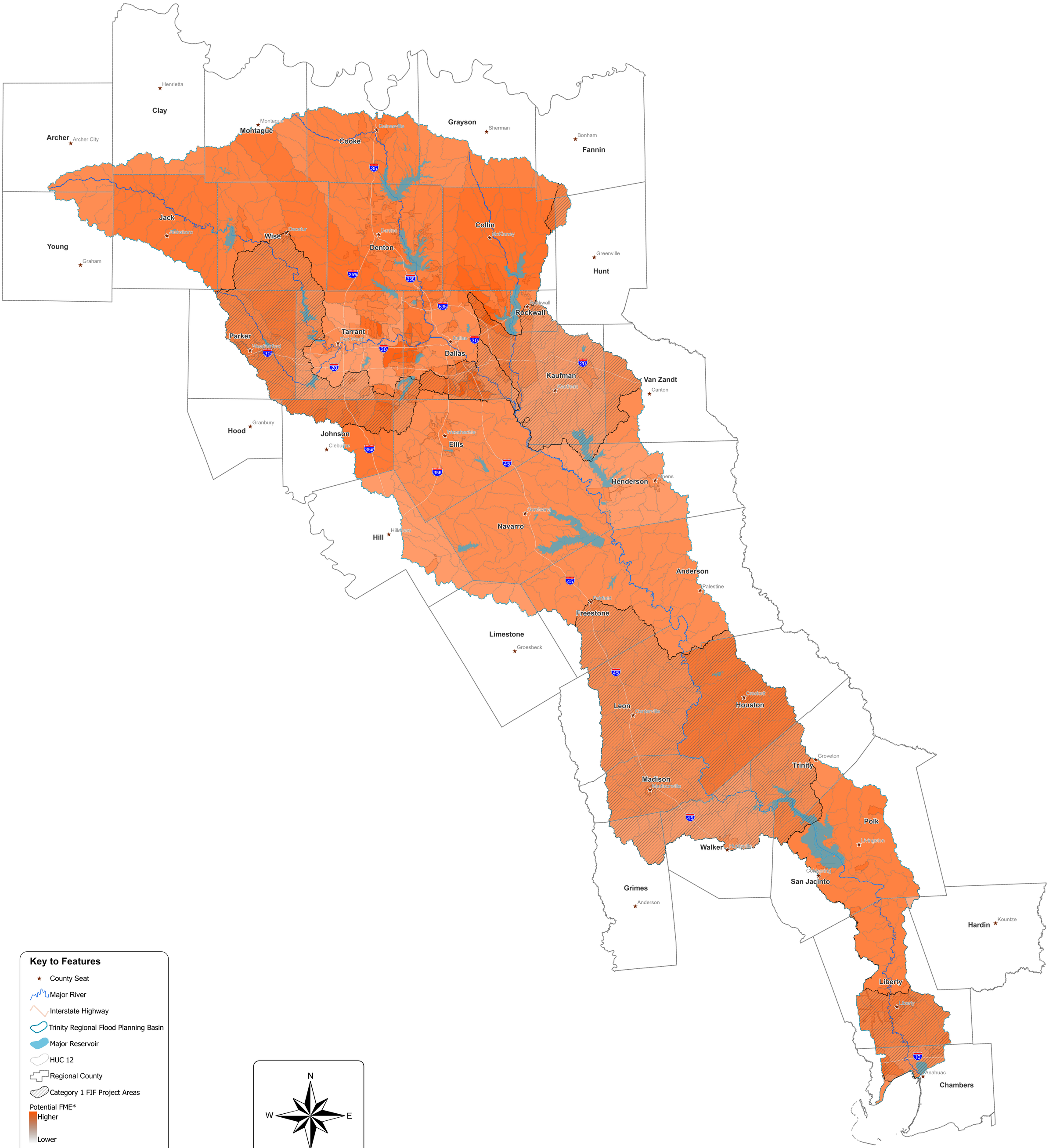
- County Seat
- Major River
- Interstate Highway
- Regional County

Level of Known Flood Risk per HUC-12

- 1 - Lowest
- 2
- 3
- 4
- 5 - Highest

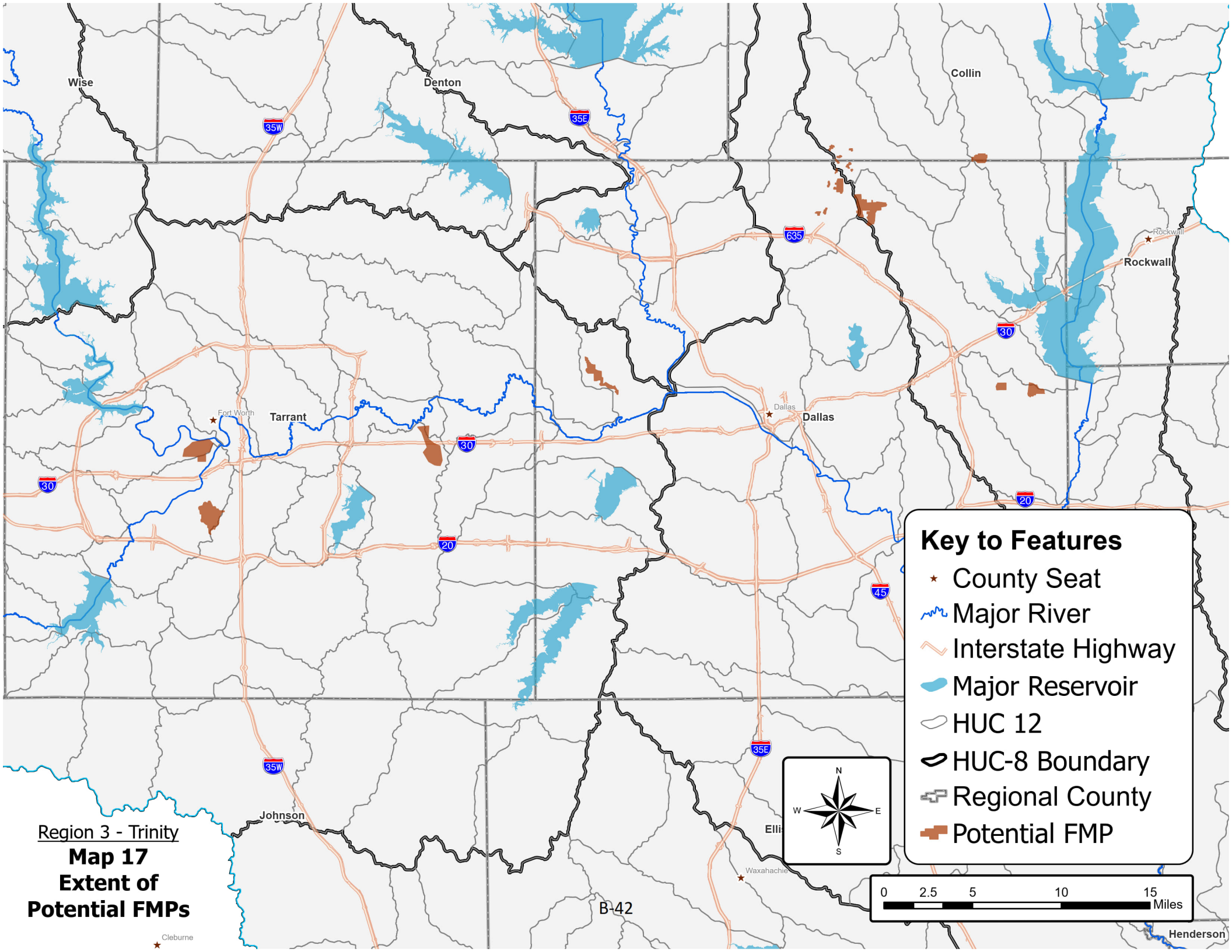
N
W
E
S

0 25 50 100 Miles



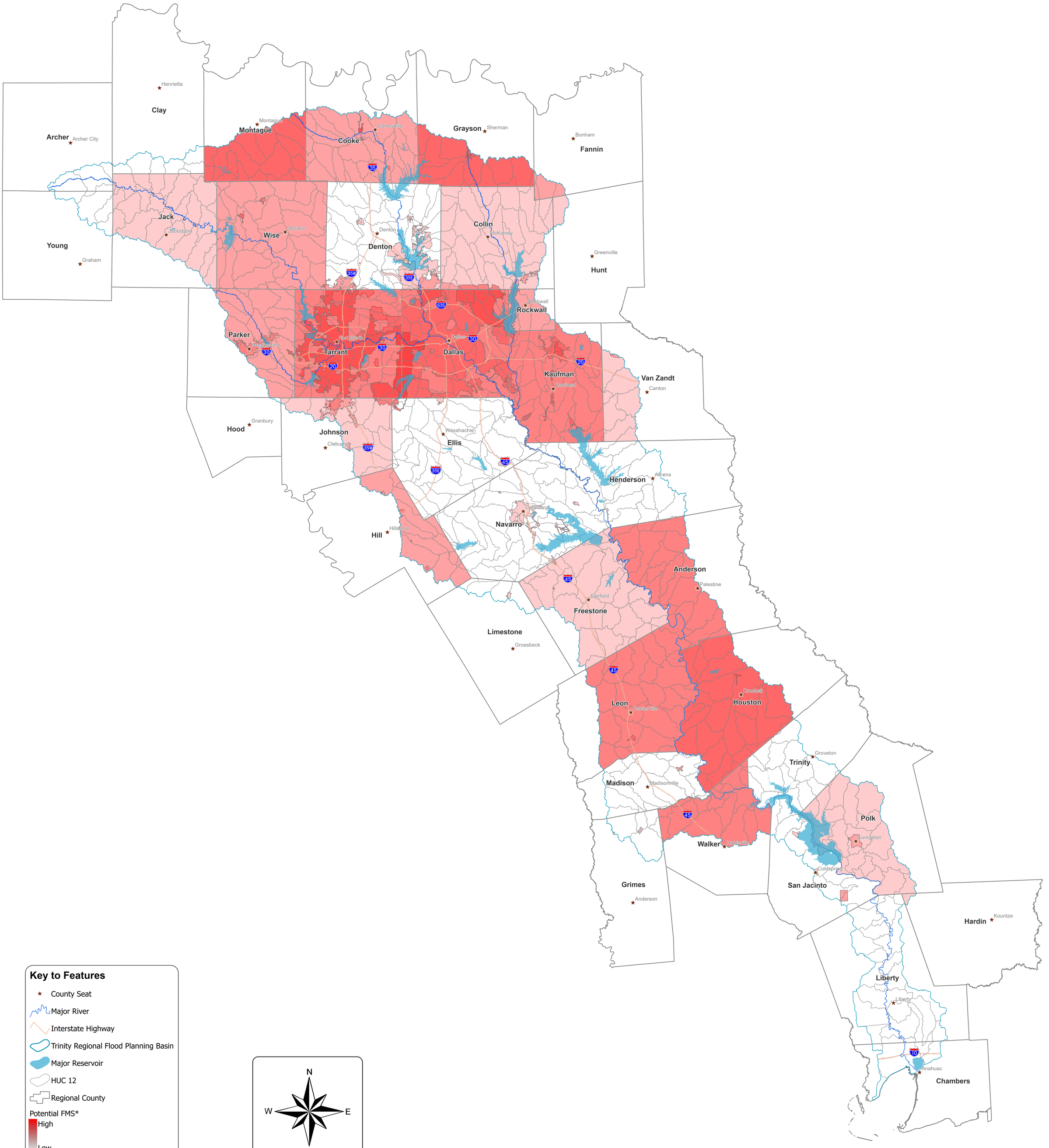
Region 3 - Trinity

Map 16
Extents of Identified Potential FMEs



Region 3 - Trinity

Map 17
Extent of Potential FMPs



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Major Reservoir
- HUC 12
- Regional County

Potential FMS*
High
Low

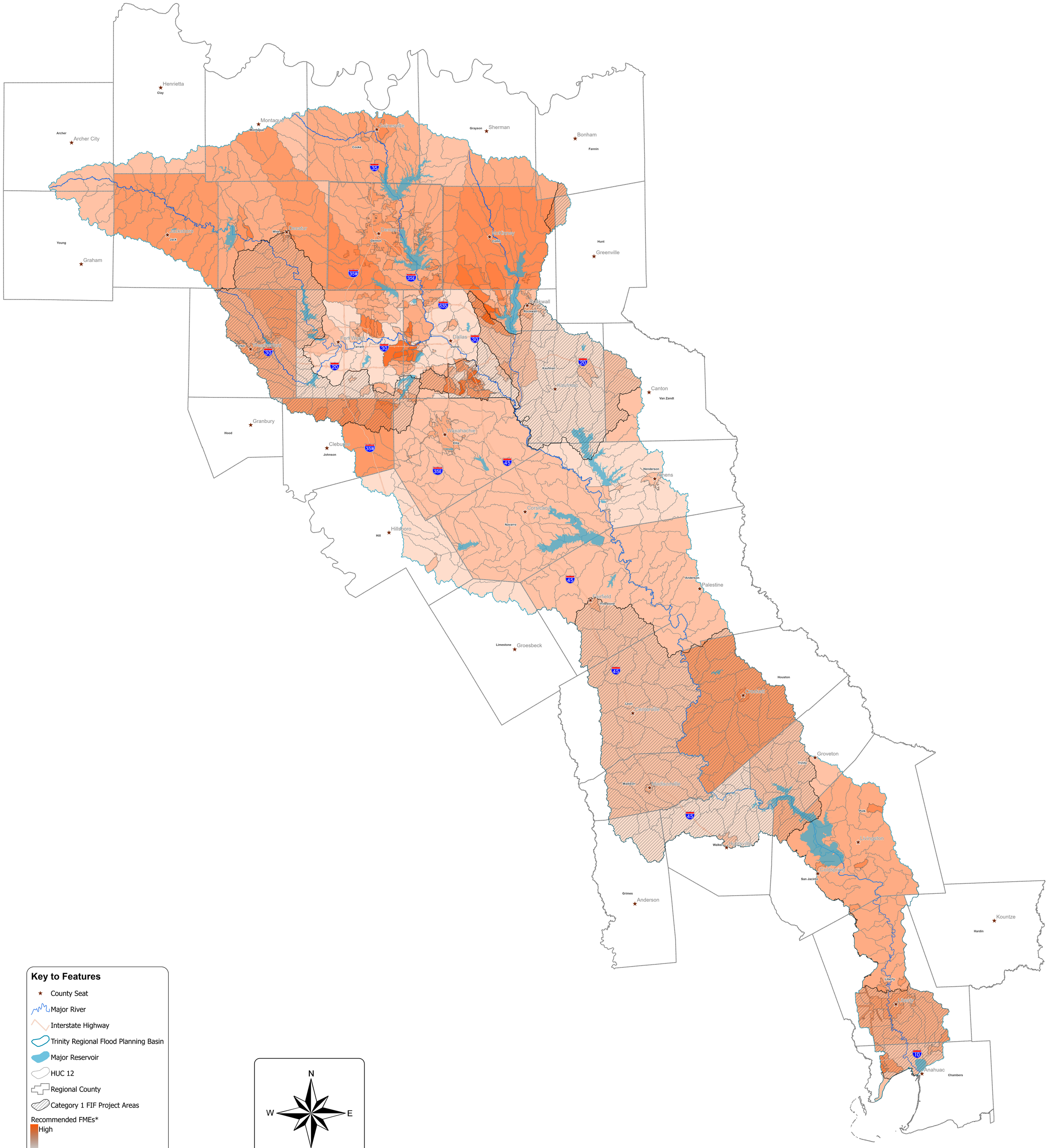
* Color symbology reflects the number of FMSs that overlap for the same area. the darker the color, the greater the number of FMSs.

N
W
E
S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 18
Extents of Identified Potential FMSs



Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Major Reservoir
- HUC 12
- Regional County
- Category 1 FIF Project Areas

Recommended FMEs*

High

Low

* Color symbology reflects the number of FMEs that overlap for the same area. the darker the color, the greater the number of FMEs.

N

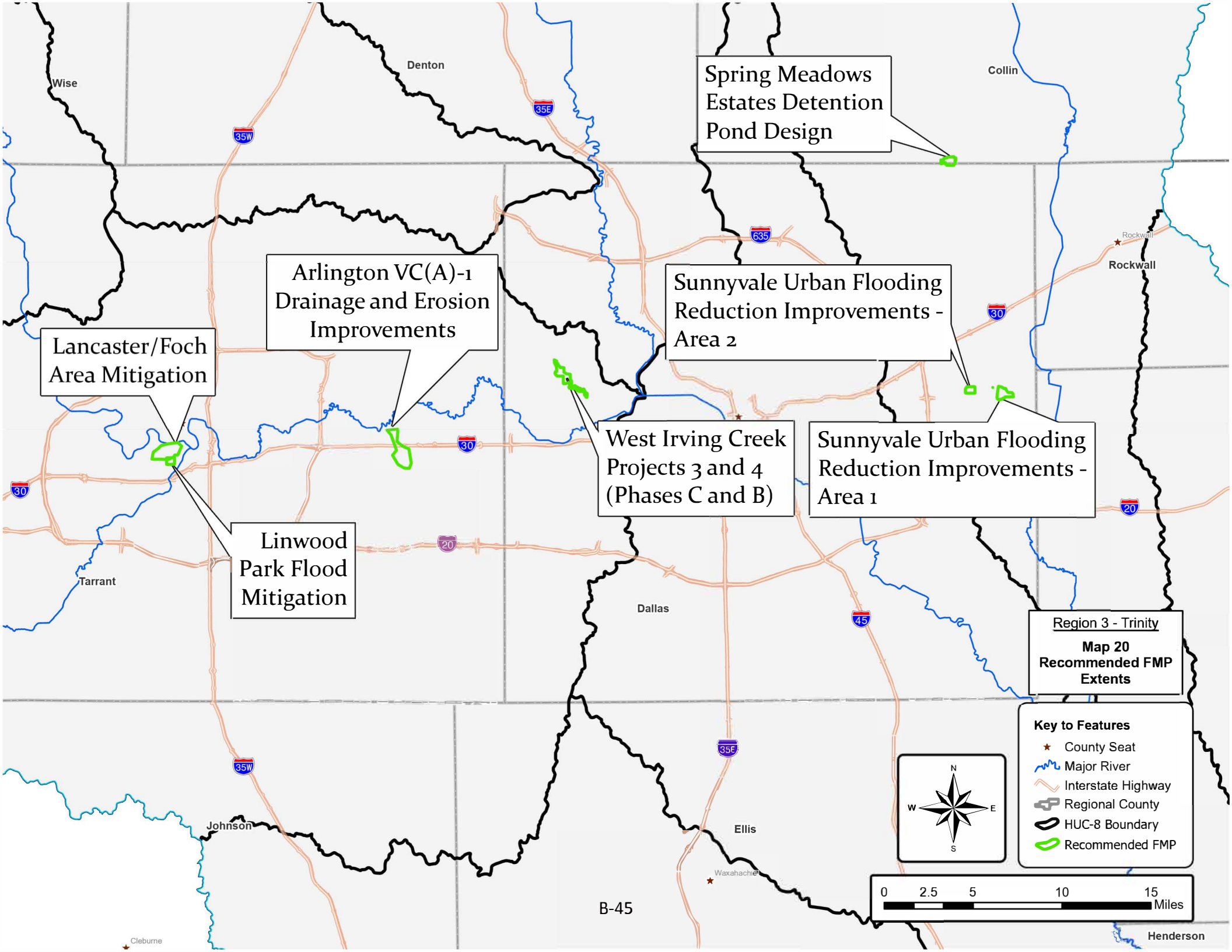
W E

S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 19
Recommended FMEs
Impact Extents


Spring Meadows Estates Detention Pond Design
Arlington VC(A)-1 Drainage and Erosion Improvements
Lancaster/Foch Area Mitigation
Sunnyvale Urban Flooding Reduction Improvements - Area 2
West Irving Creek Projects 3 and 4 (Phases C and B)
Sunnyvale Urban Flooding Reduction Improvements - Area 1
Linwood Park Flood Mitigation
Wise
Denton
Collin
Rockwall
Tarrant
Dallas
Johnson
Ellis
Waxahachie
Cleburne
Henderson
Region 3 - Trinity
Map 20 Recommended FMP Extents
Key to Features
County Seat
Major River
Interstate Highway
Regional County
HUC-8 Boundary
Recommended FMP
N
W
E
S
0 2.5 5 10 15 Miles

Clay
Archer
Young
Jack
Wise
Montague
Cooke
Grayson
Fannin
Denton
Collin
Hunt
Rockwall
Parker
Tarrant
Dallas
Kaufman
Van Zandt
Hood
Johnson
Ellis
Henderson
Navarro
Hill
Anderson
Freestone
Limestone
Houston
Leon
Trinity
Madison
Walker
Polk
San Jacinto
Grimes
Hardin
Liberty
Chambers

Key to Features

- County Seat
- Major River
- Interstate Highway
- Trinity Regional Flood Planning Basin
- Major Reservoir
- HUC 12
- Regional County

Recommended FMS*

High

Low

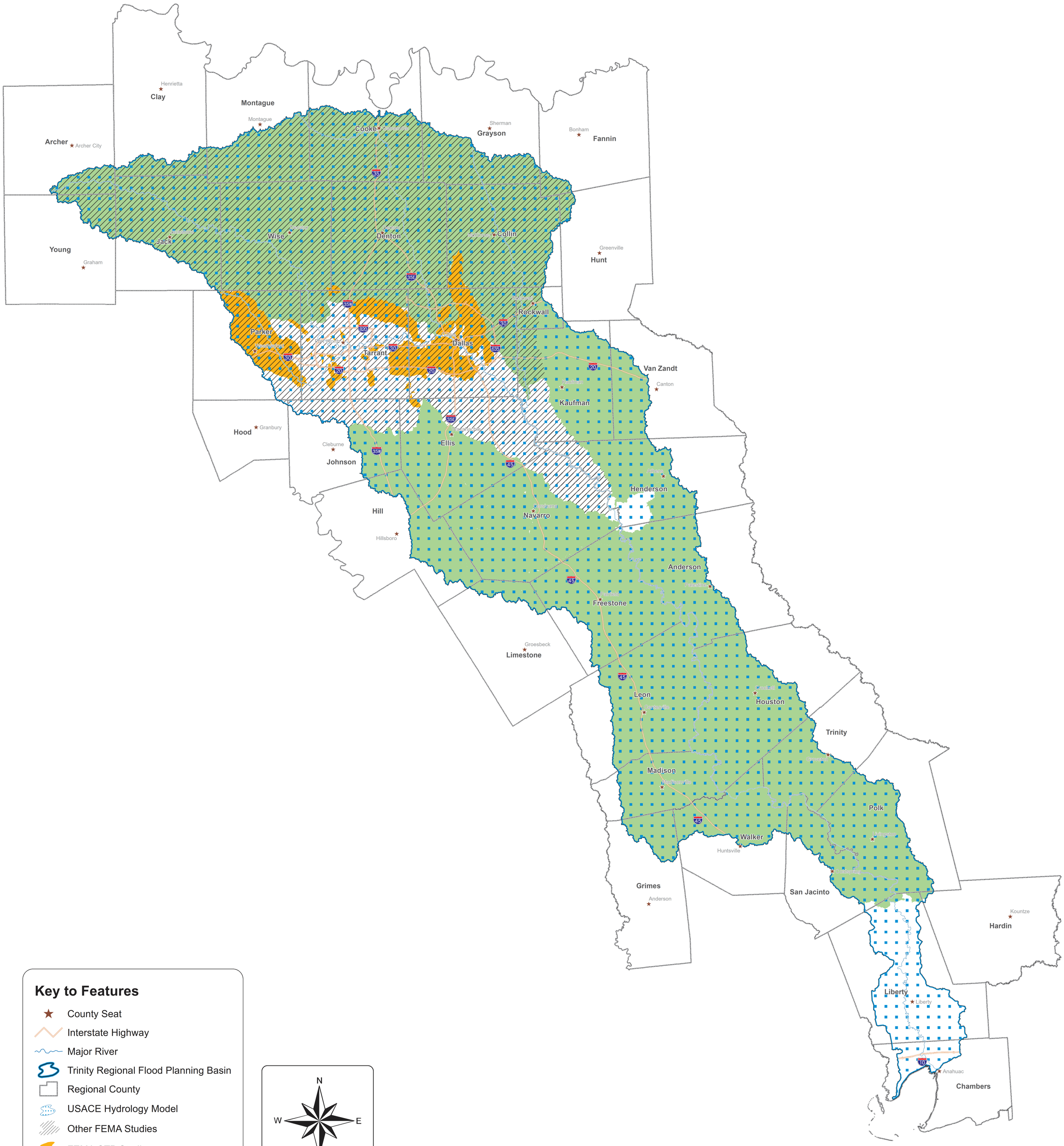
* Color symbology reflects the number of FMSs that overlap for the same area. the darker the color, the greater the number of FMSs.

N W E S

0 20 40 80 120 Miles

Region 3 - Trinity

Map 21
Recommended FMSs Impact Extents



Region 3 - Trinity

Map 22
Model Coverage