

GMA 8 Boundary Change Possibilities

Natalie Ballew

Groundwater Management Area 8 meeting

February 26, 2020

What's the deal?

Aquifer slivers – teeny tiny portions of aquifers in a GMA

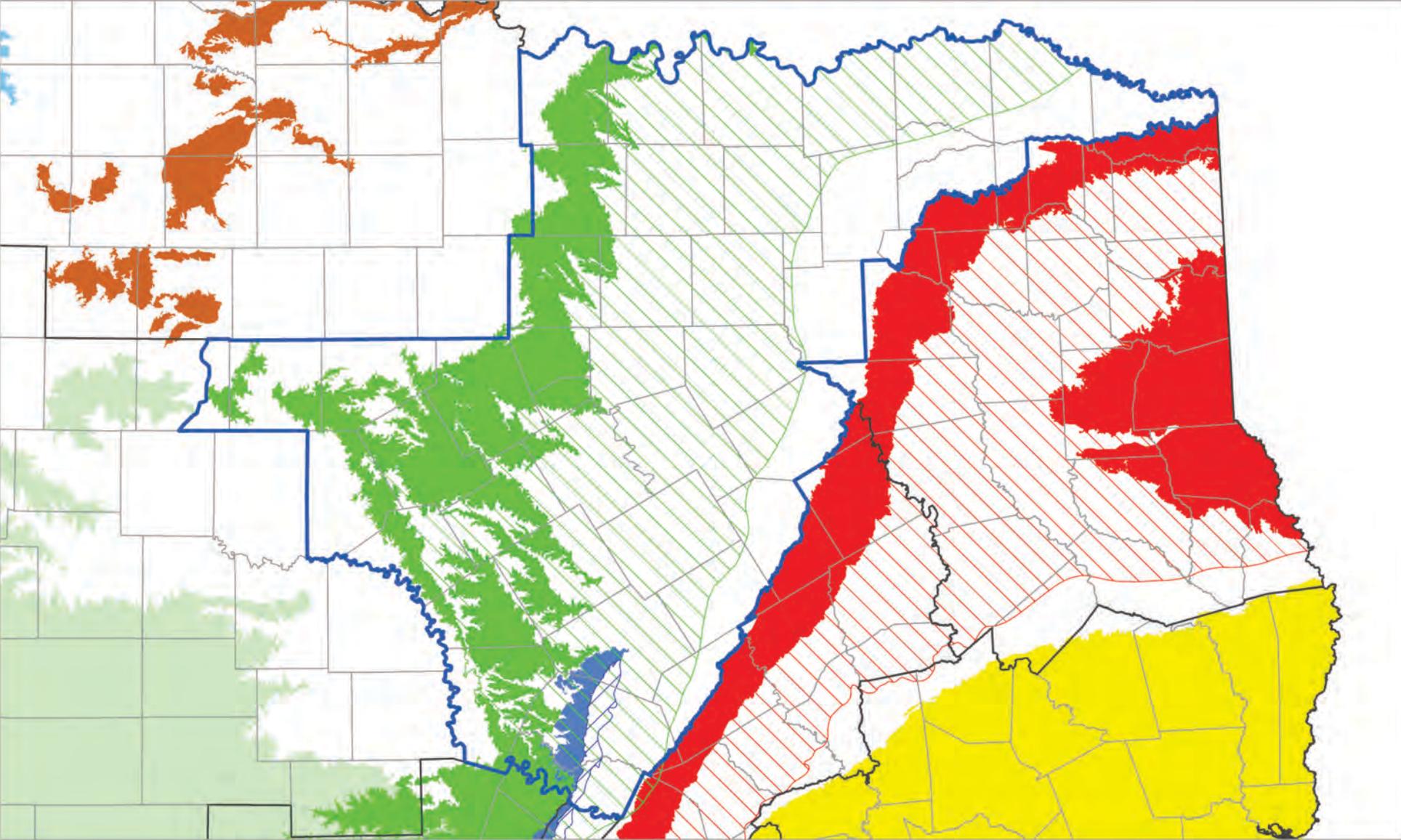
Misaligned boundaries

New aquifer – Cross Timbers

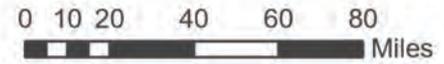
GMA designation by the TWDB

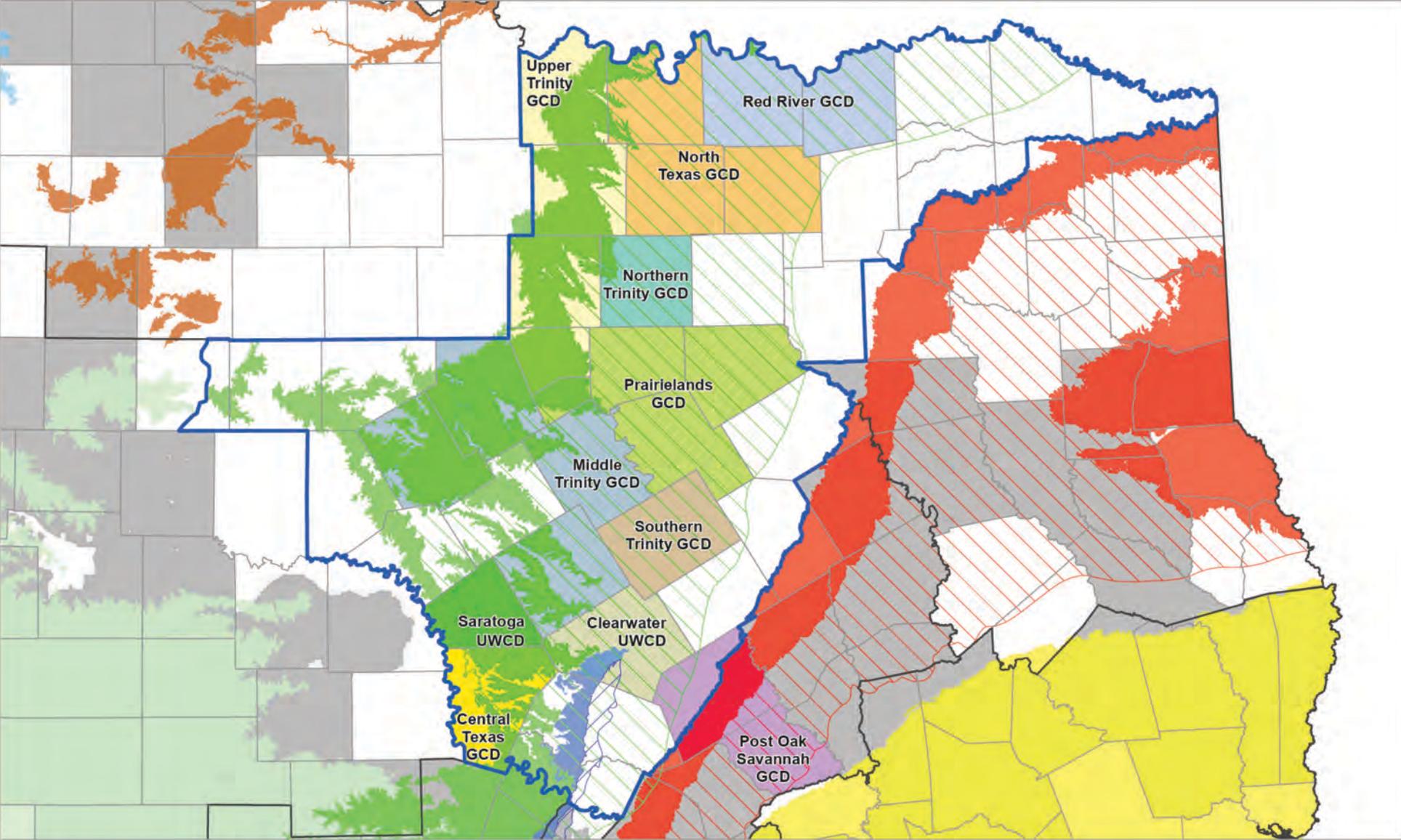
“...To the extent feasible, the groundwater management area shall coincide with the boundaries of a groundwater reservoir or a subdivision of a groundwater reservoir...”

Texas Water Code Section 35.004(a)



 GMA 8





 GMA 8

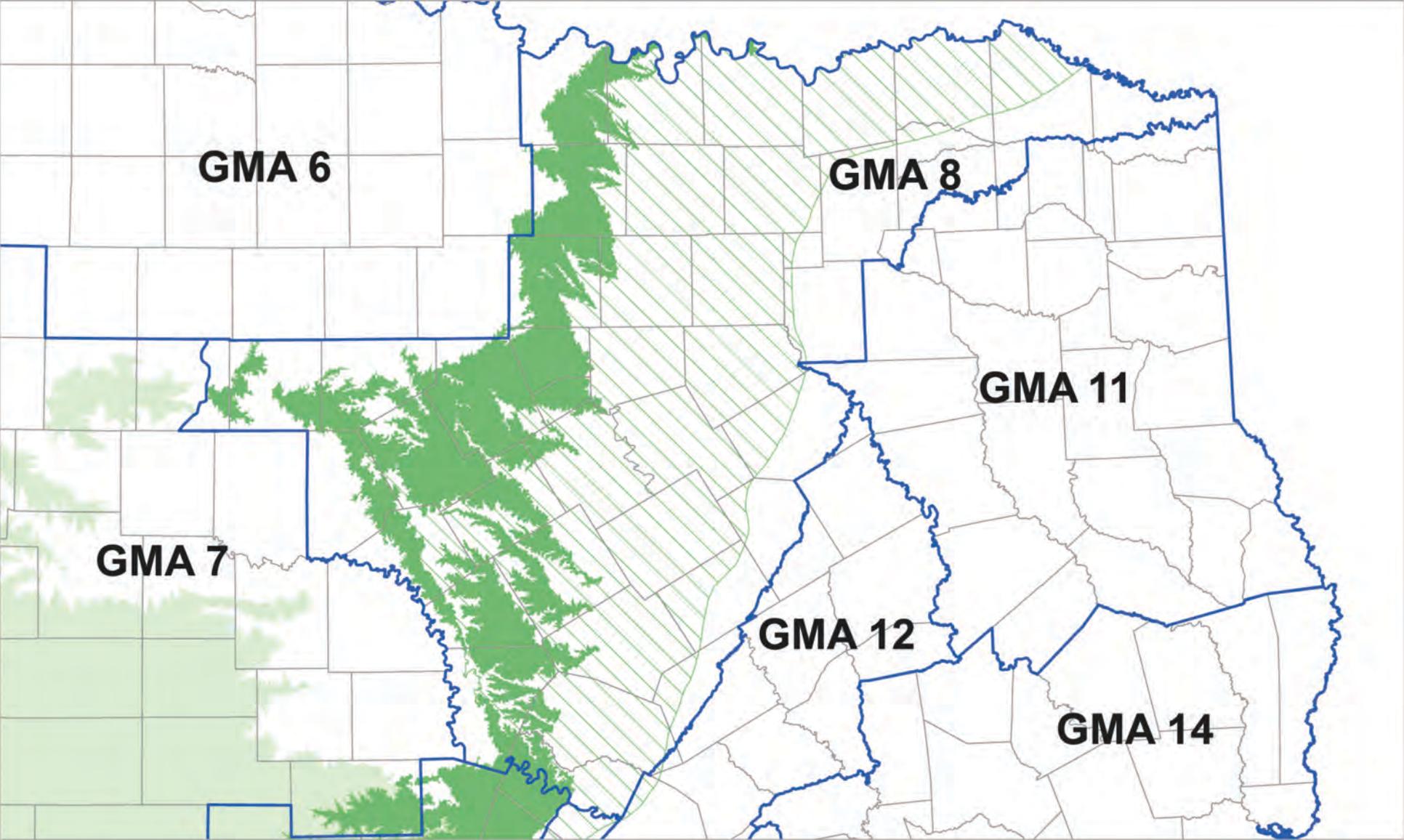
0 10 20 40 60 80 Miles



Boundary change for aquifer slivers – selection criteria

Considered if sliver is not located in a GCD **or** if sliver is located in a GCD that is part of more than one GMA.

If either of the above are true **and** if all other slivers of the same aquifer in the GMA also met one of the criteria → boundary redrawn

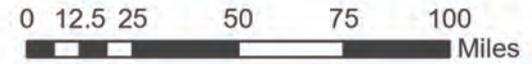


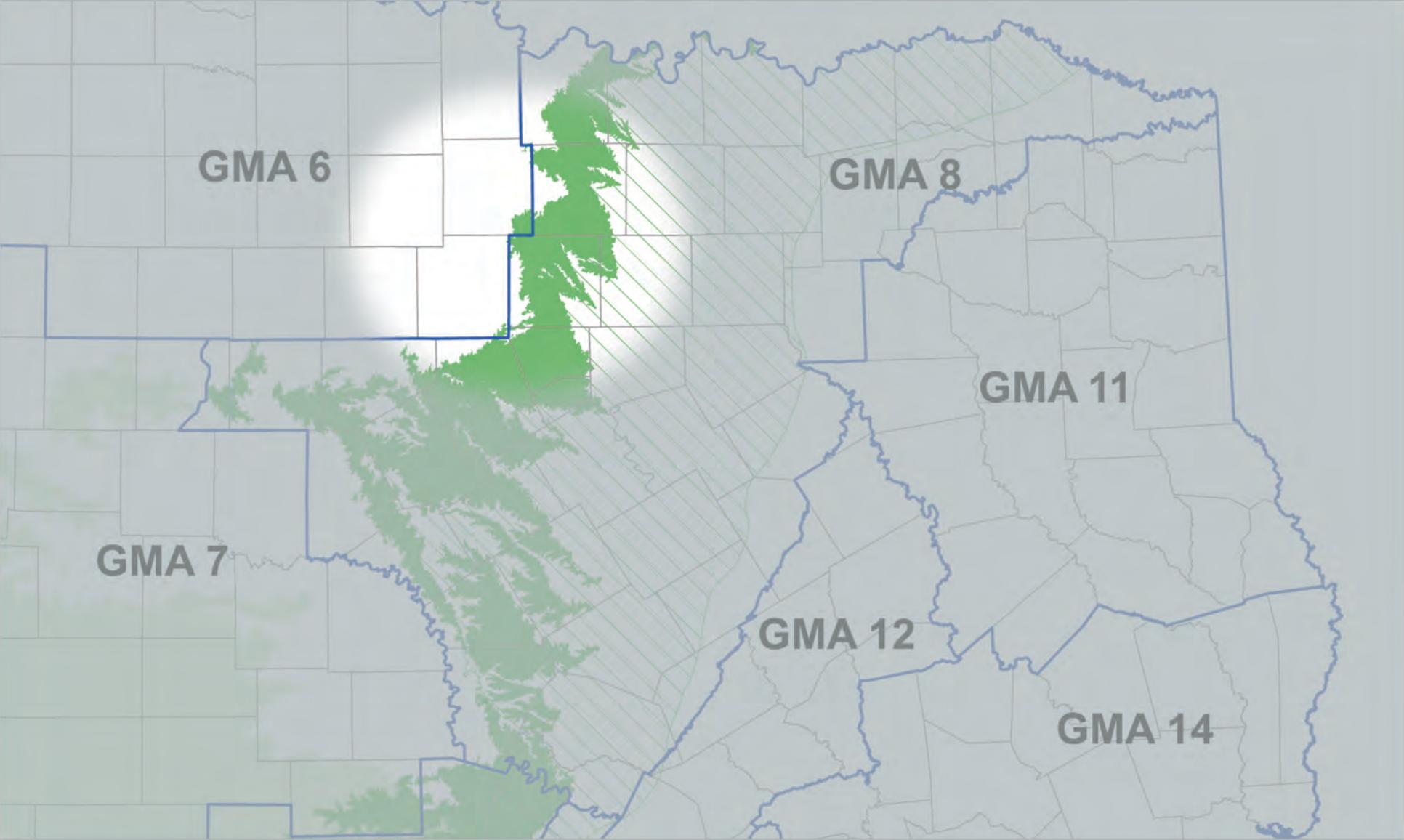
 Current GMA boundaries

 Edwards - Trinity Plateau (outcrop)

 Trinity (outcrop)

 Trinity (subcrop)



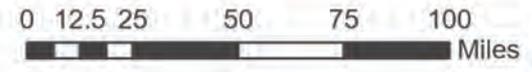


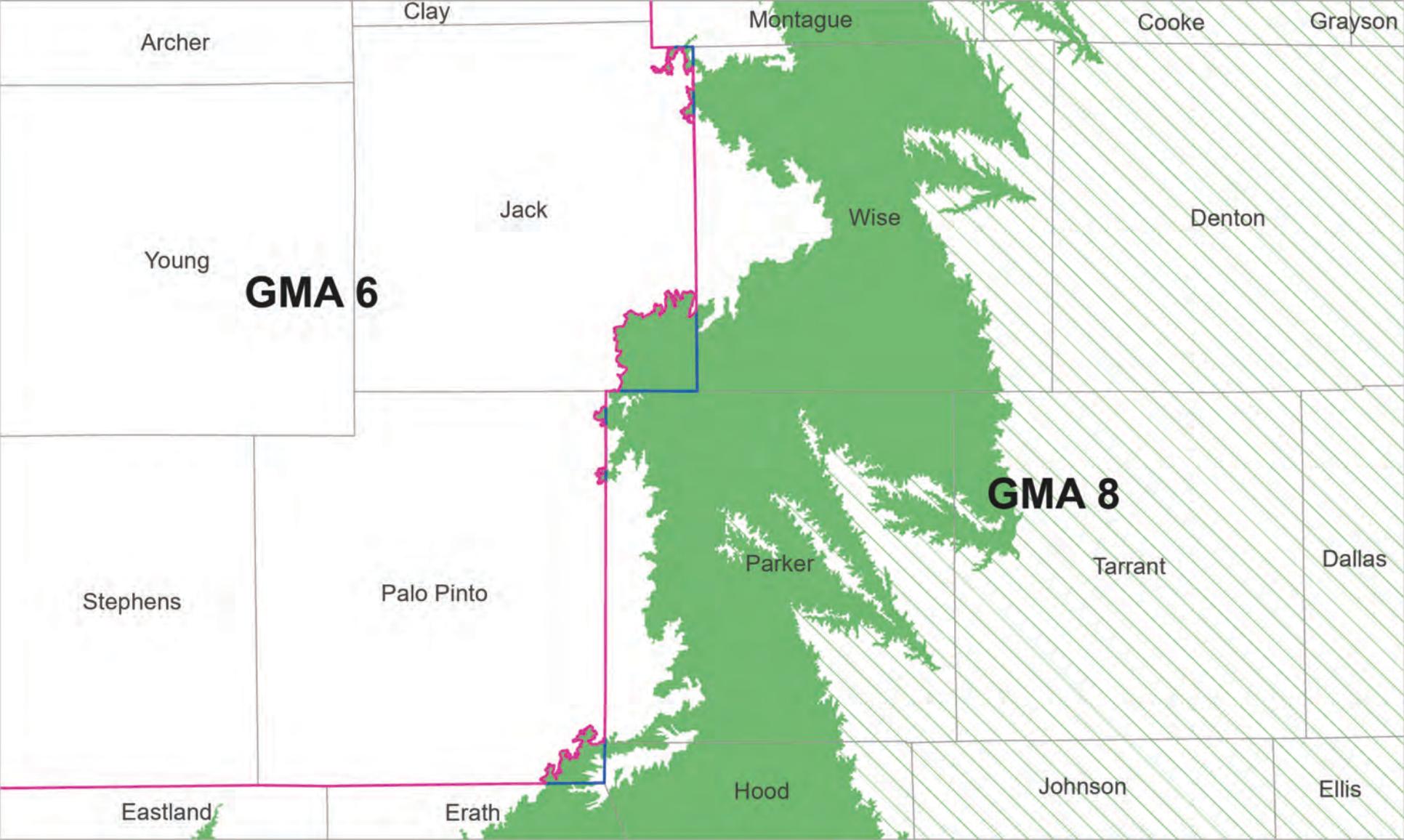
 Current GMA boundaries

 Edwards - Trinity Plateau (outcrop)

 Trinity (outcrop)

 Trinity (subcrop)



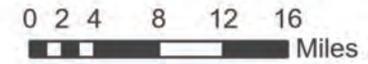


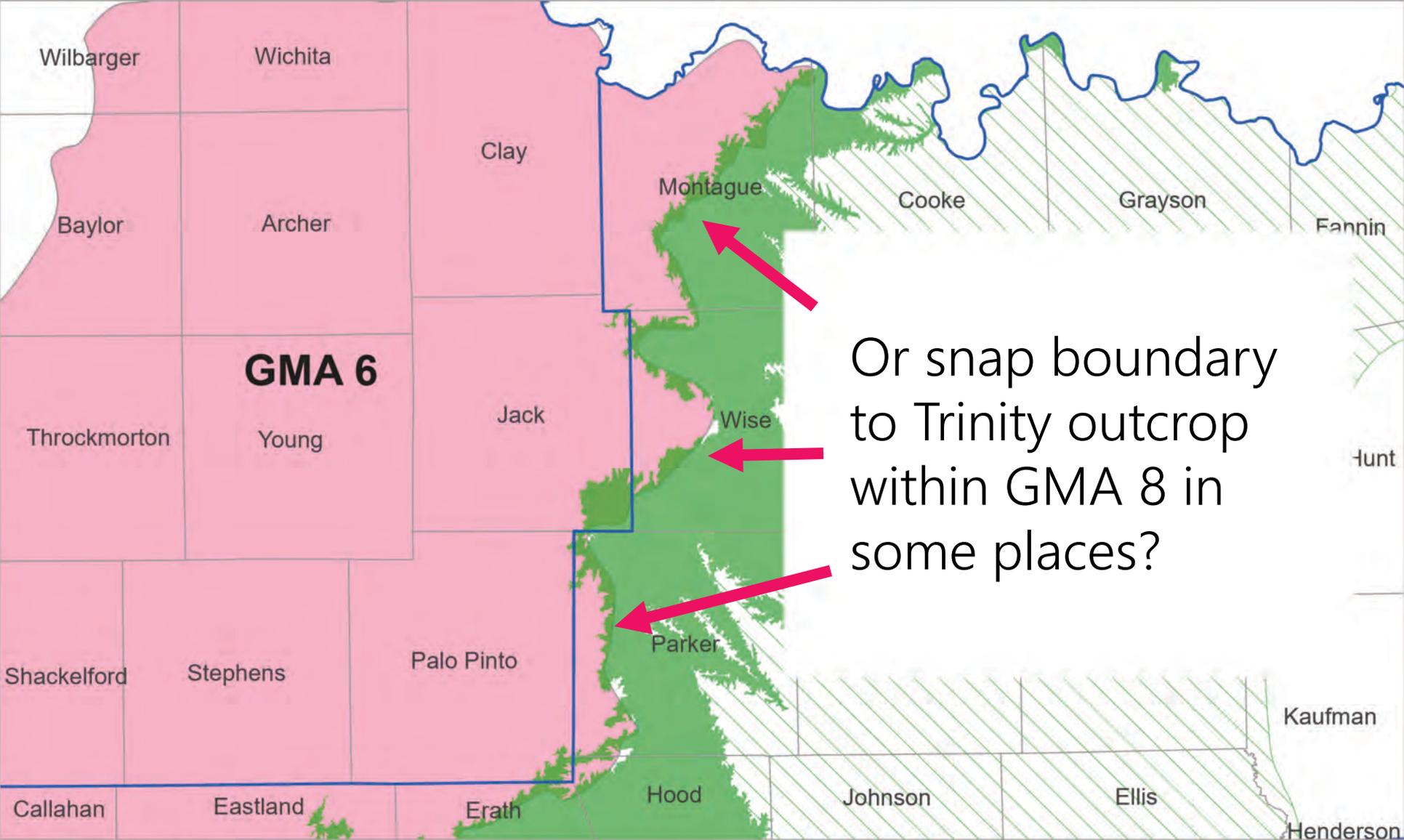
 Current GMA boundaries

 Proposed GMA boundaries

 Trinity (outcrop)

 Trinity (subcrop)

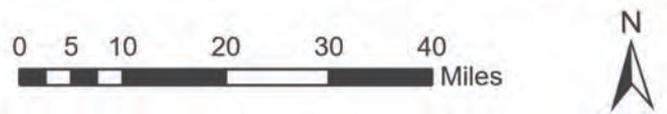


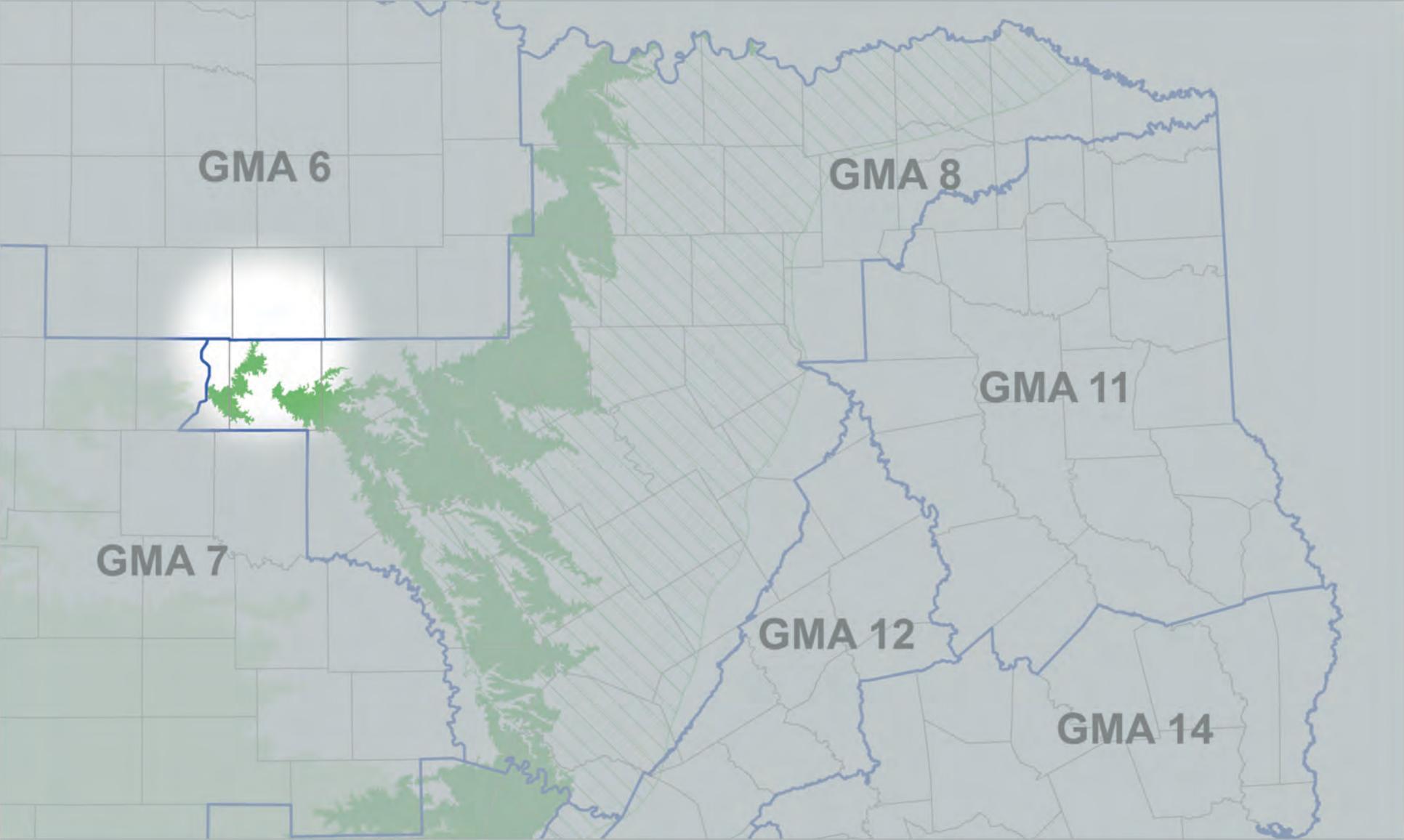


GMA 6

Or snap boundary to Trinity outcrop within GMA 8 in some places?

- Current GMA boundaries
- Trinity (outcrop)
- Trinity (subcrop)
- Cross Timbers



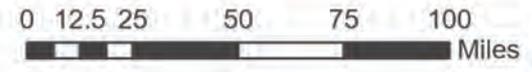


 Current GMA boundaries

 Edwards - Trinity Plateau (outcrop)

 Trinity (outcrop)

 Trinity (subcrop)



Jones

GMA 6 Shackelford

Taylor

GMA 8
Callahan

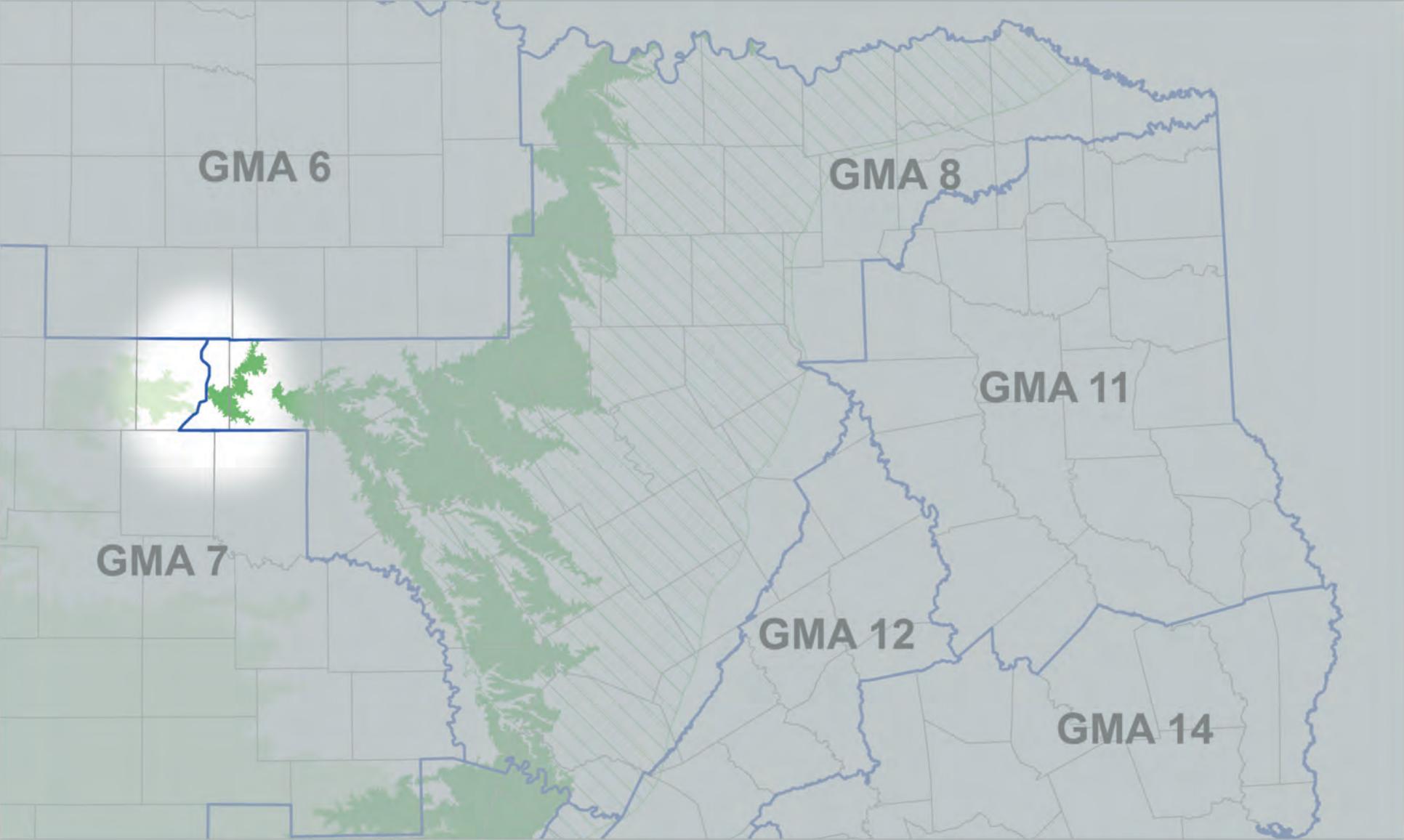
 Current GMA boundaries

 Proposed GMA boundaries

 Trinity (outcrop)

0 0.5 1 2 3 4 Miles



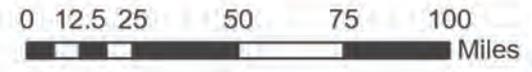


 Current GMA boundaries

 Edwards - Trinity Plateau (outcrop)

 Trinity (outcrop)

 Trinity (subcrop)



GMA 7

Taylor

GMA 8

 Current GMA boundaries

 Proposed GMA boundaries

 Trinity (outcrop)

0 0.25 0.5 1 1.5 2 Miles





GMA 7

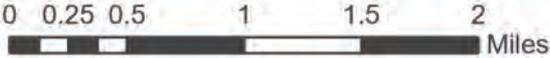
Taylor

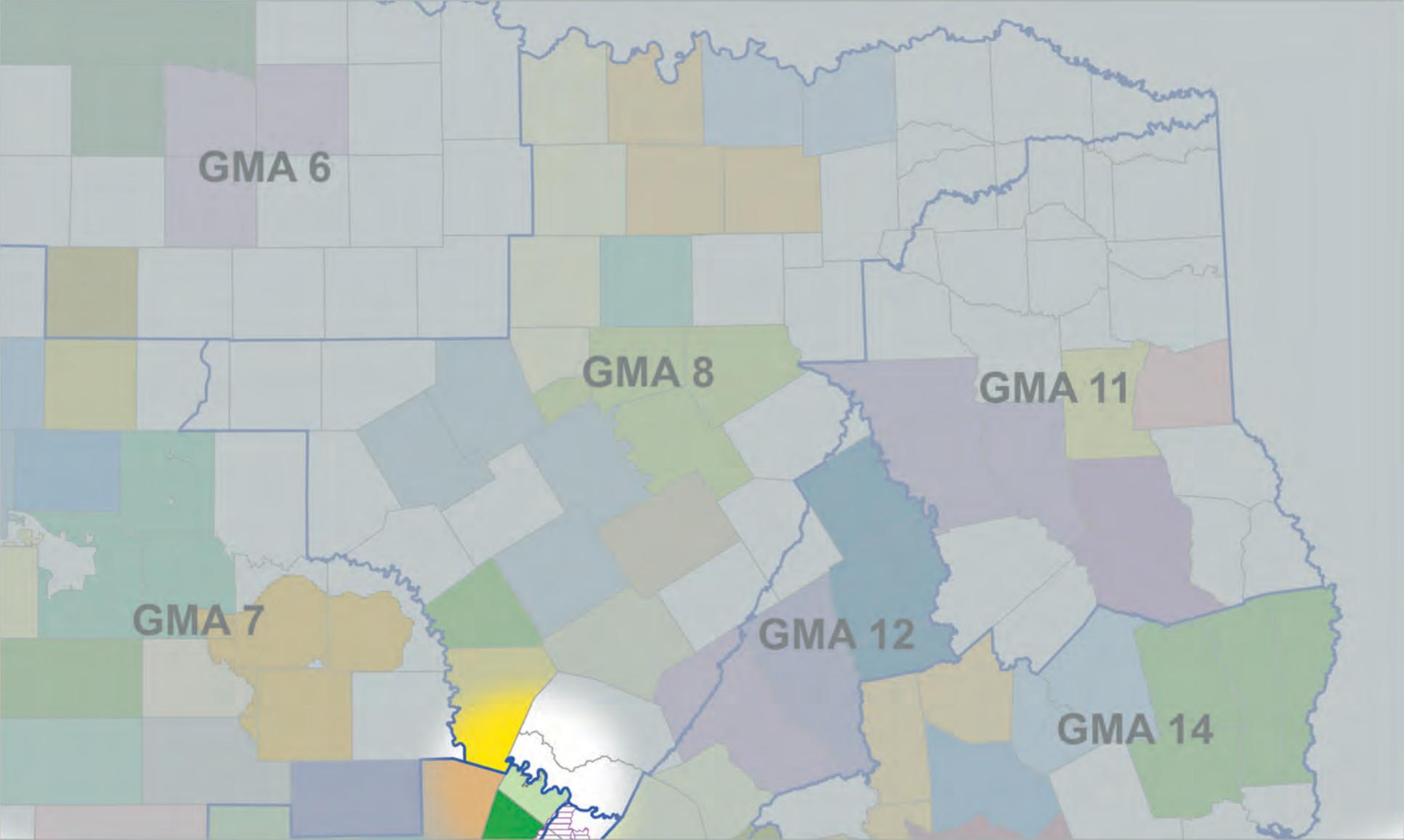
GMA 8

 Current GMA boundaries

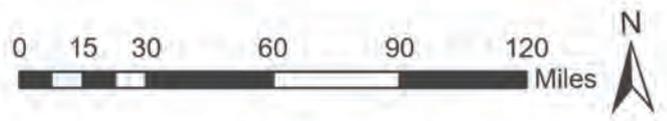
 Proposed GMA boundaries

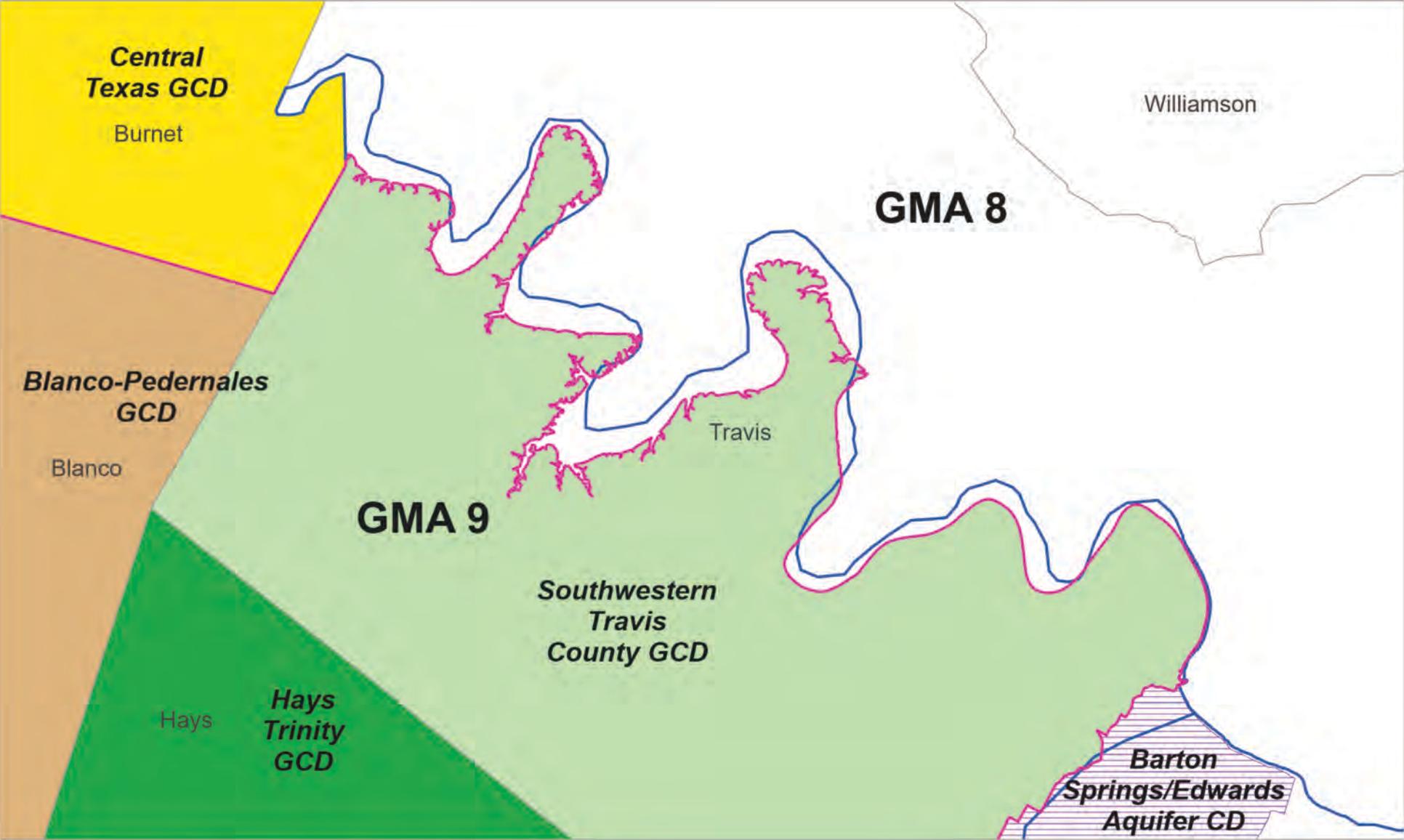
 Edwards - Trinity Plateau (outcrop)





 Current GMA boundaries





Central Texas GCD

Burnet

Williamson

GMA 8

Blanco-Pedernales GCD

Blanco

GMA 9

Travis

Southwestern Travis County GCD

Hays

Hays Trinity GCD

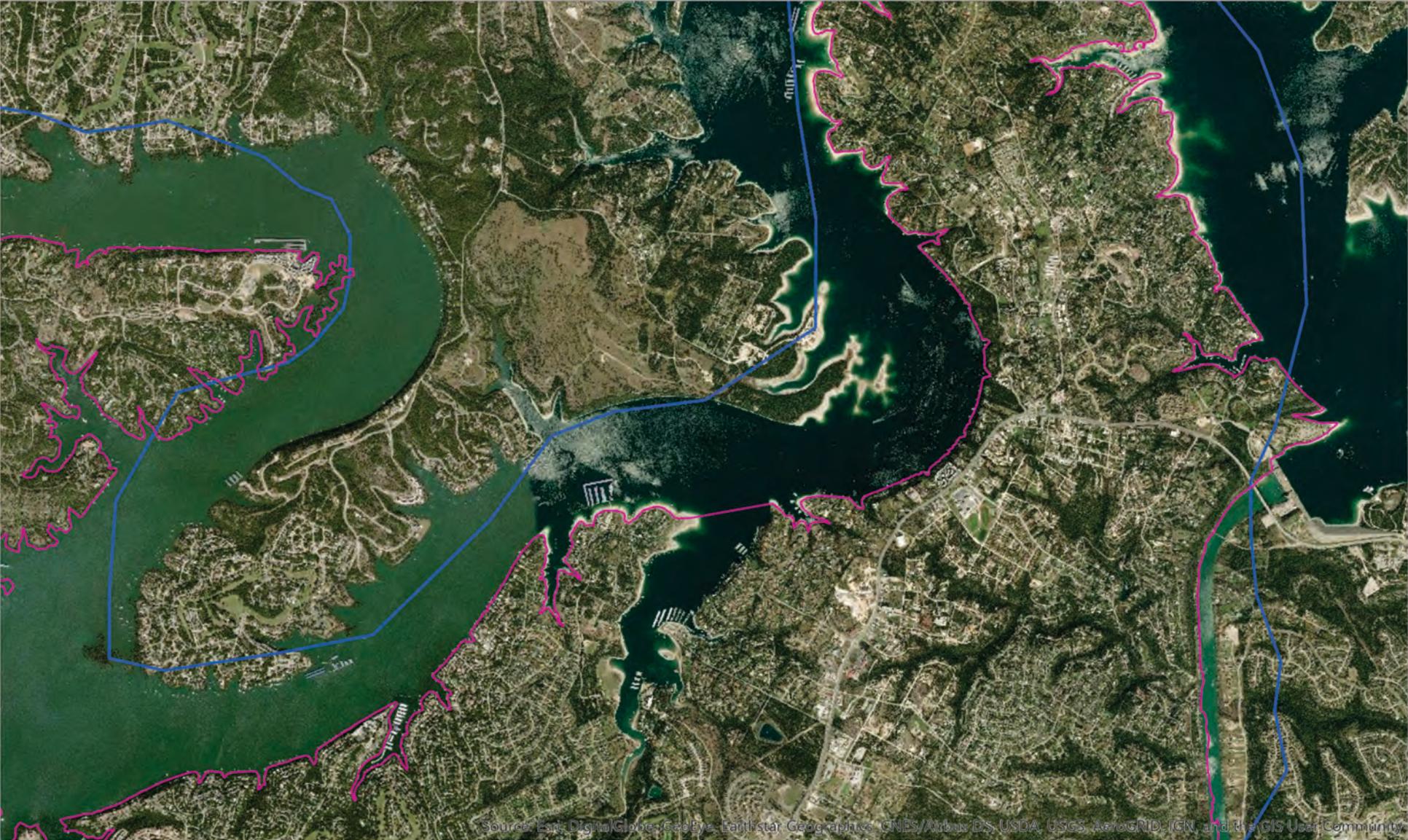
Barton Springs/Edwards Aquifer CD

Current GMA boundaries

Proposed GMA boundaries

0 1 2 4 6 8 Miles

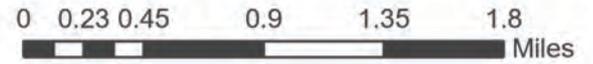




Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

 Current GMA boundaries

 Proposed GMA boundaries



To request boundary amendments

[Texas Administrative Code §356.22](#)

Send to TWDB Executive Administrator

1. Signed resolutions from each GMA
2. Supporting evidence that geographic and hydrogeologic conditions require the change
3. Copies of meeting notices and minutes

Boundary	County	Aquifer	MAG?
Aquifer slivers			
6-8	Jack	Trinity	No
6-8	Palo Pinto	Trinity	Non-relevant
6-8	Shackelford	Trinity	No
7-8	Taylor	Trinity	MAG in GMA 8
8-7	Taylor	Edwards-Trinity (Plateau)	MAG in GMA 7
Misaligned boundaries			
8/9/10	Travis		
New aquifer – Cross Timbers			
8-6			

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