

Climate and Conservation

2018 Texas Land Conservation Conference

Dr. Matthew Berg

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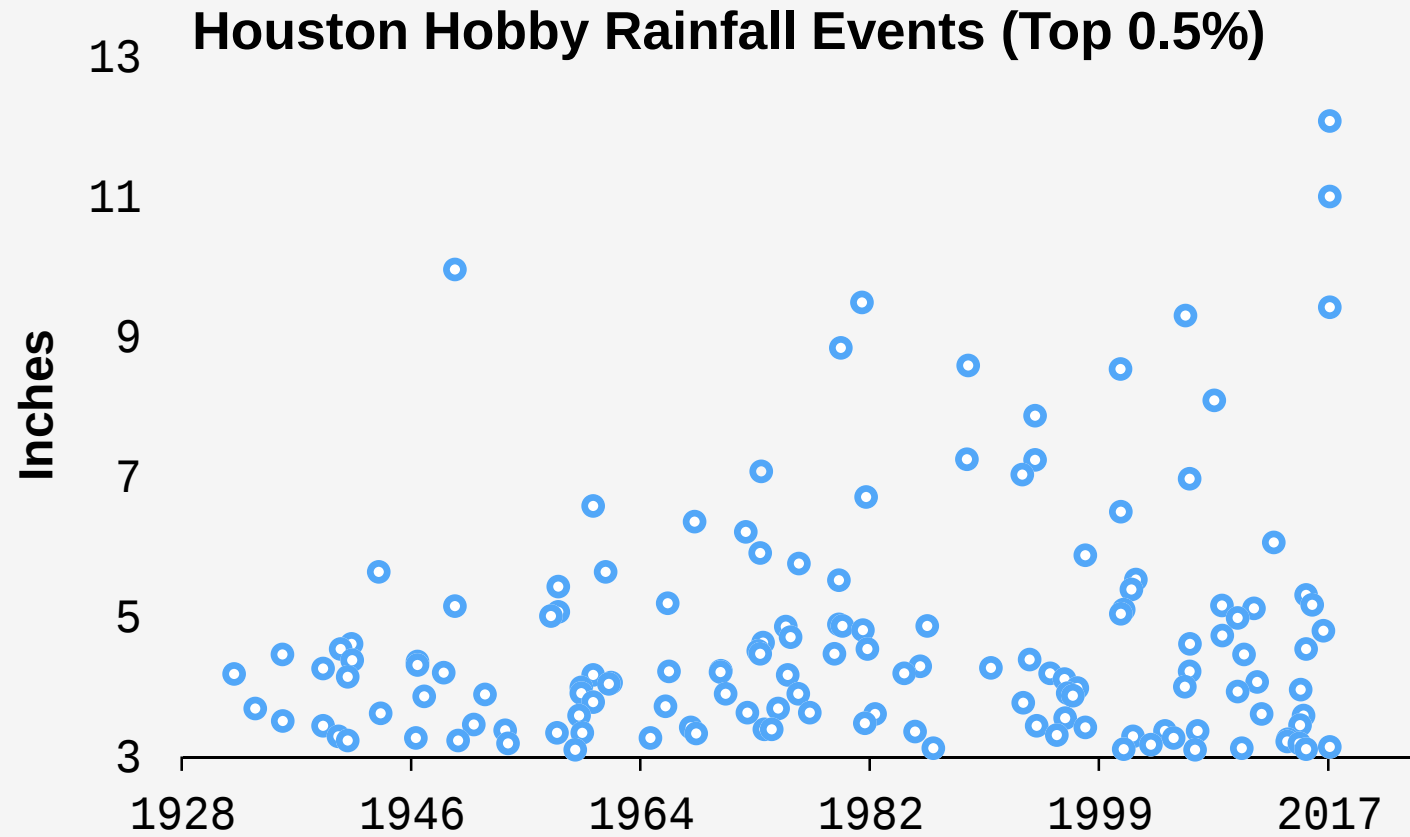


*Location:
Southeast Texas*

*Trend:
Increasing rainfall intensity*

*Issue:
Flooding*





Location: Southeast Texas

Trend: Increasing rainfall intensity

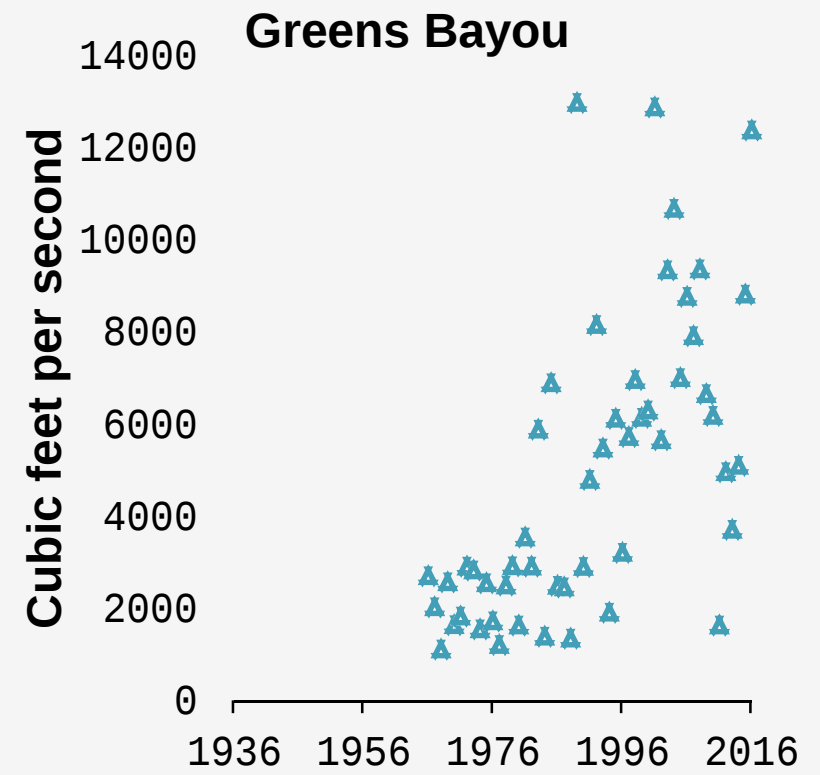
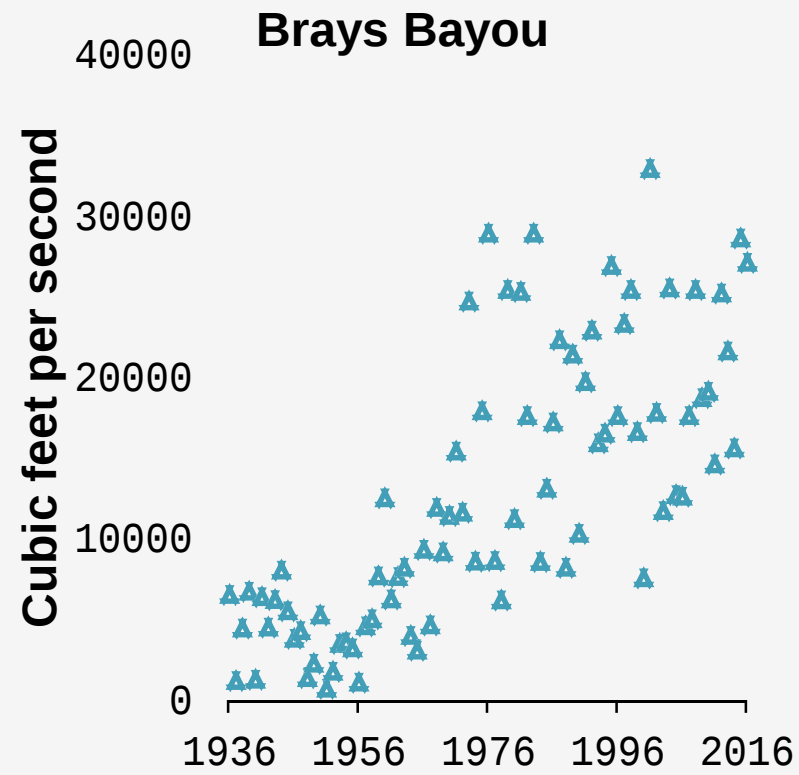
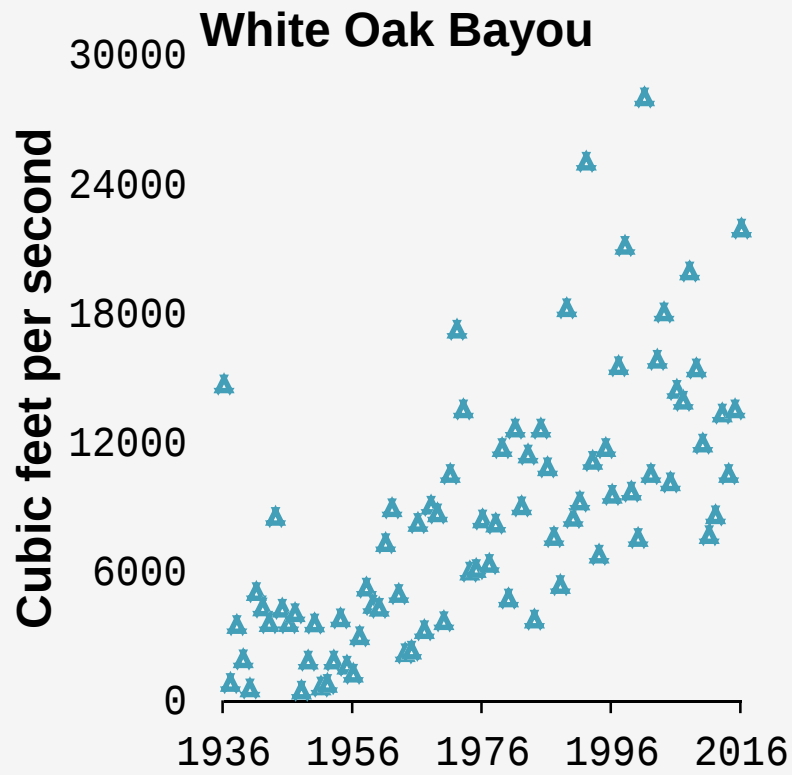
Issue: More frequent bankfull streamflows, channel migration, land loss



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Trend: Increasing rainfall intensity

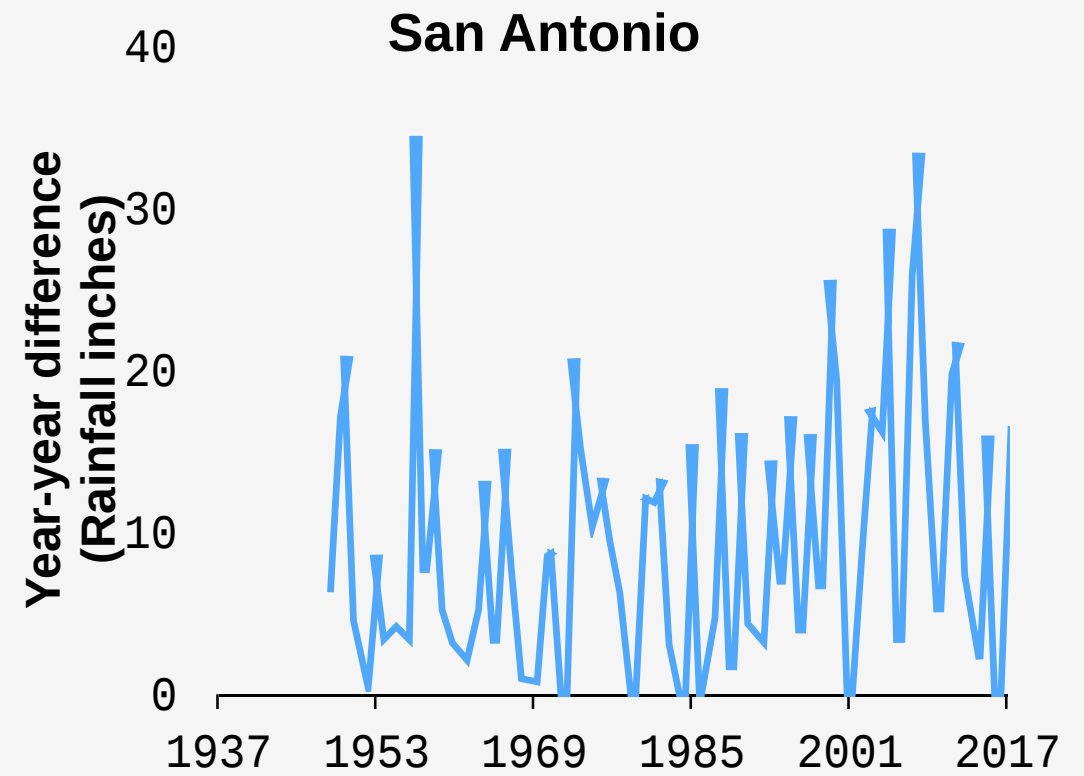
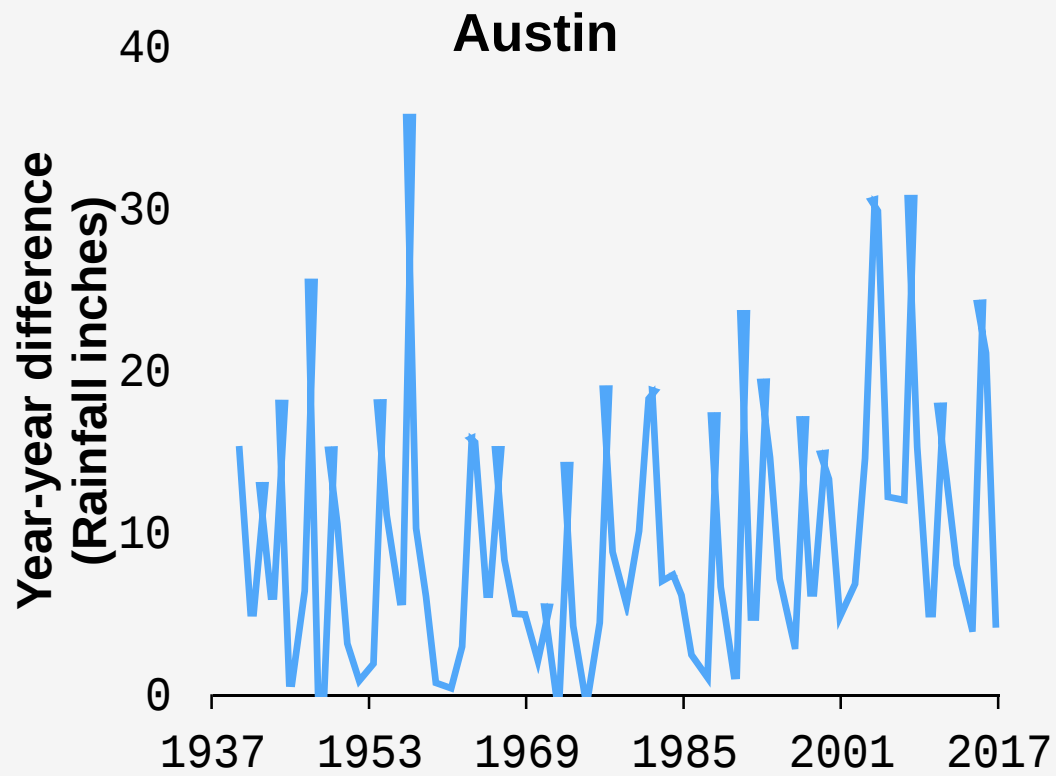
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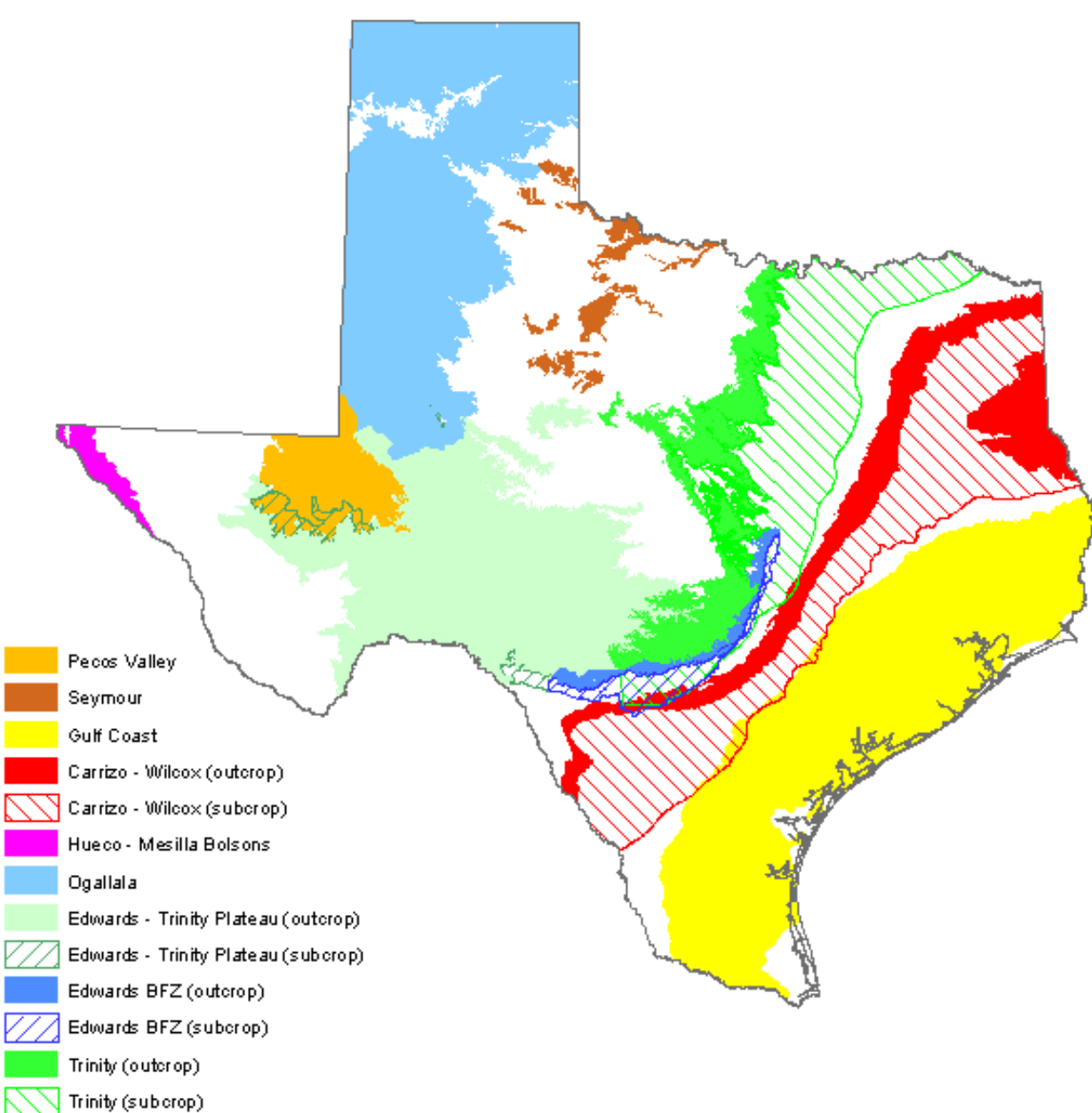


Location: Central Texas

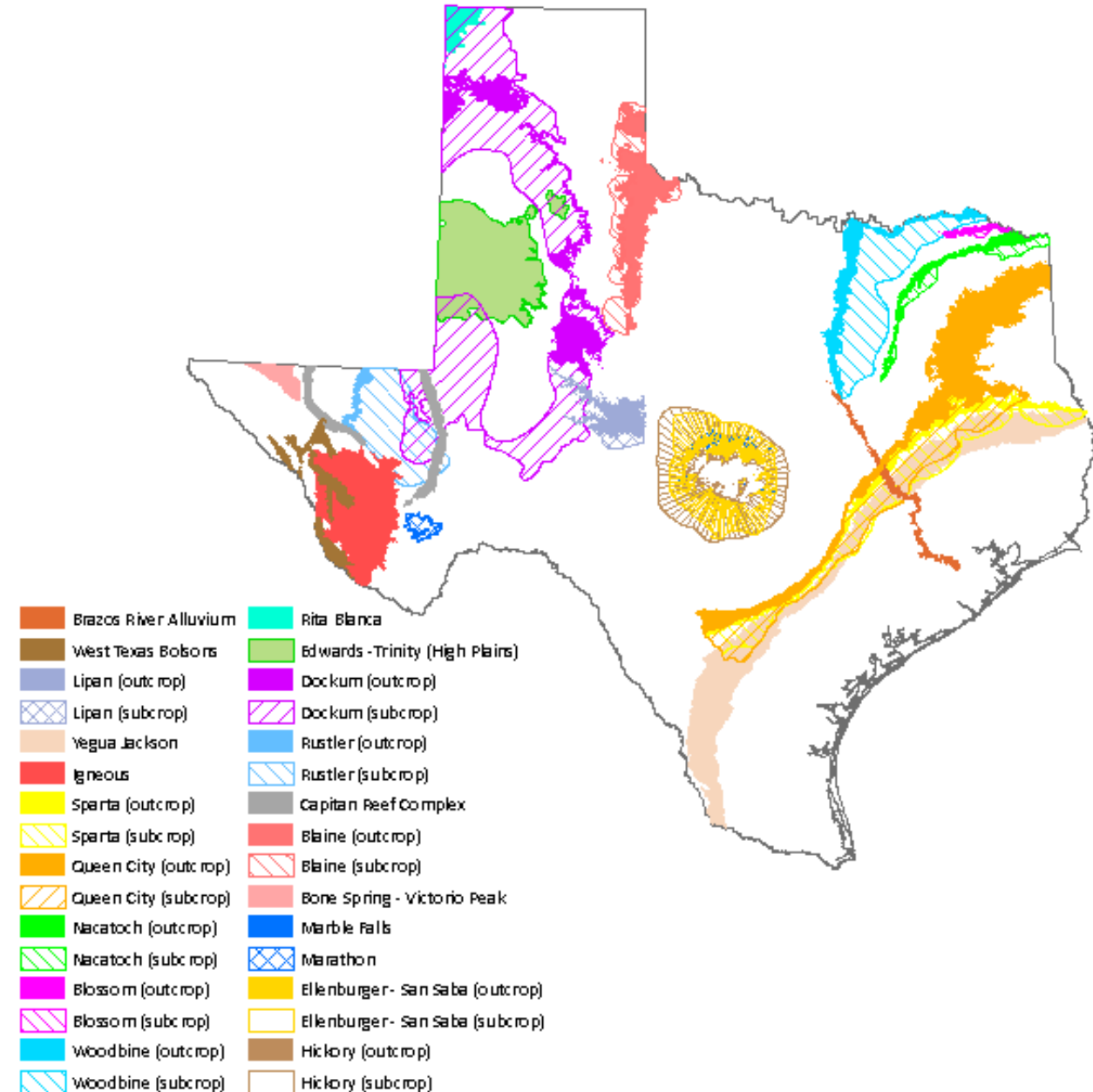
Trend: Rainfall variability

Issue: Flood-drought cycles, unreliable water supplies



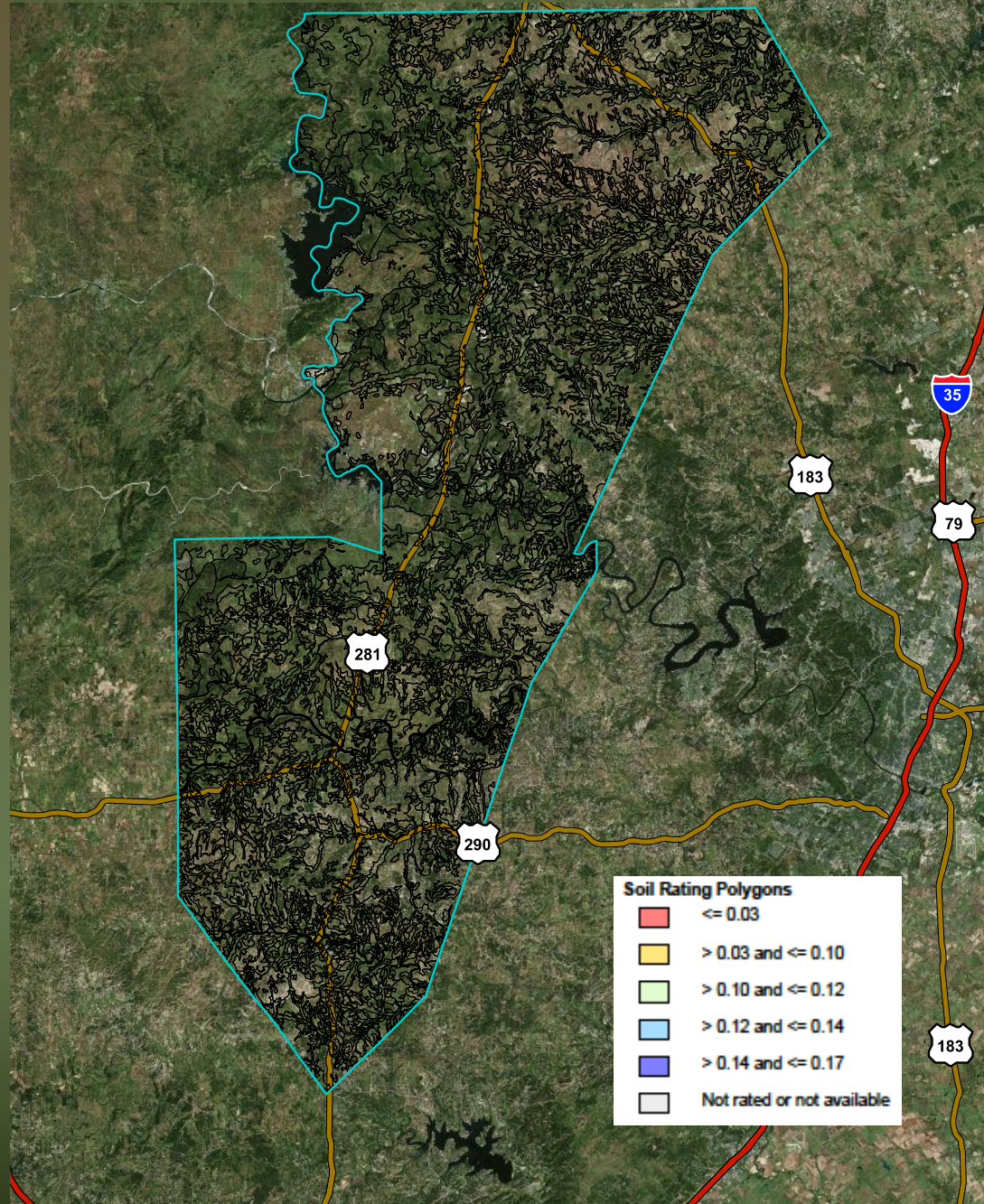


Major Aquifers

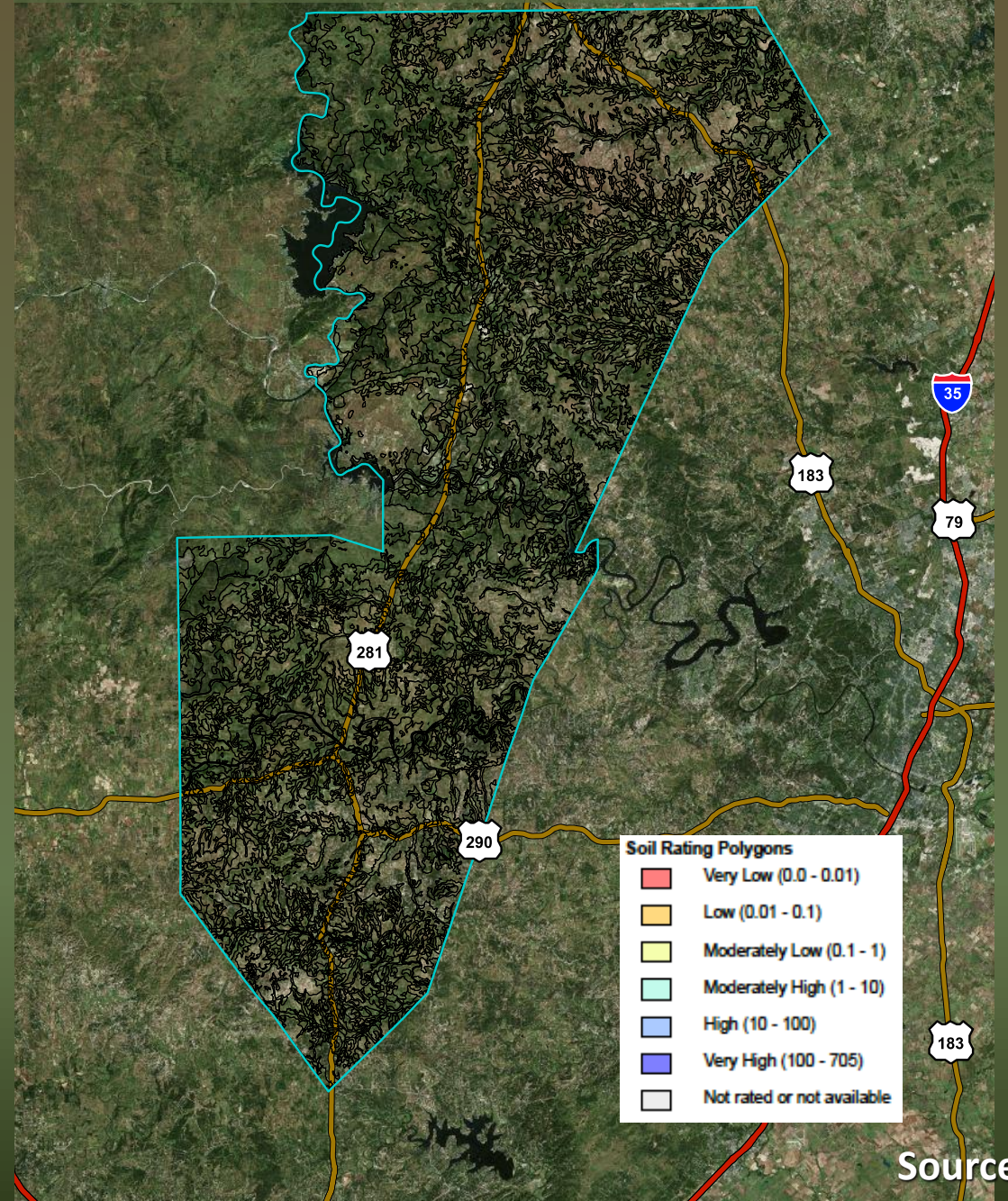


Minor Aquifers

Soil Water Capacity



Soil Infiltration Rate



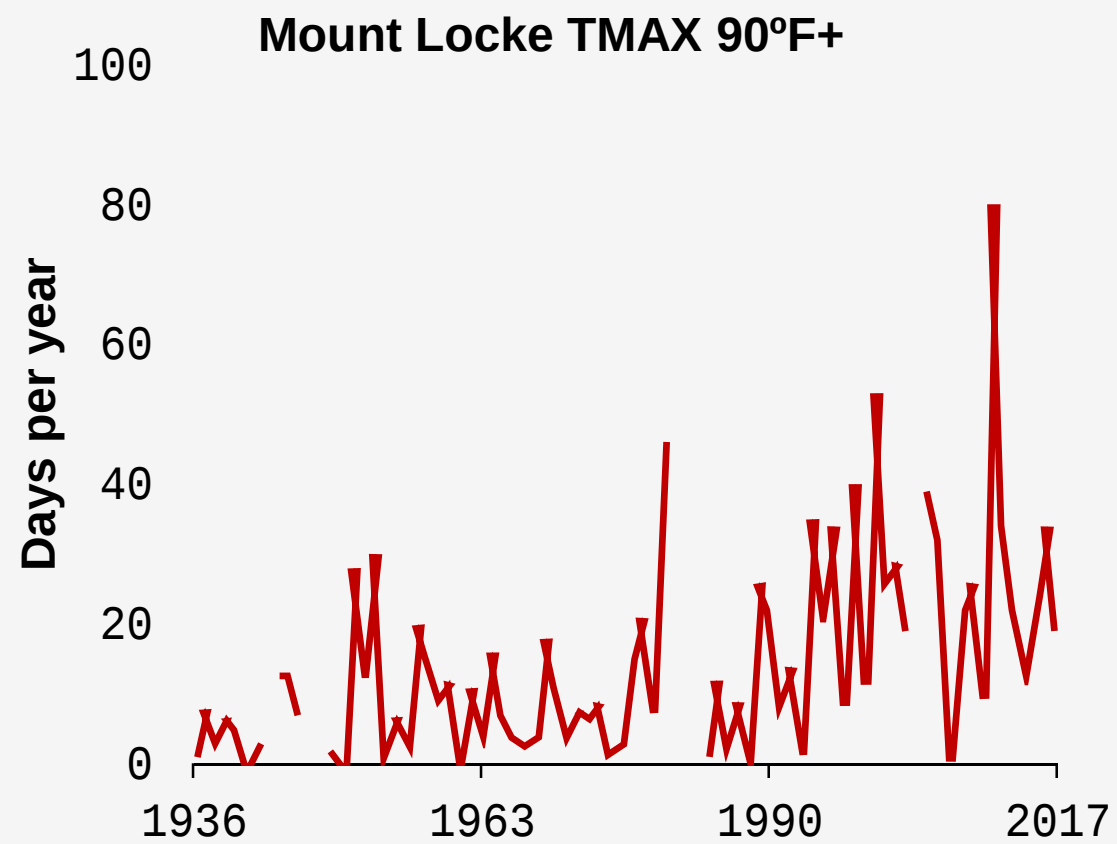


Location: West Texas Mountains

Trend: Increasing extreme temperatures

Issue: Migrations, ecosystem collapses, local extinctions

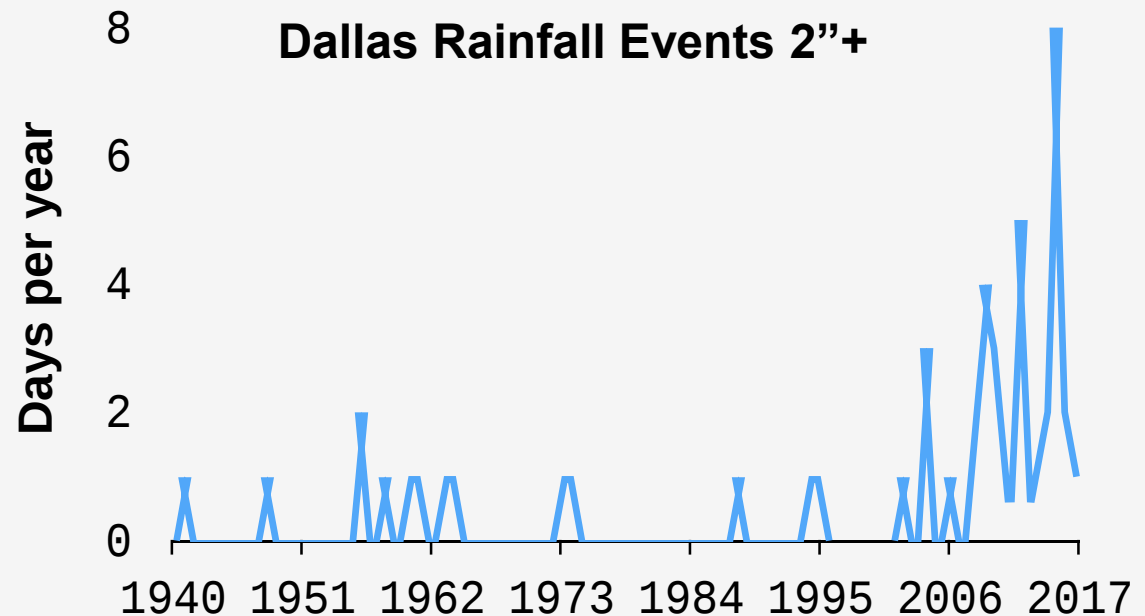
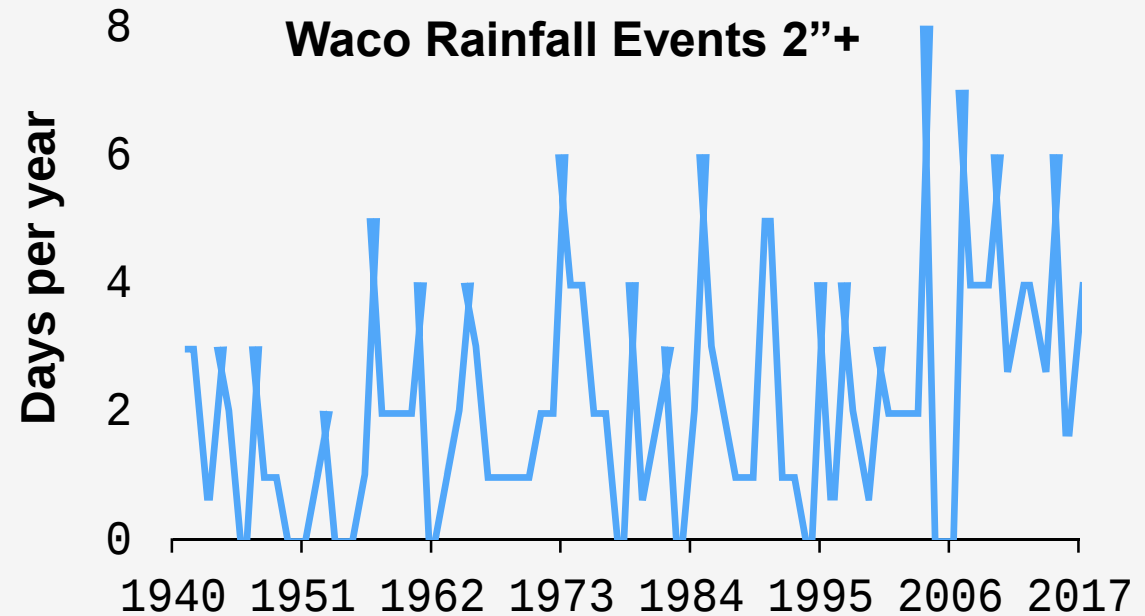




*Location:
Blackland Prairie*

*Trend:
Increasing rainfall intensity*

*Issue:
Soil erosion, nitrogen loss,
coastal dead zones*



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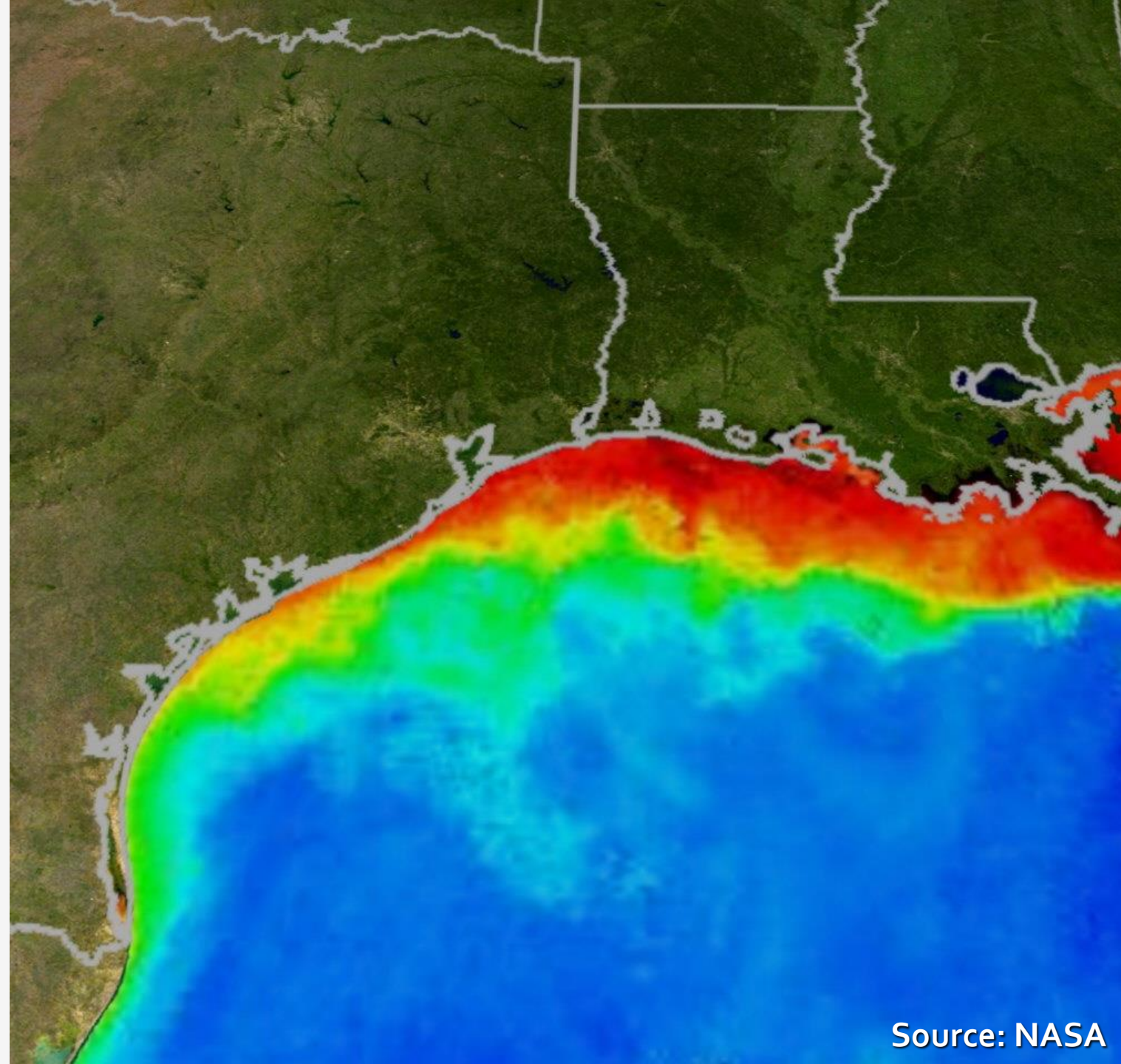
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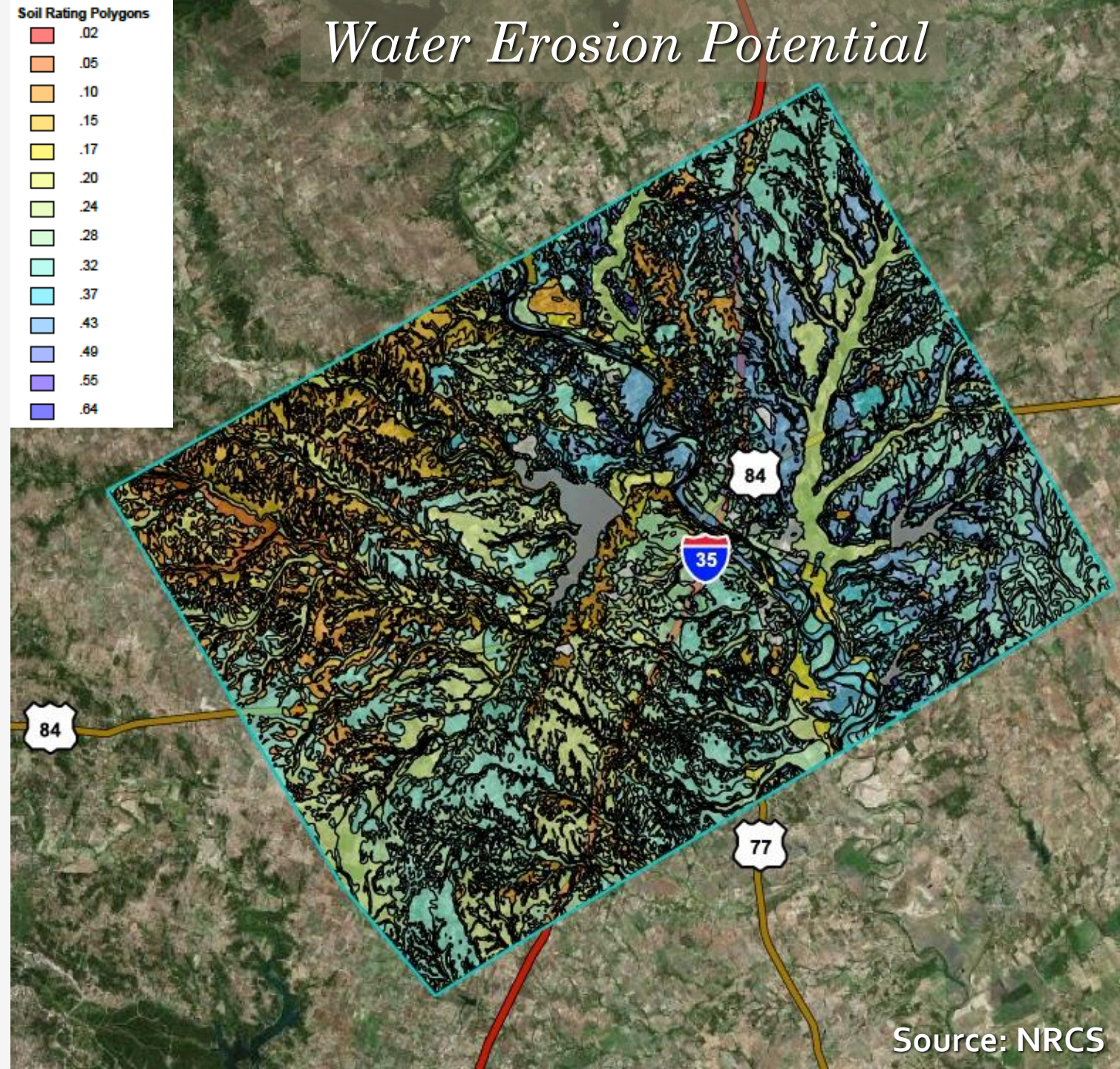


Source: NASA

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