

Image Sequence....

1989



1998



1999



2004



2005

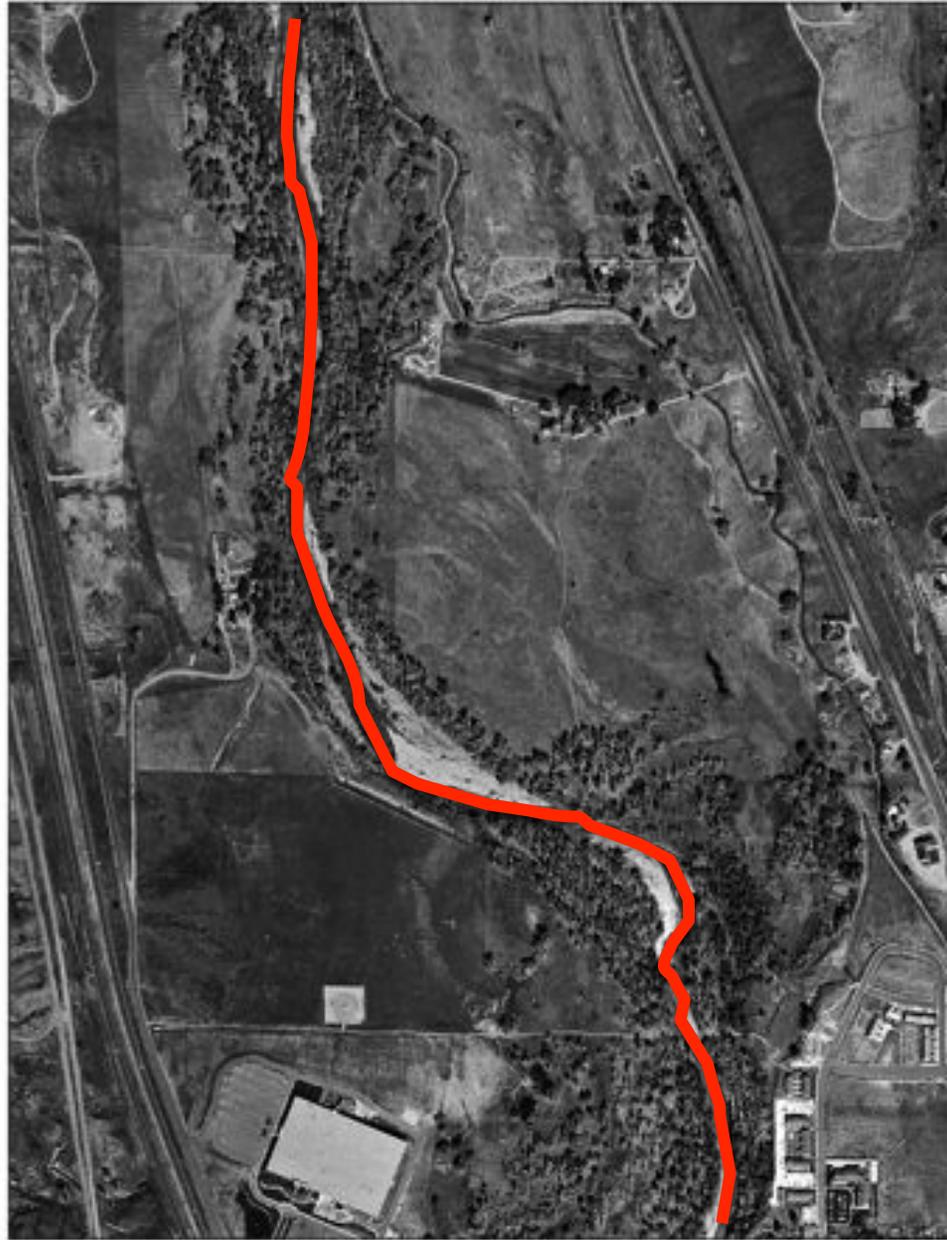


2006



Image Sequence...with River traces...

1989



1998



1999



2004



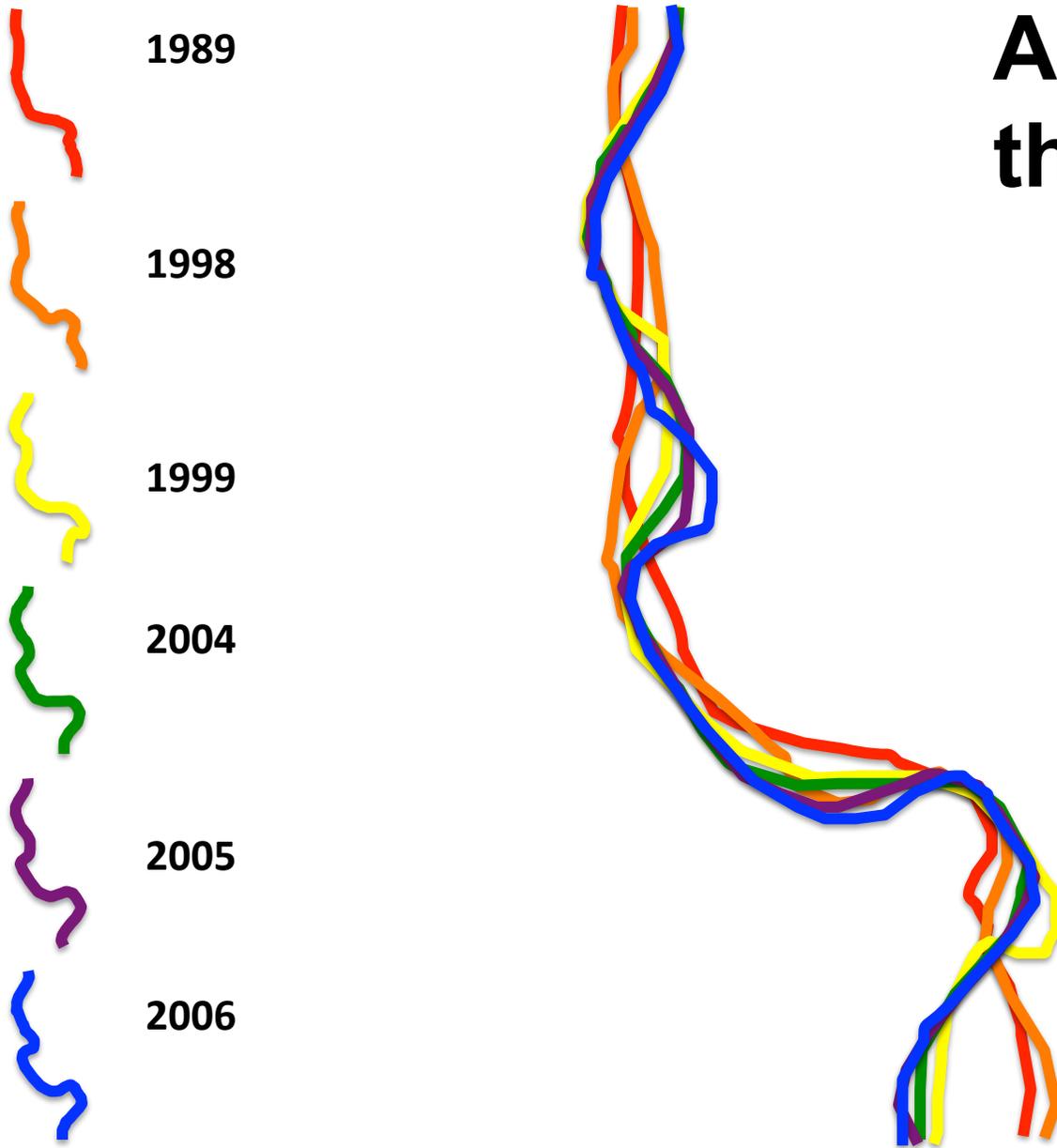
2005



2006



A River on the Move...



Notes/Thoughts/Quantifying

Length Increase – Sinuosity Increase – SLOPE decrease!

-Coming into equilibrium with higher discharges...due to urbanization upstream?

Cut-bank migration and point bar growth...certain places appear to have much faster rates of movement than others...

- some banks stabilized by humans (boulders/structures in place)

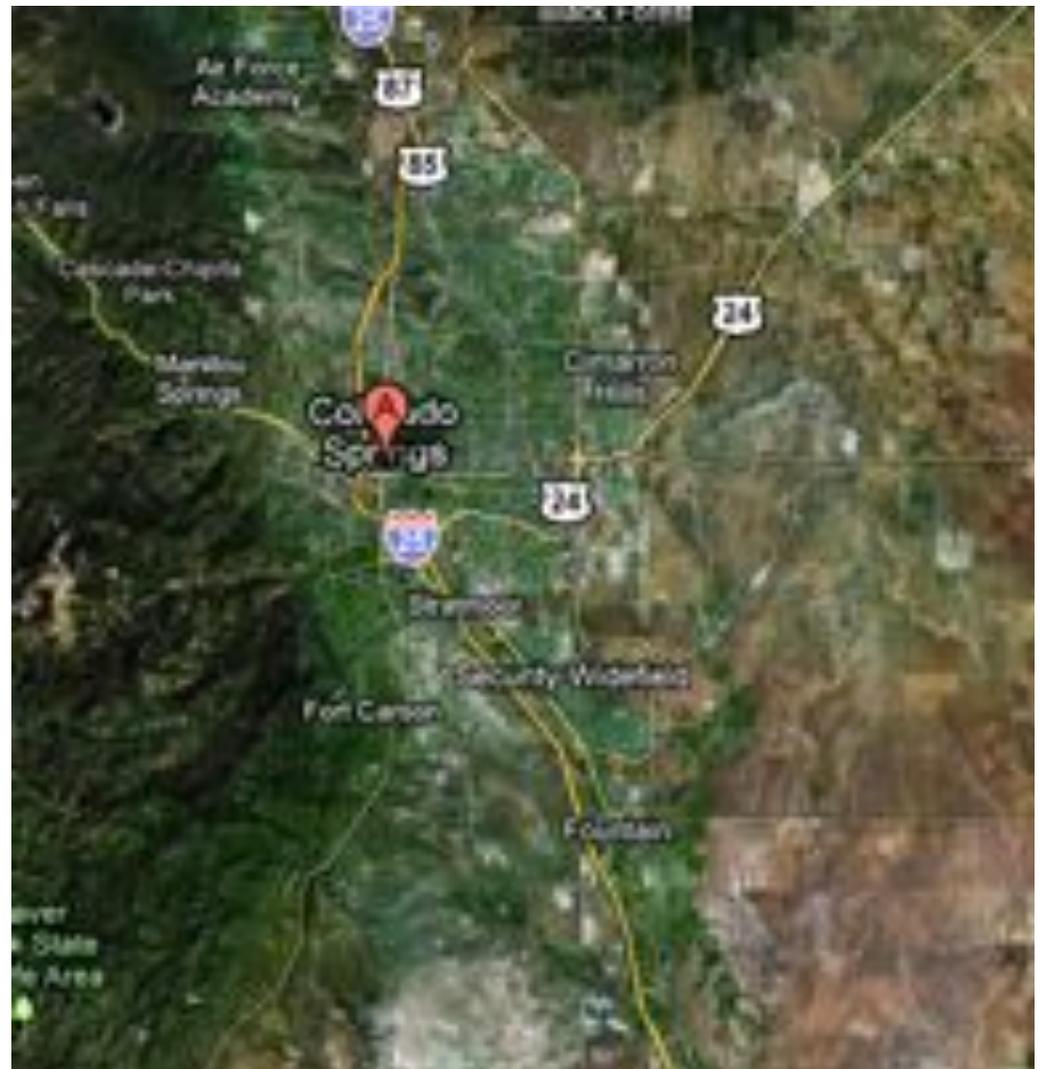
Avulsion in the southern part of the focus area!

Role of big floods (1995, 1999)...taking out trees, bank cohesion...river banks were more stable, trees were preventing cut bank erosion, once gone (big floods), cut-bank erosion takes off...

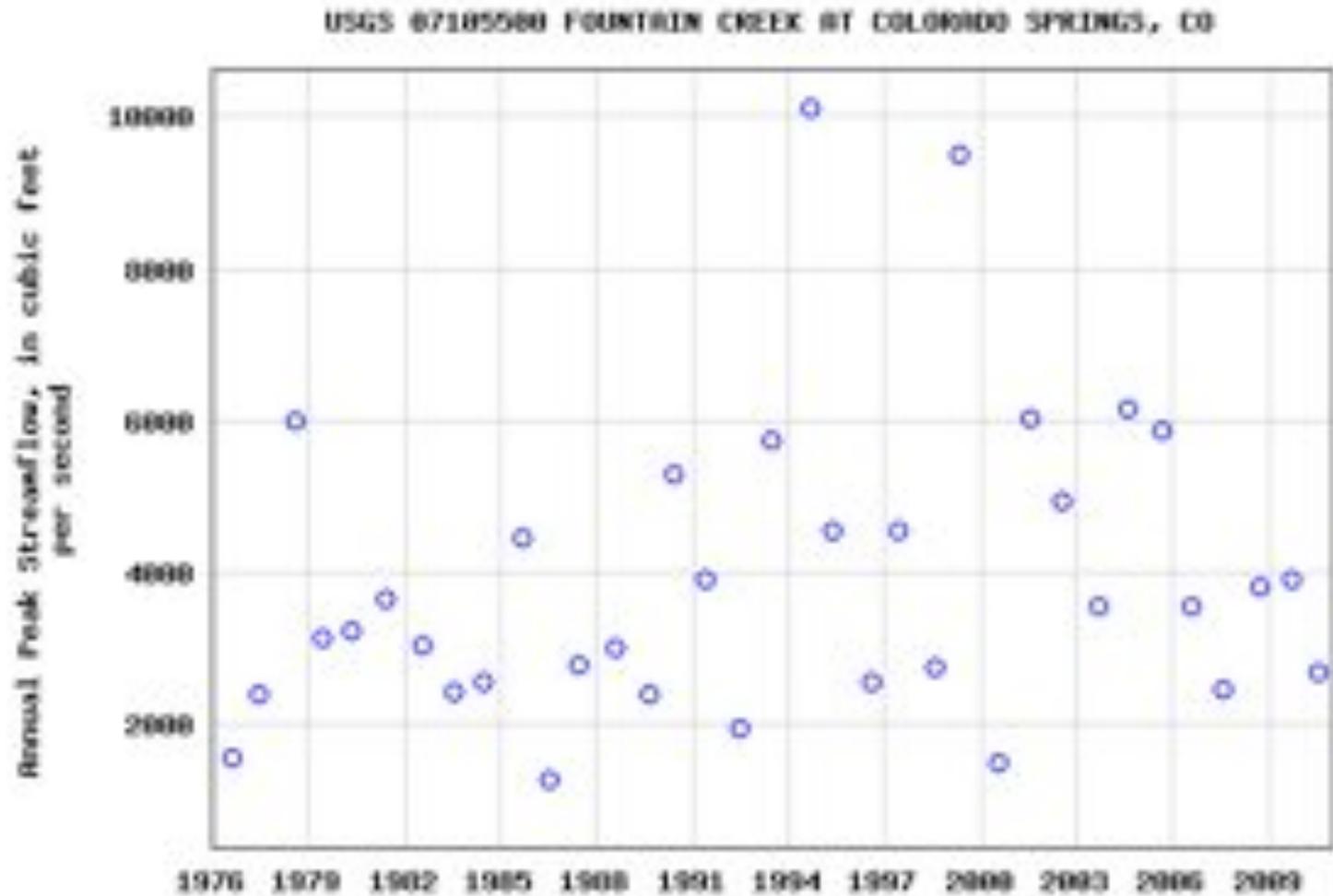


USGS Gage ~5 km upstream of our field site....

Downstream of major urban area...
Colorado Springs!



Fountain Creek USGS Gage (5 miles upstream, no significant tributaries)...
Peak magnitudes increasing? Urbanization...???



Field Photos....









Example Cross-section...Oct. 2008

Cross-section...

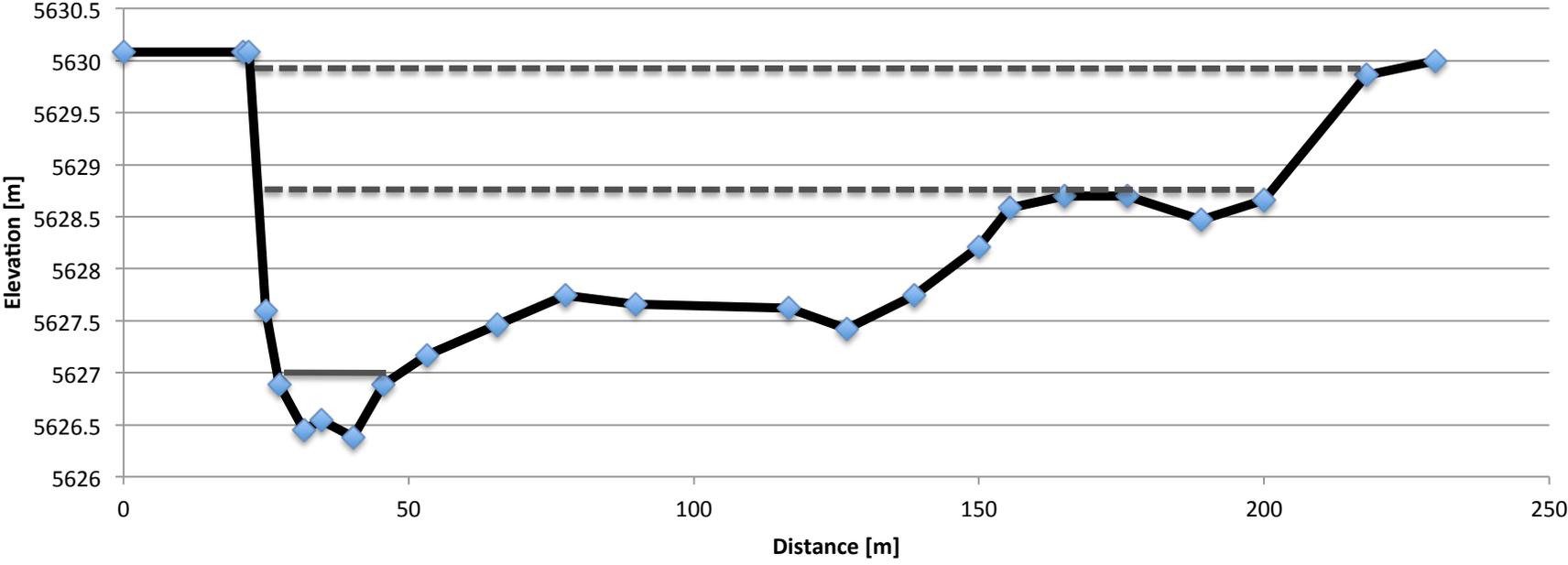


410 m

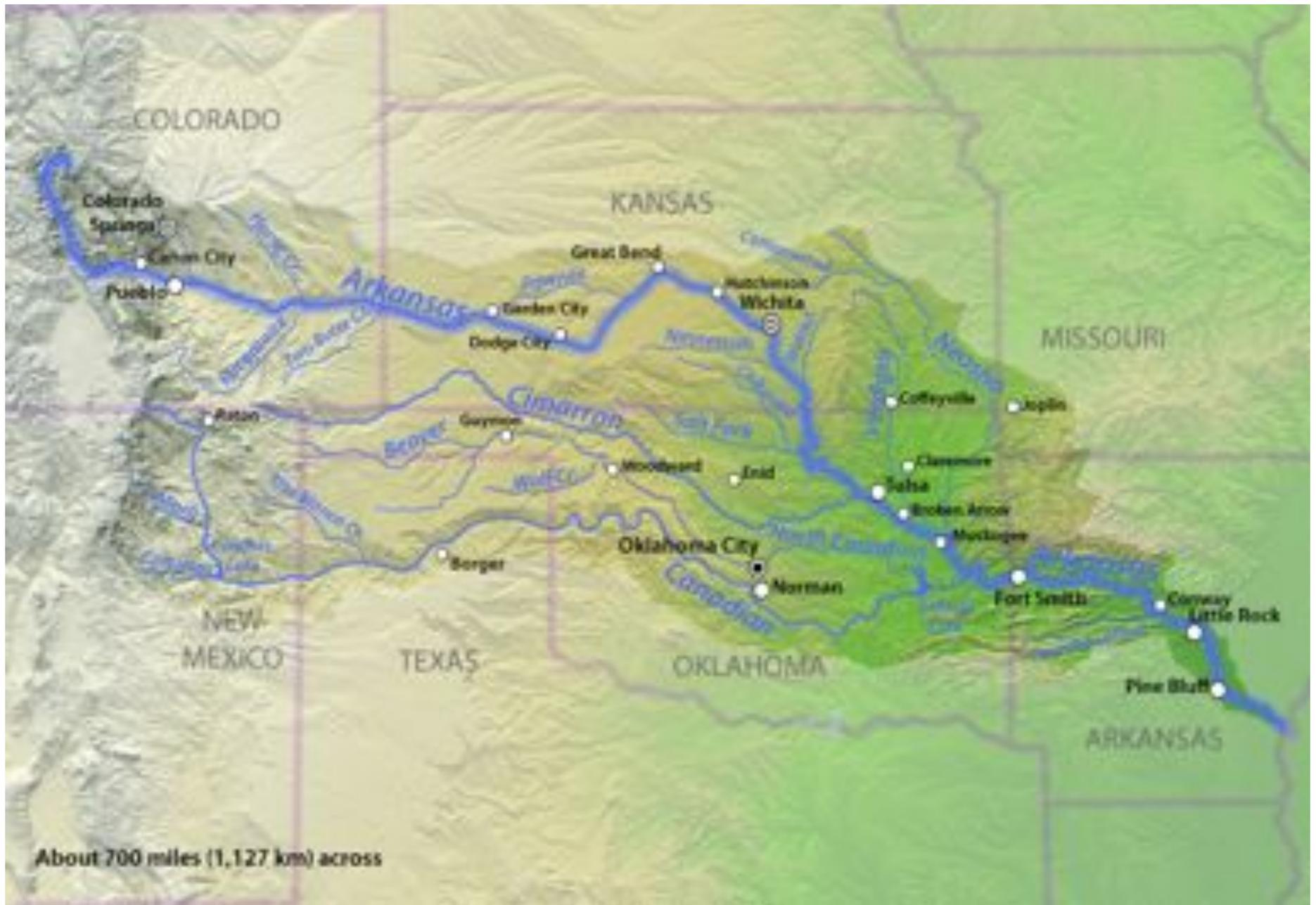
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Bankfull X-Section



Bigger Picture....



About 700 miles (1,127 km) across