A Dying River—Historical Transformation in the Arkansas River, Western Kansas

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325-13
Geomorphology: Channels and Channel Change at Short to Long Time Scales
Wednesday, 4 November 2015: 1:30 PM-5:30 PM
Down the Arkansas from Bridge at Garden City, K's.

Hoff-Pho

Highwater
WHY NOT GET A HOME IN THE GREAT SOUTHWEST

For Information about Kansas, Oklahoma, Pan Handle of Texas, Colorado, New Mexico, Arizona and California.
John Martin dam and reservoir, eastern Colorado (1948)
Width Changes using Original Federal Land Survey (1871) and Aerial Photography
Decrease in Width (~450 m to 20-30 m)
Entrenchment (4-5 m)
Increase in Sinuosity (~1.2 in 1939 to ~1.5 in 2014)
Only a small Q near state line – to irrigation canals
A Different Perspective!

LGM Paleochannels

20-18 ka
Thank you!

USGS EDMAP Program
The University of Kansas General Research Fund
Kansas Geological Survey