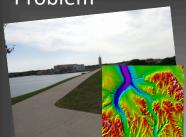
### Analysis of a probable flood zone in the case of dam failure in Collin County

rmining the Flood zon

 $L_u \approx 0.012*K_s*\sqrt{2}*C*H$ 

num height of the Dam (in feet)

# Problem



## Data & Methods

Built in 1958 by USDA **Emergency Action Plans for floods** mandated by state

Actual dam from Collin County



m? = (3,260 – 94,109) / 5.19

 There is a linear decrease relationship where at o feet from the dam the flow will equal Qb (94,109 cfs), while at 5.19 miles, the deluge's

extent, the flow will equal Qs (3,260 cfs) Determine the slope using y=mx+b
3,260 = m? \* 5.19 + 94,109

After 5.19 the flow will be a constant 3,260 cfs

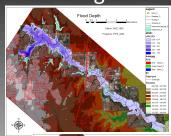


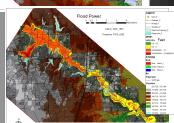
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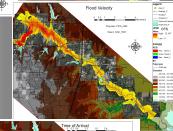


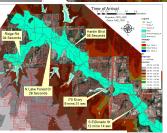


# **Findings**









Results – Population Effected

