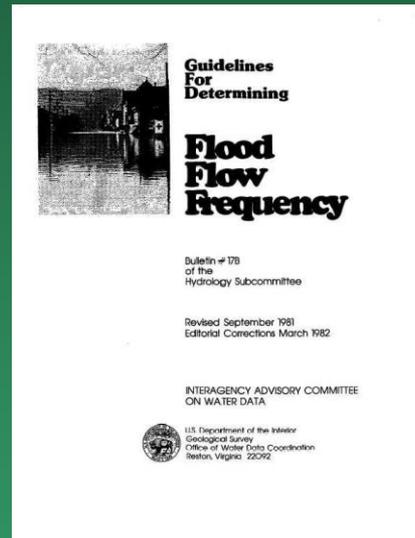


# Status Report on (HFAWG) Activities Related to Bulletin 17B Restudy



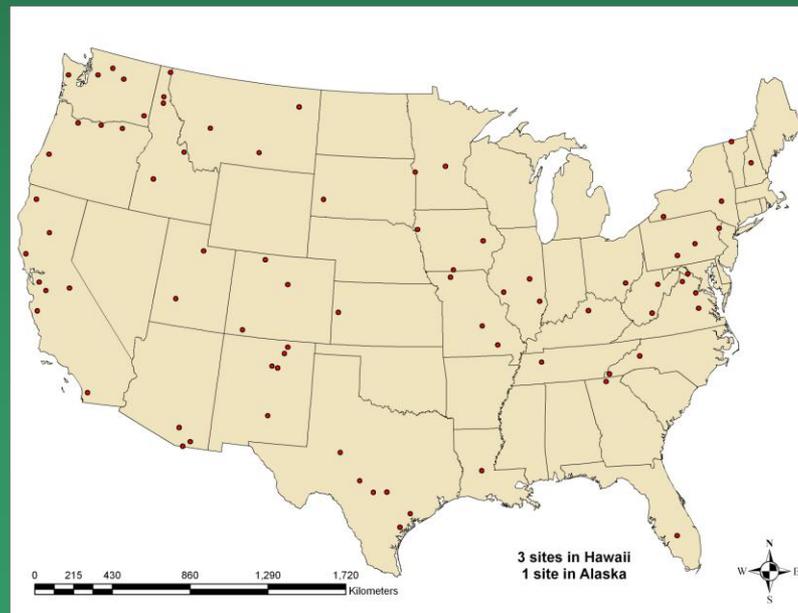
**Tim Cohn**  
**USGS Office of Surface Water**  
**Reston, Virginia**

# Study Components

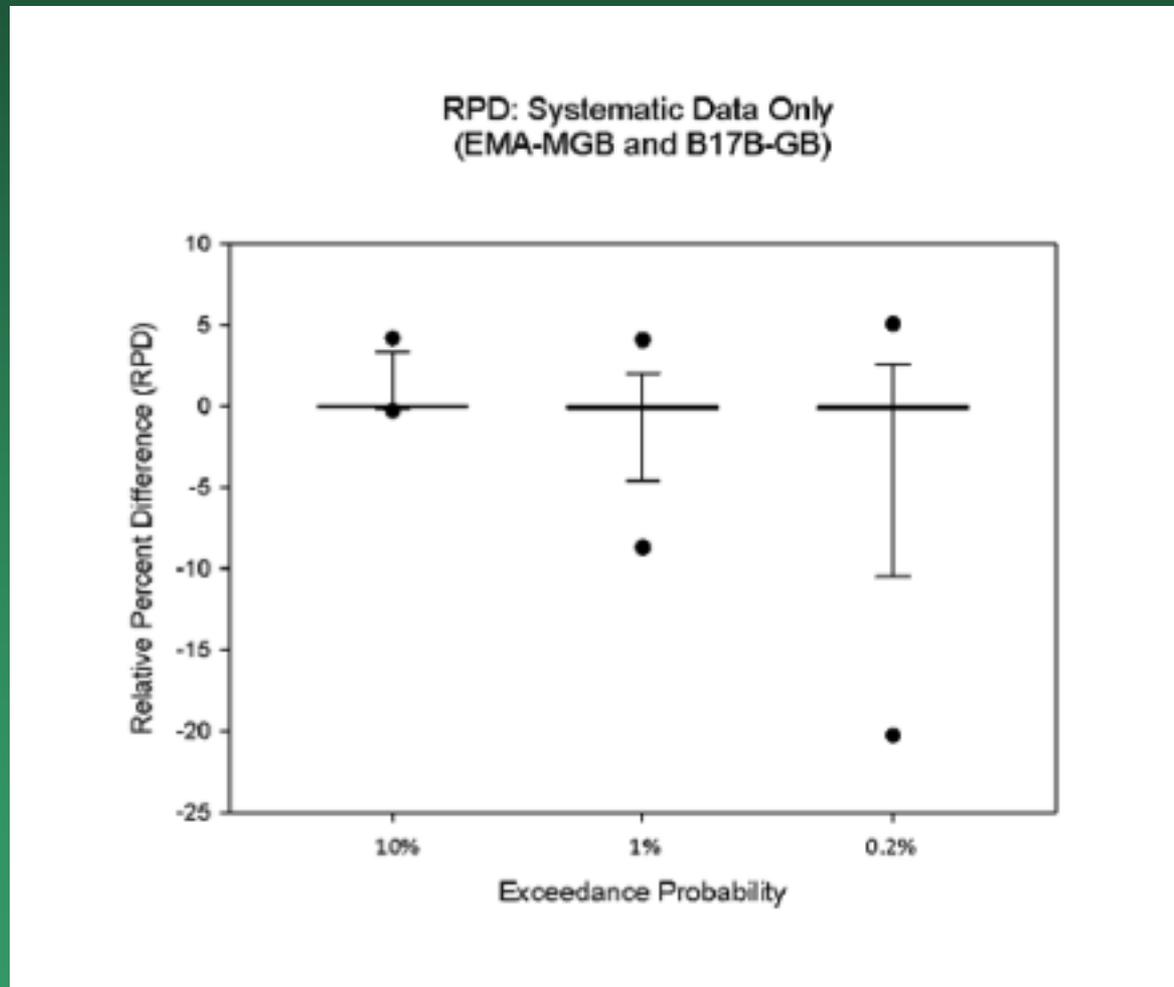
- 82 Site Comparison
- Monte Carlo Results
  - Comparisons of Grubbs-Beck and Multiple Grubbs-Beck Low-Outlier Tests
  - Efficiency of B17B vs. EMA for Historical and Paleoflood Information
  - Robustness Studies
- Resampling Studies

# Sites Considered

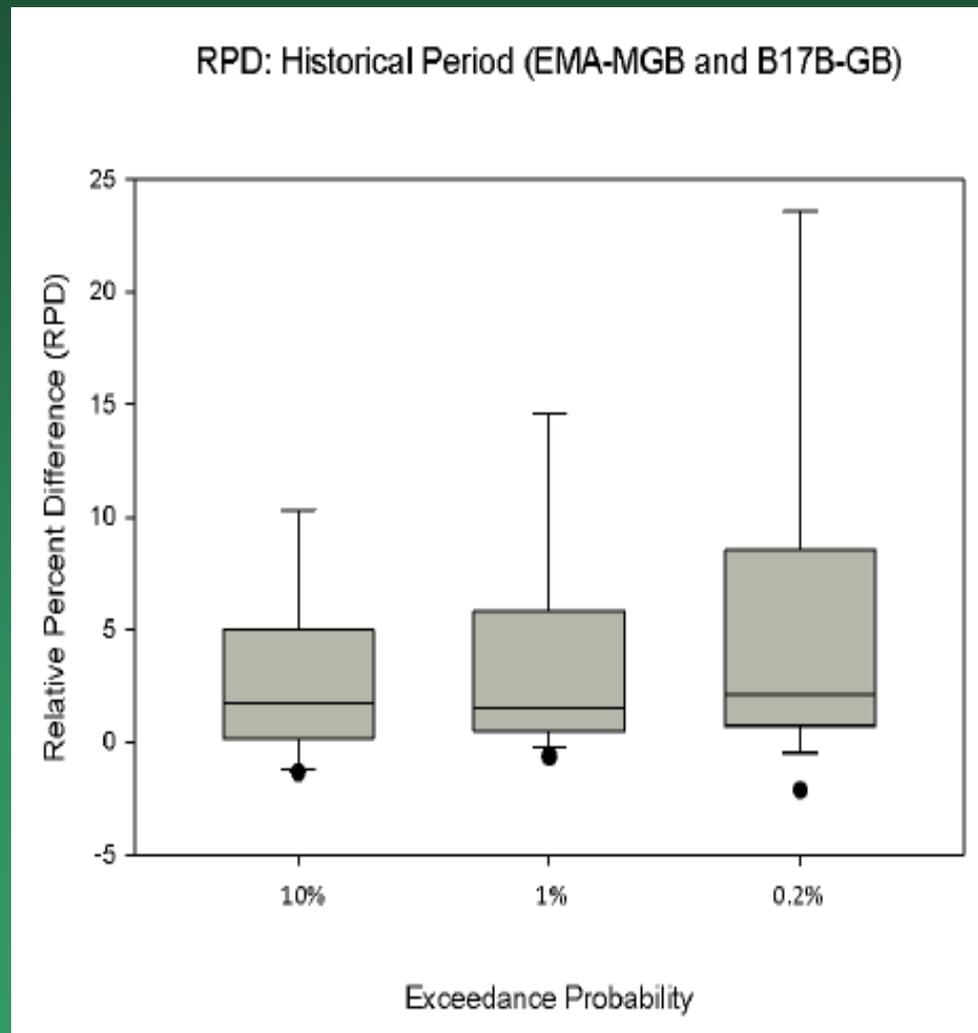
Category	Number of Sites
Total Number of Sites	82
Historical Information at Site	28
Largest Observation 40% above model	22
Low Outliers	41



# SP1: Systematic Data Only

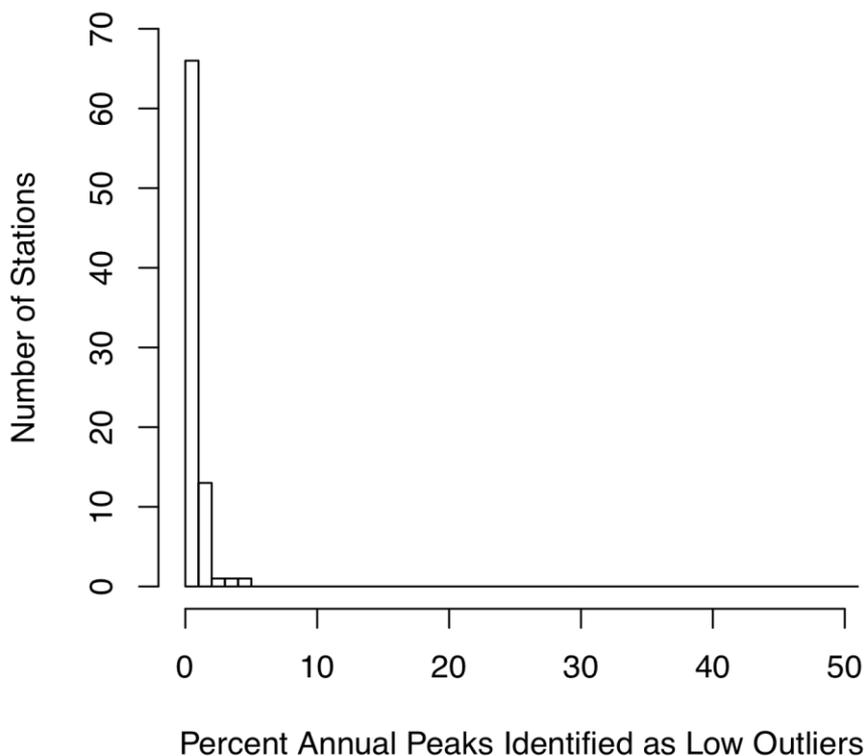


# SP2: Historical Info

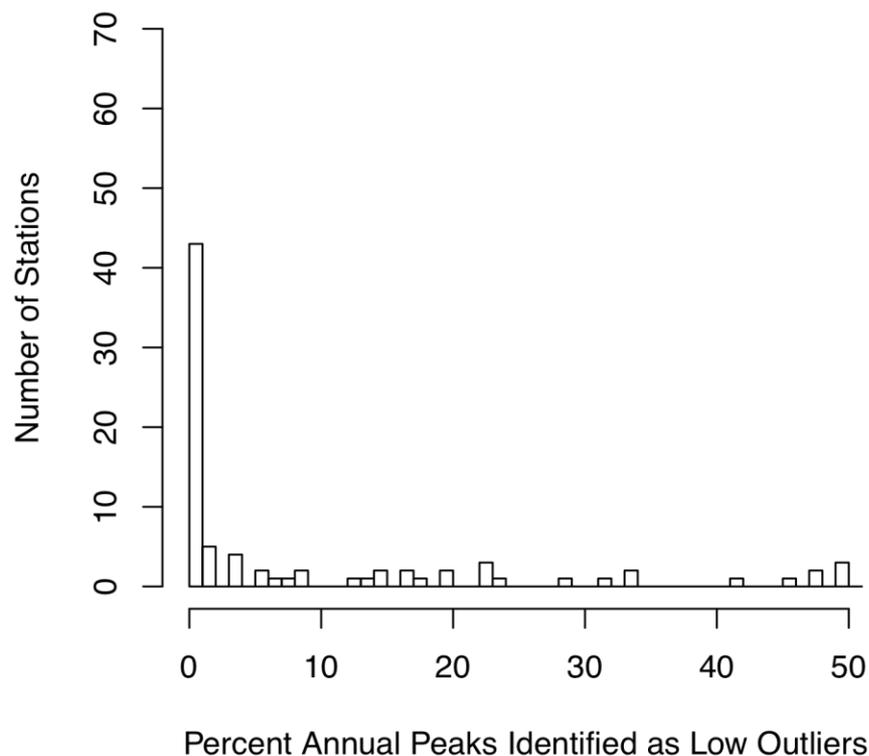


# Number of Low Outliers Identified by Traditional and Multiple Grubbs-Beck

Traditional Grubbs-Beck Test (PEAKFQ/B17B)

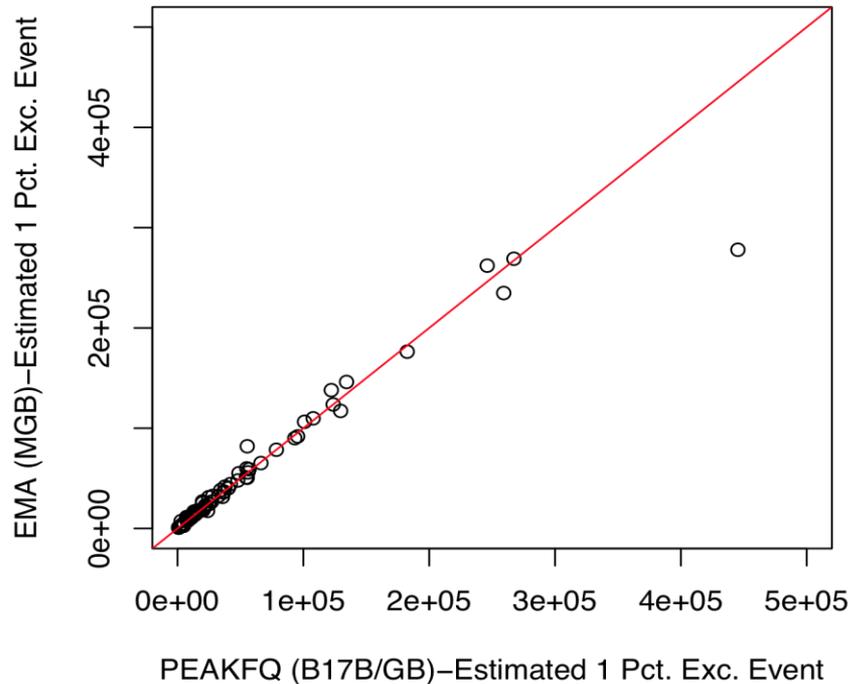


Multiple Grubbs-Beck Test (EMA)

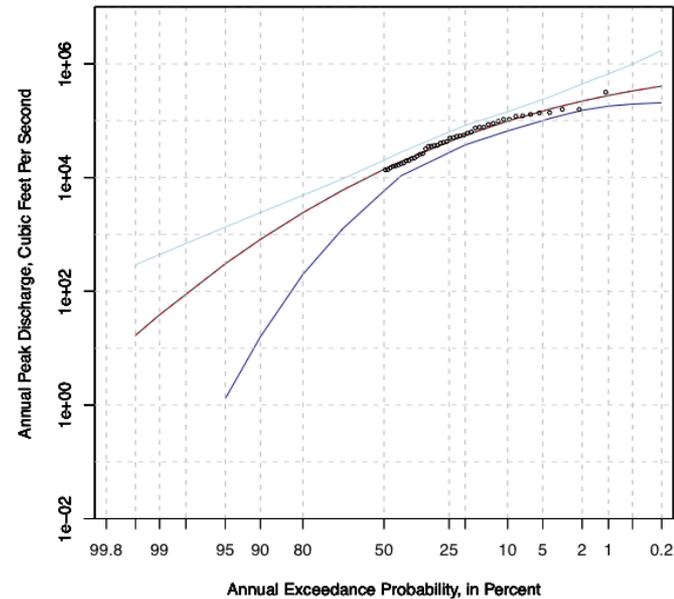
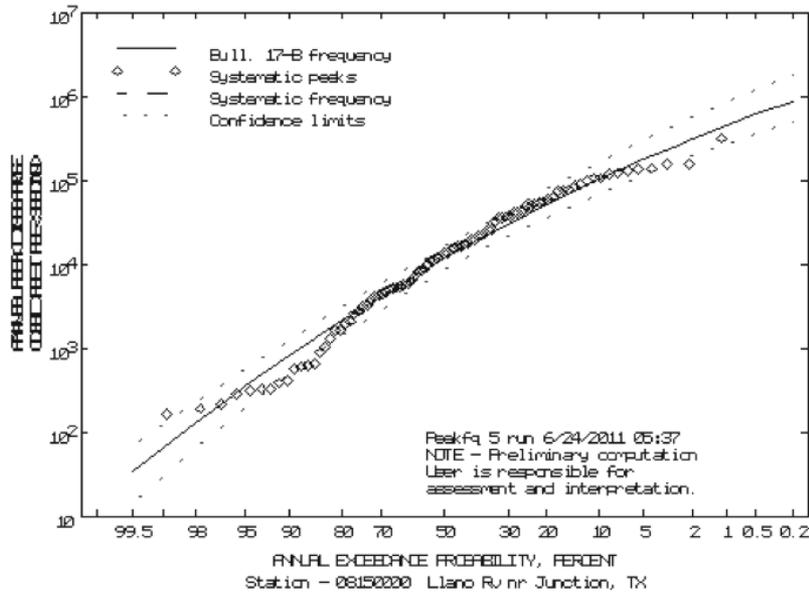


# Comparison of PEAKFQ and EMA

Comparison of PEAKFQ (B17B) and EMA Estimate:



# Most Extreme Difference 37% Llano River (08150000)



PEAKFQ  
(B17B/GB) Fit

EMA  
(MGB) Fit

# Status

- Software:
  - Draft version of PEAKFQ that includes EMA and MGBT is now in final testing
- Testing:
  - We have completed the analysis of the 82 test sites
  - Testing of new Multiple Grubbs-Beck Test is complete
  - Monte Carlo comparisons are complete
  - Robustness studies are underway

# Status (Cont'd)

- Report:
  - Outline complete
  - Draft version of first chapters (82 sites) now available
  - Other chapters in preparation

Thank You!