

Zonal Flood Potential Plots, with Prediction Equations: Northern Rocky Mountains Region

2020-8

23 zones

Months of occurrence for the largest 5% floods also provided in seasonal plots

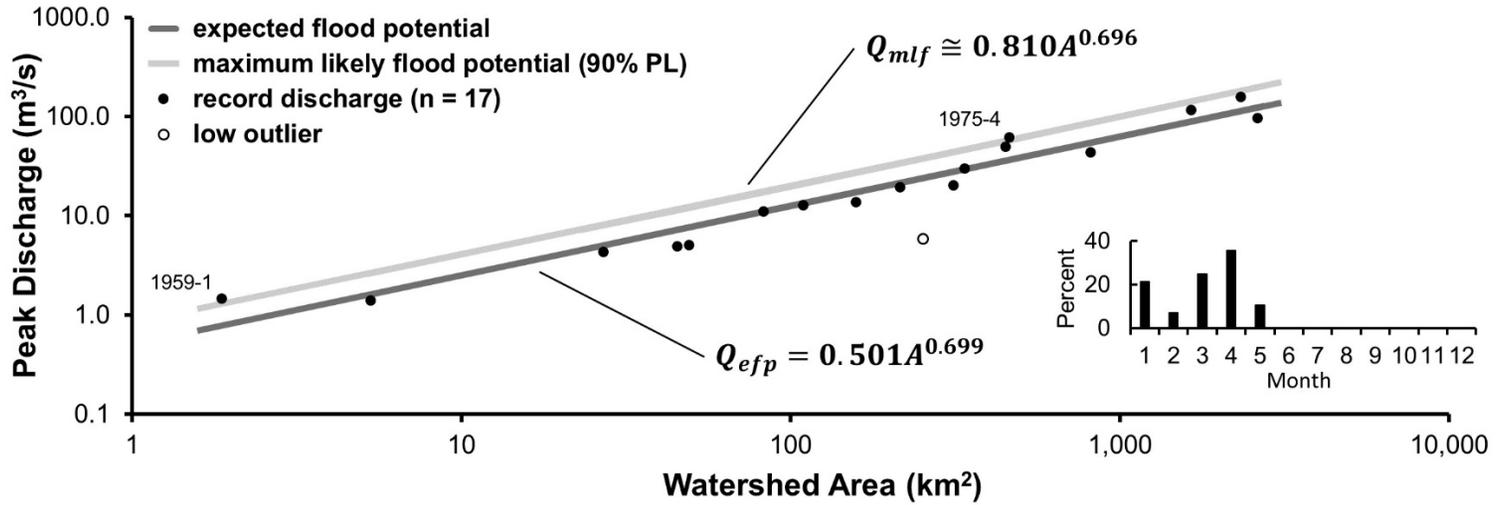


*Flood Potential Plots, Northern Rockies Region
Developed by: Steven Yochum*

*U.S. Department of Agriculture, Forest Service
National Stream and Aquatic Ecology Center*

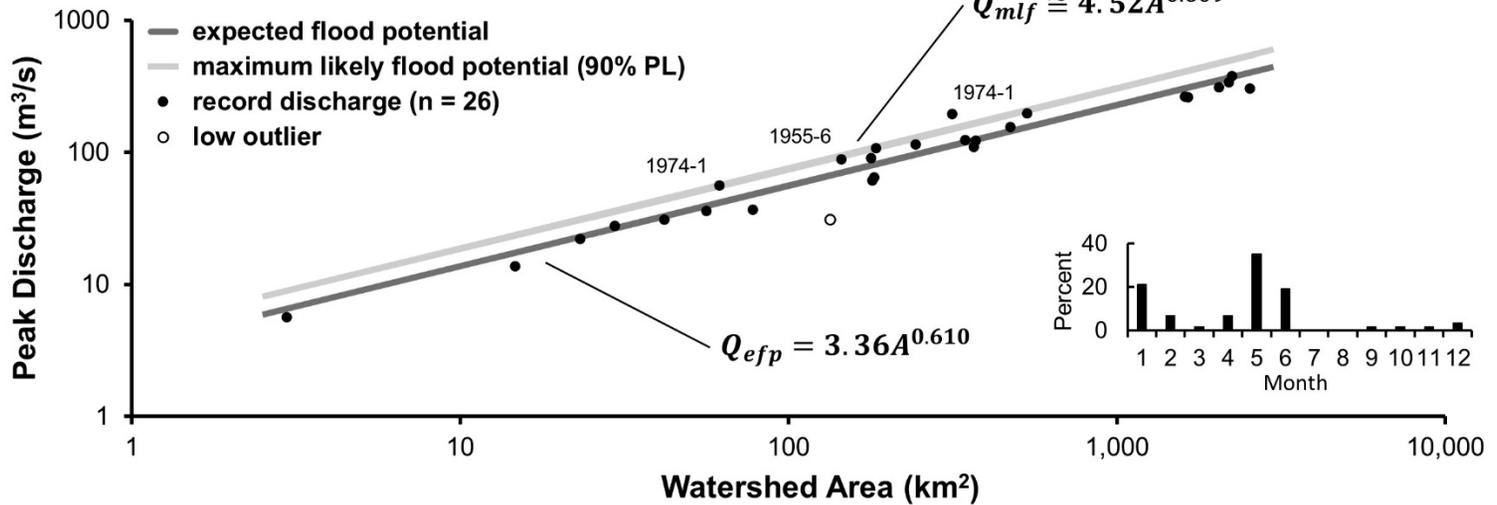
Zone 40: Northern Rockies, Northwest Transition ($P_f = 0.97$)

$R^2 = 0.95$



Zone 41: Northern Rockies, Northwest ($P_f = 4.1$)

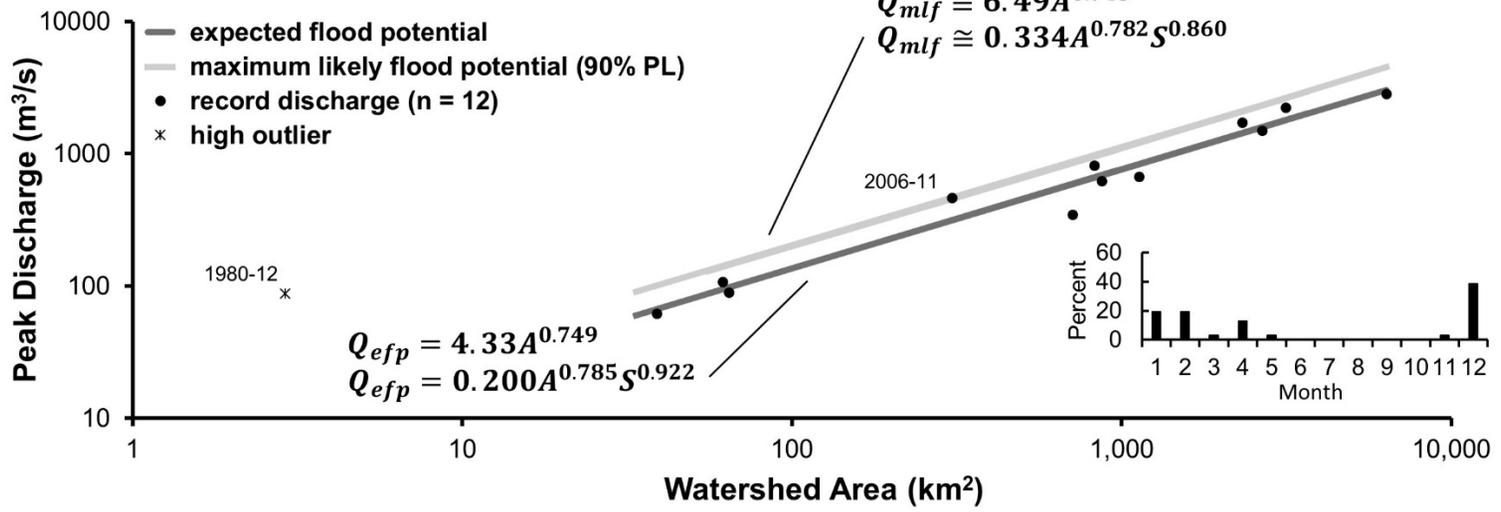
$R^2 = 0.96$



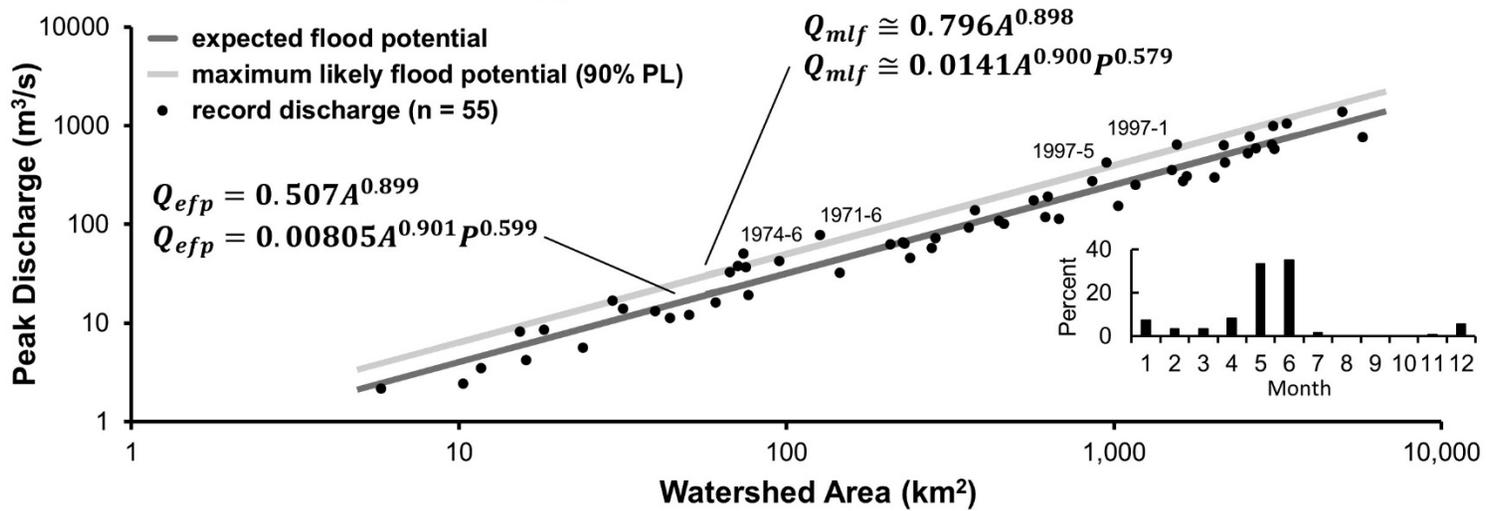
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Zone 42N: Northern Rockies, North ($P_f = 10.9$)



Zone 42W: Northern Rockies, West ($P_f = 3.0$)

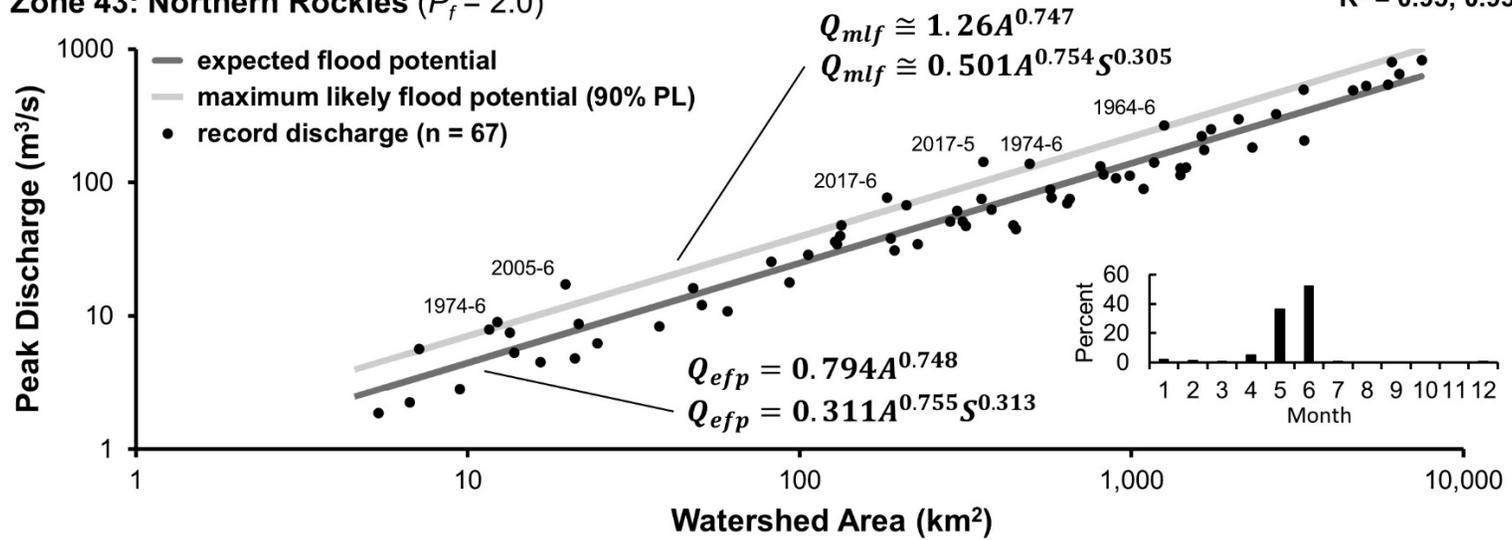


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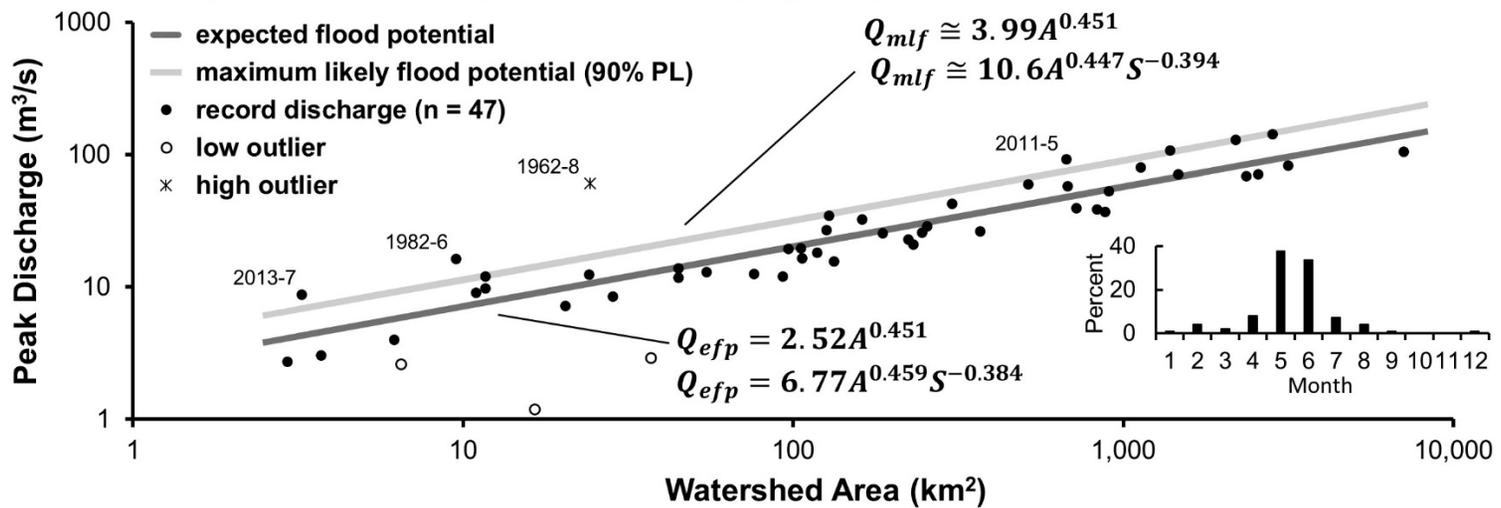
Zone 43: Northern Rockies ($P_f = 2.0$)

$R^2 = 0.95; 0.95$

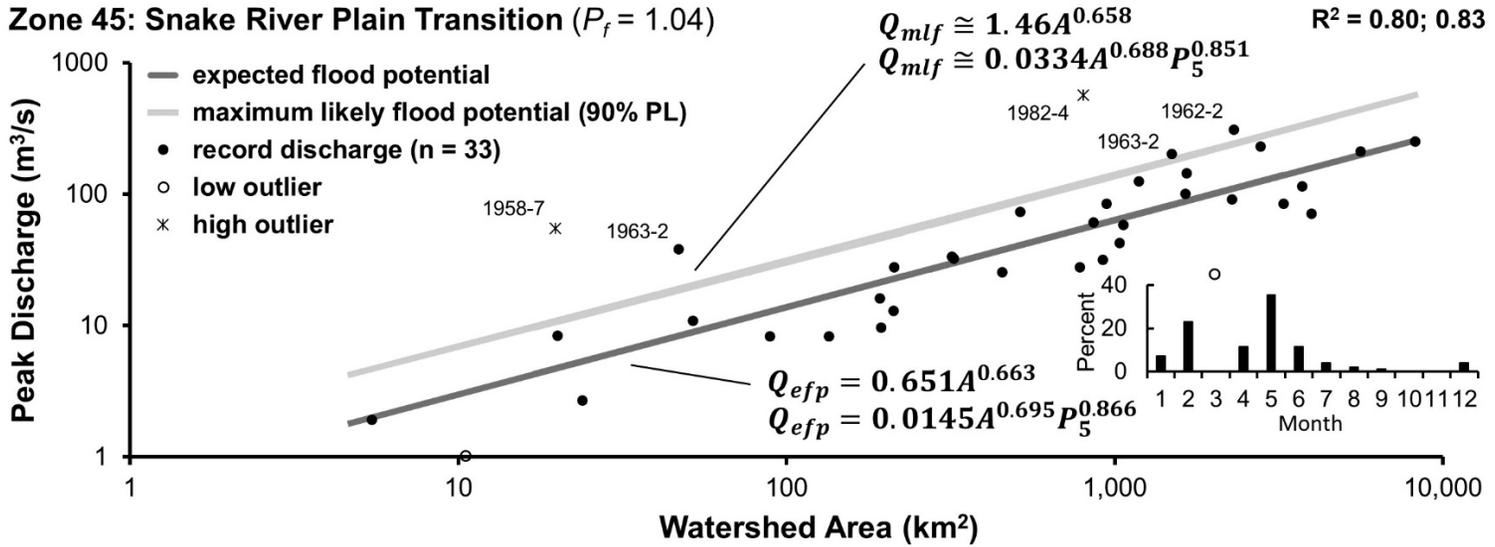


Zone 44: Orographic Sheltered (Northern Rockies) ($P_f = 1.5$)

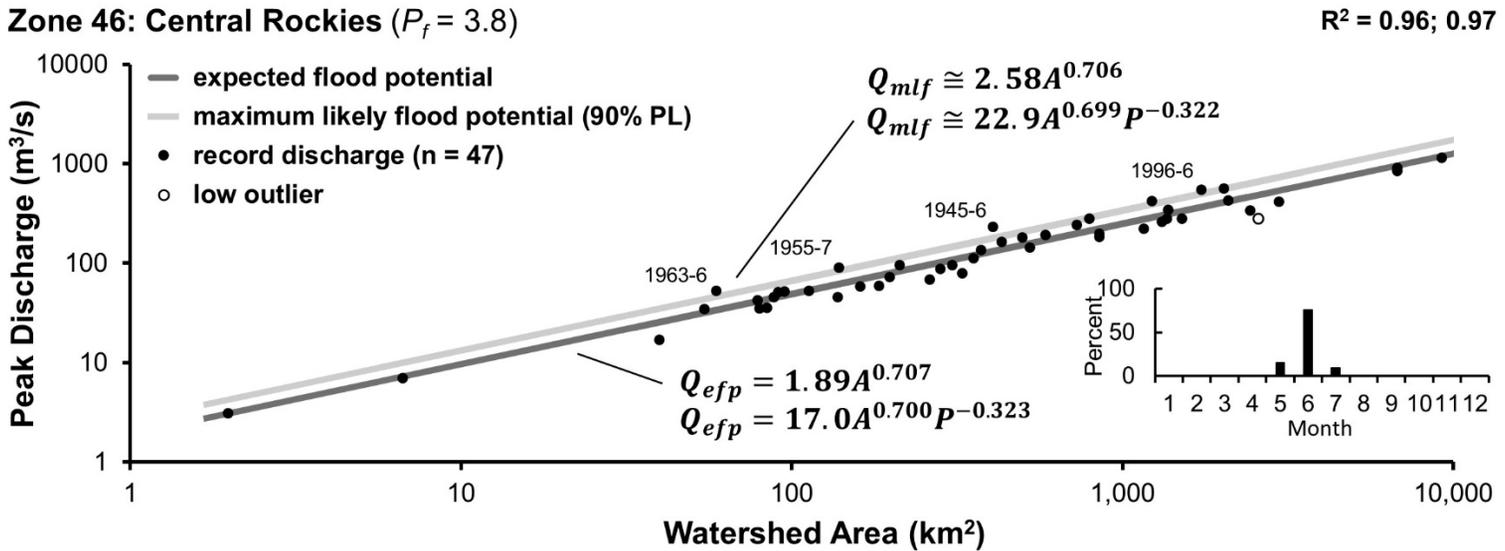
$R^2 = 0.87; 0.90$



Zone 45: Snake River Plain Transition ($P_f = 1.04$)

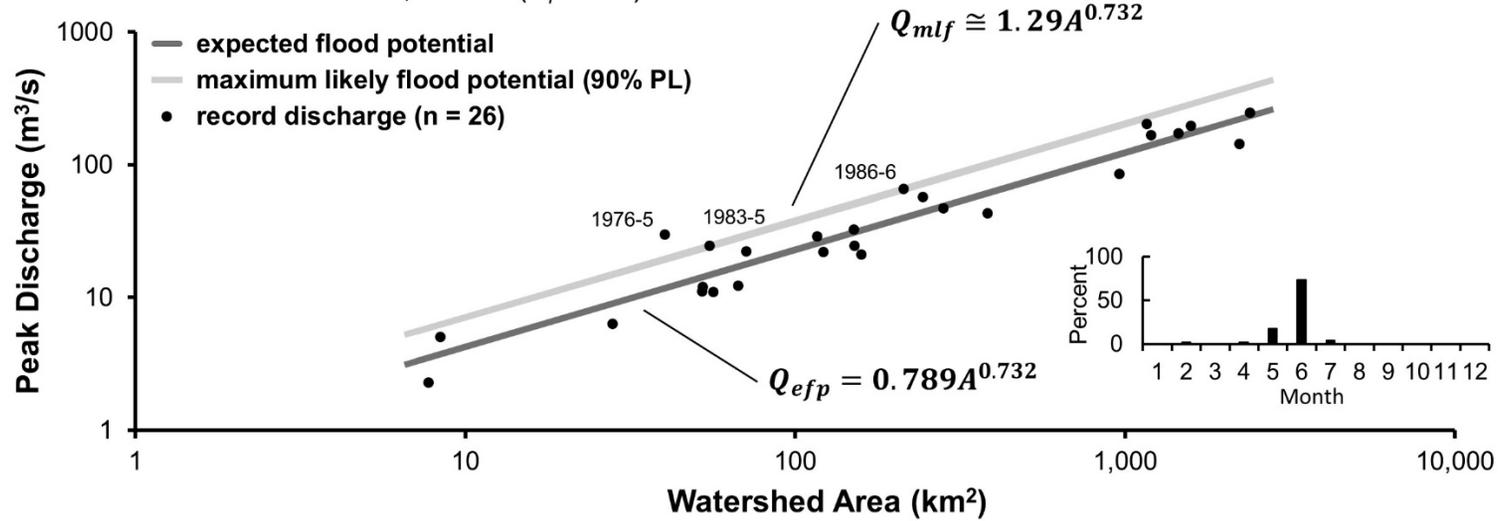


Zone 46: Central Rockies ($P_f = 3.8$)



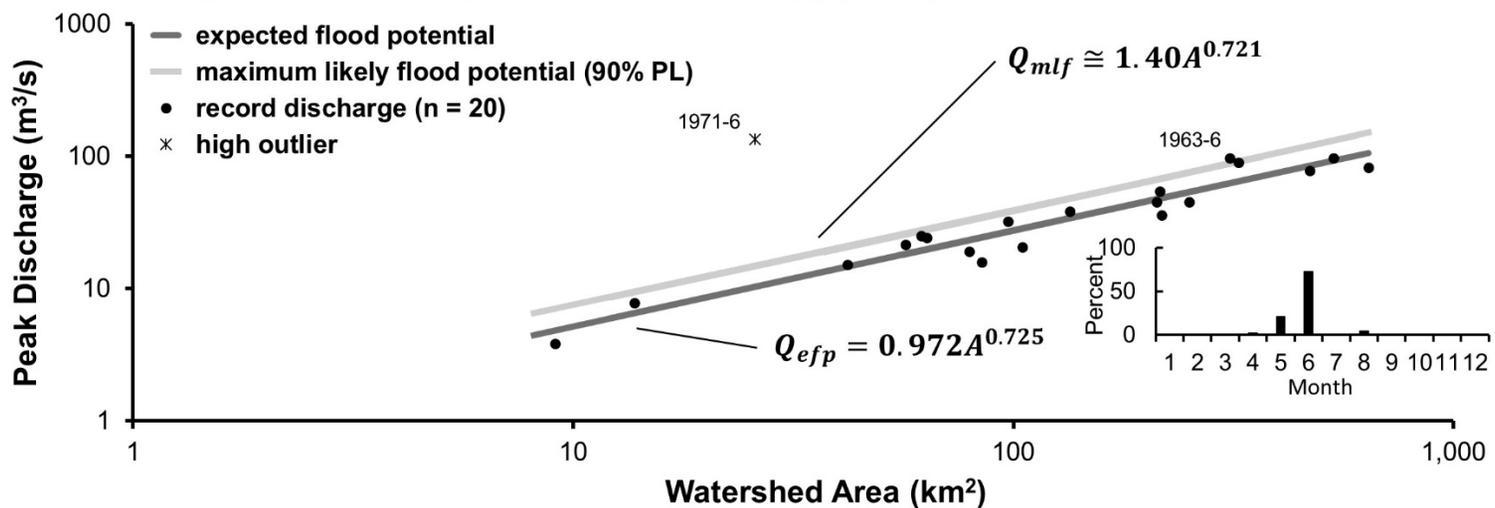
Zone 46S: Central Rockies, South ($P_f = 1.8$)

$R^2 = 0.92$



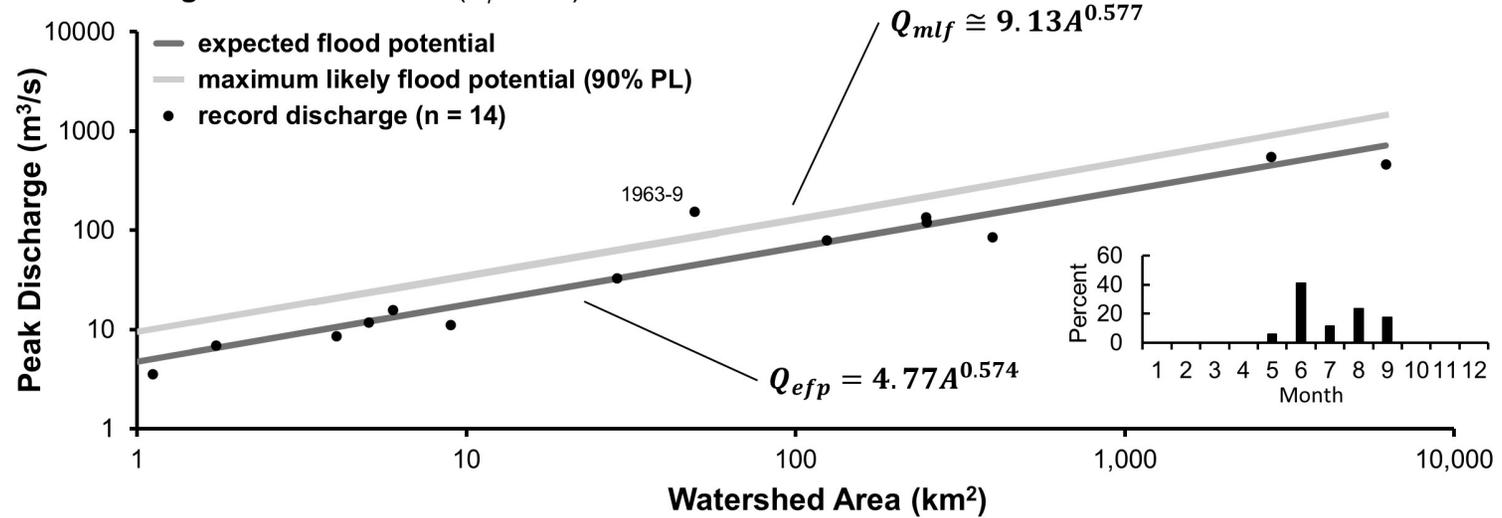
Zone 46E: Bighorn Mountains (Central Rockies, East) ($P_f = 2.2$)

$R^2 = 0.92$



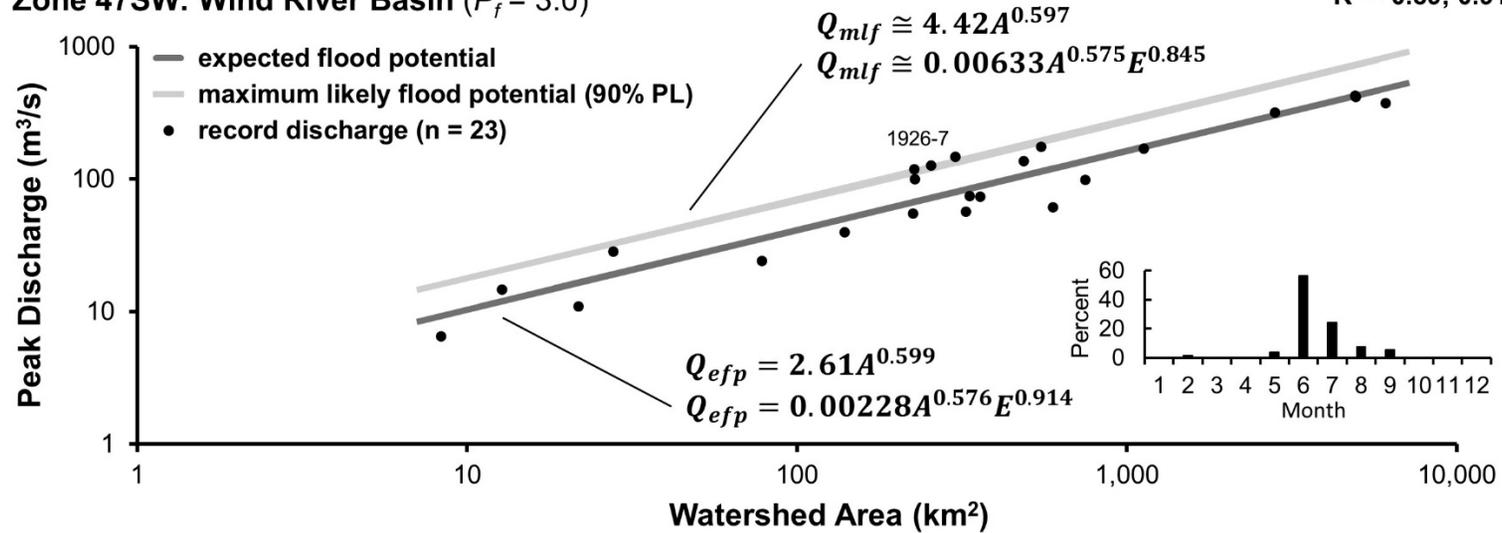
Zone 47: Bighorn River Basin ($P_f = 4.9$)

$R^2 = 0.92$

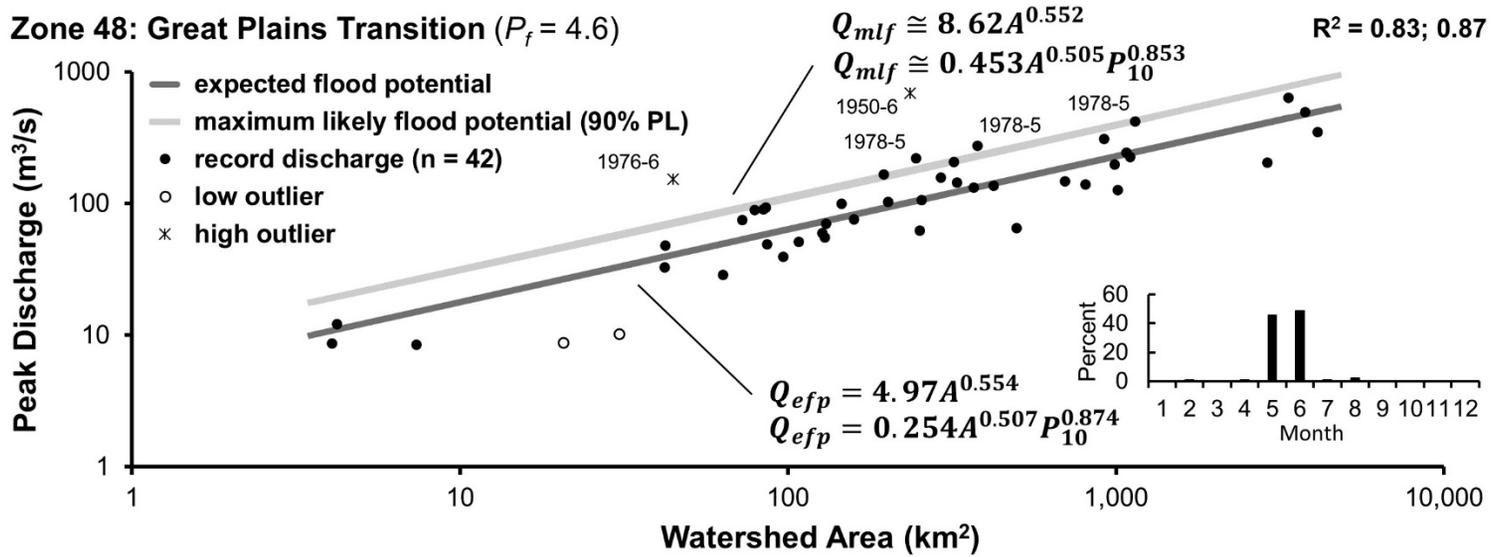


Zone 47SW: Wind River Basin ($P_f = 3.0$)

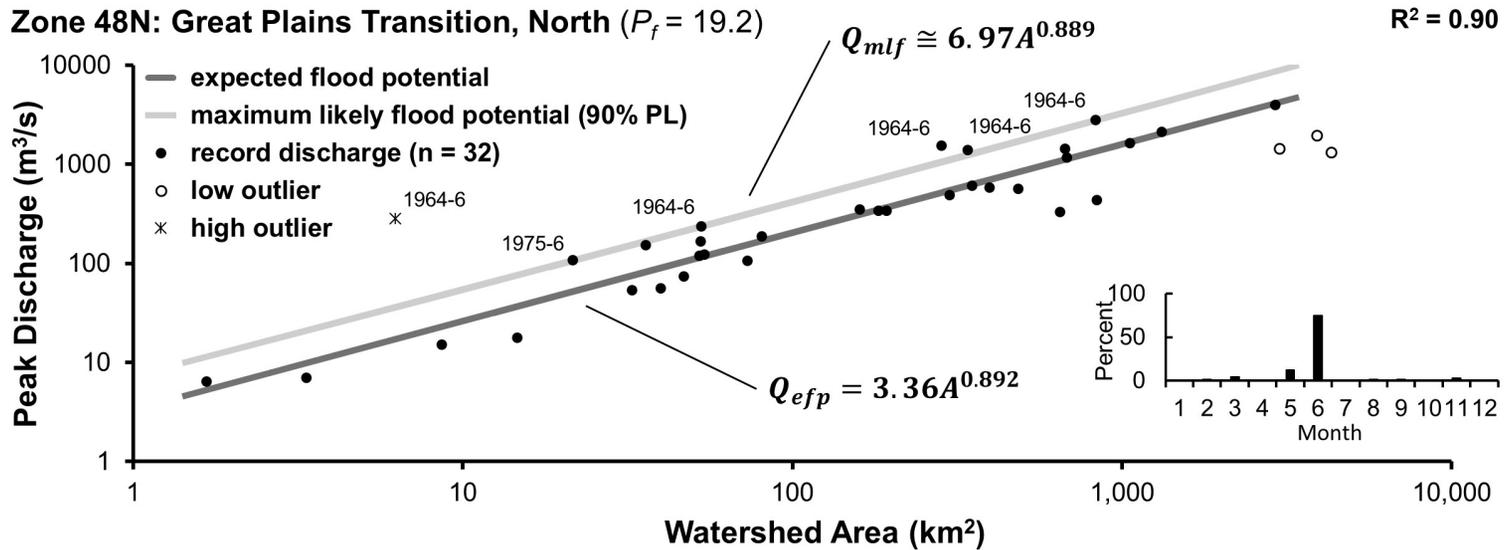
$R^2 = 0.89; 0.91$



Zone 48: Great Plains Transition ($P_f = 4.6$)

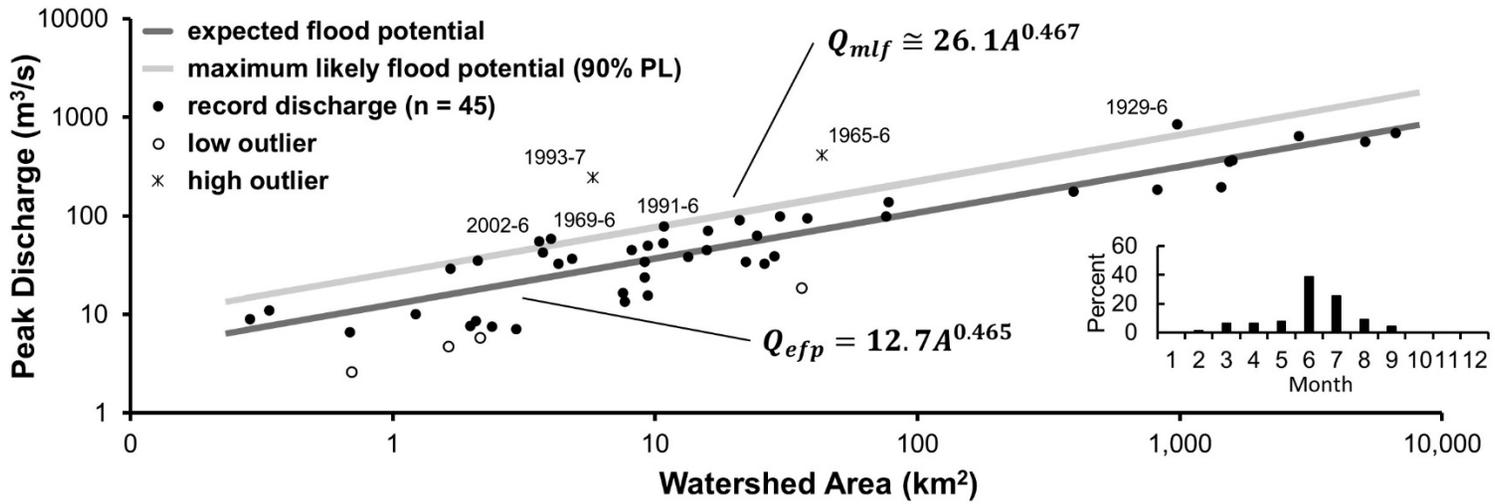


Zone 48N: Great Plains Transition, North ($P_f = 19.2$)



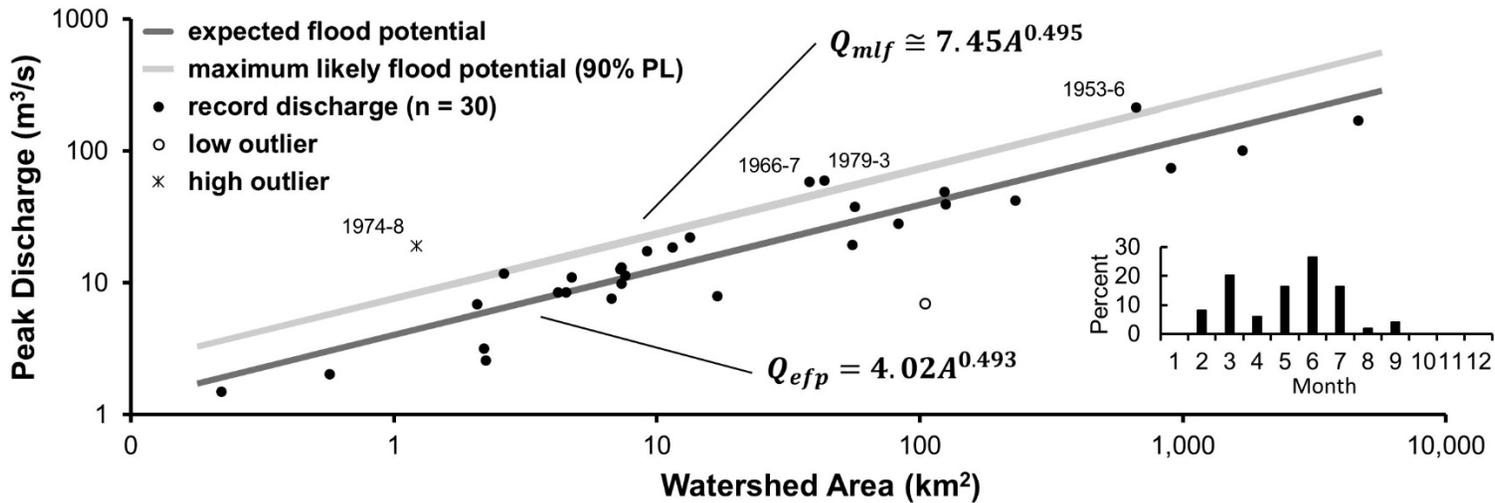
Zone 49: Missouri Plateau ($P_f = 7.8$)

$R^2 = 0.82$

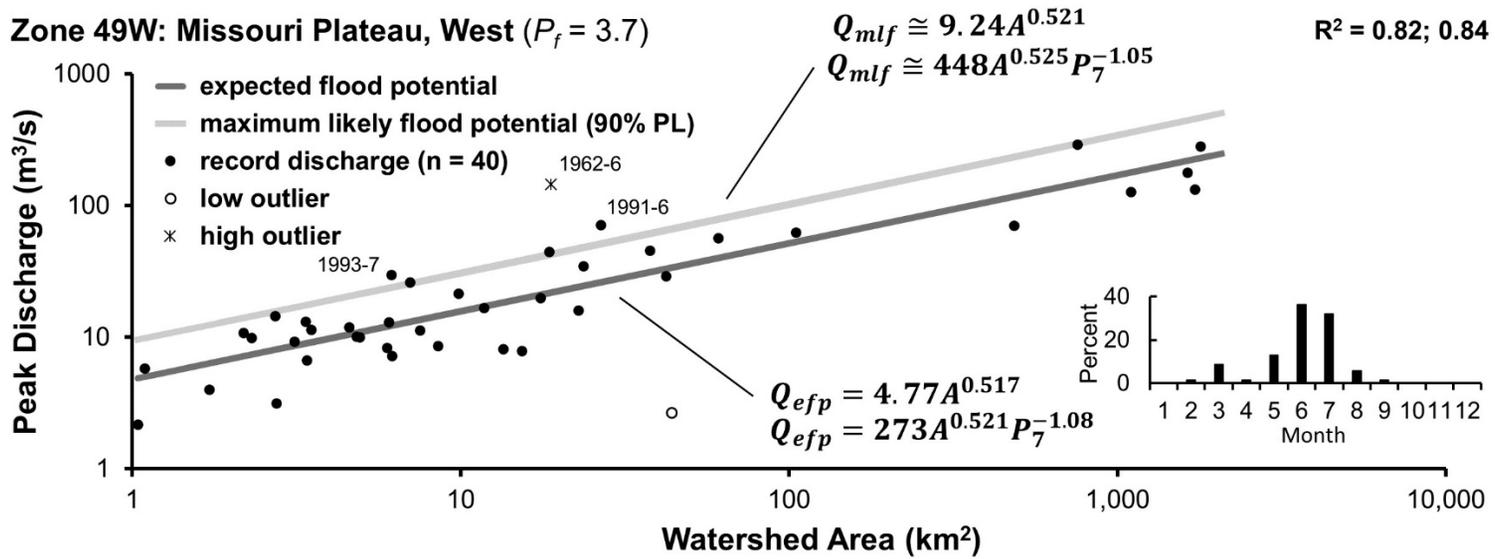


Zone 49NW: Missouri Plateau, Northwest ($P_f = 2.8$)

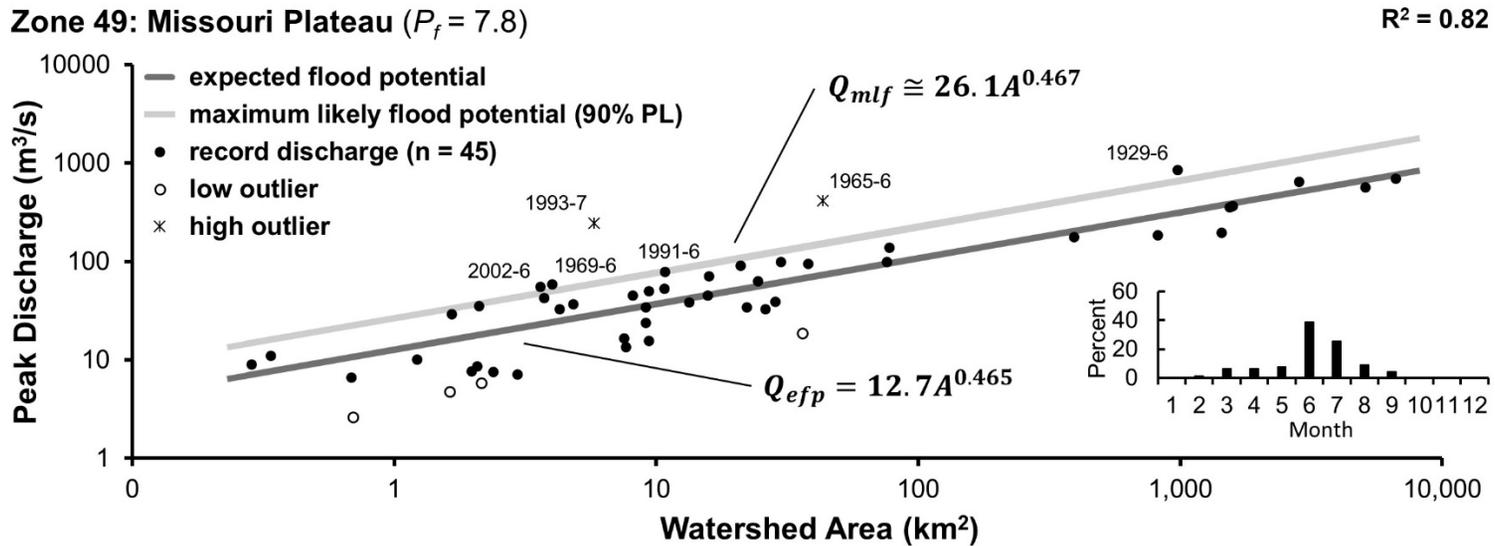
$R^2 = 0.86$



Zone 49W: Missouri Plateau, West ($P_f = 3.7$)

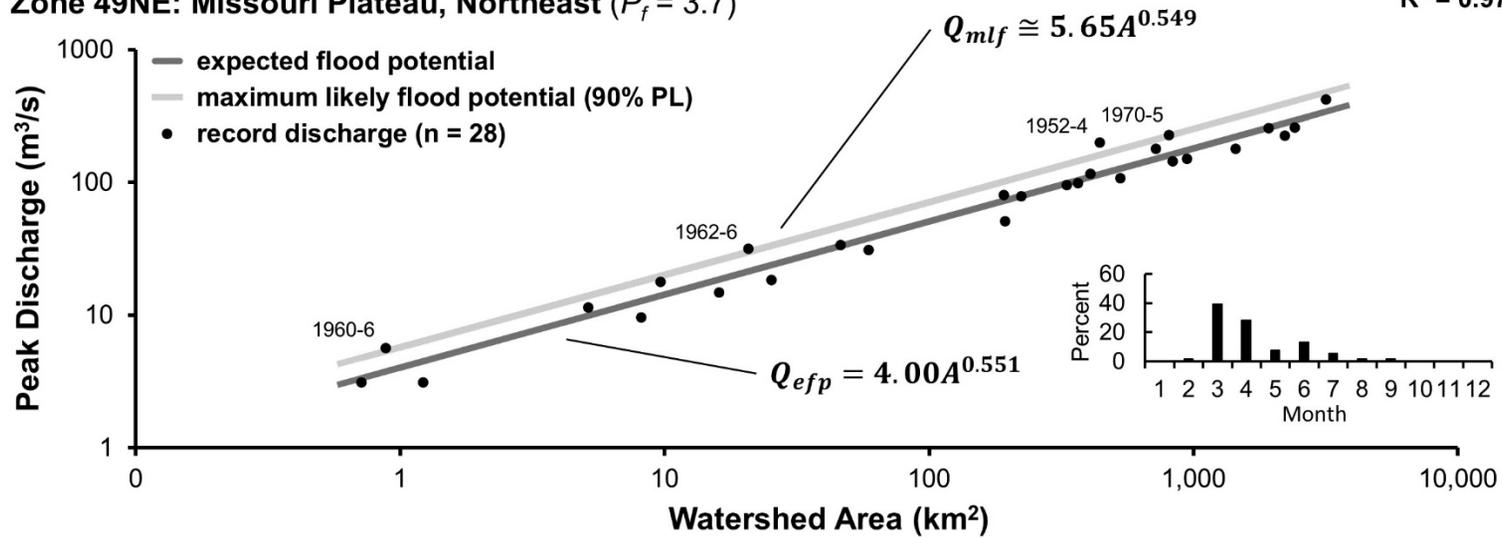


Zone 49: Missouri Plateau ($P_f = 7.8$)



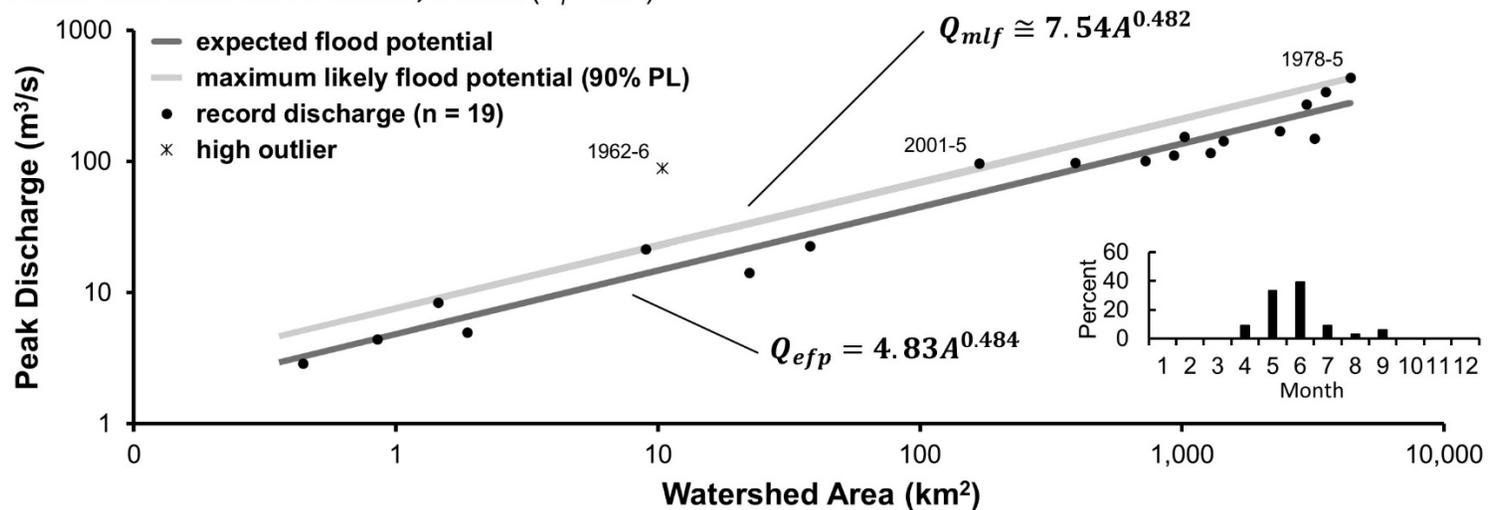
Zone 49NE: Missouri Plateau, Northeast ($P_f = 3.7$)

$R^2 = 0.97$



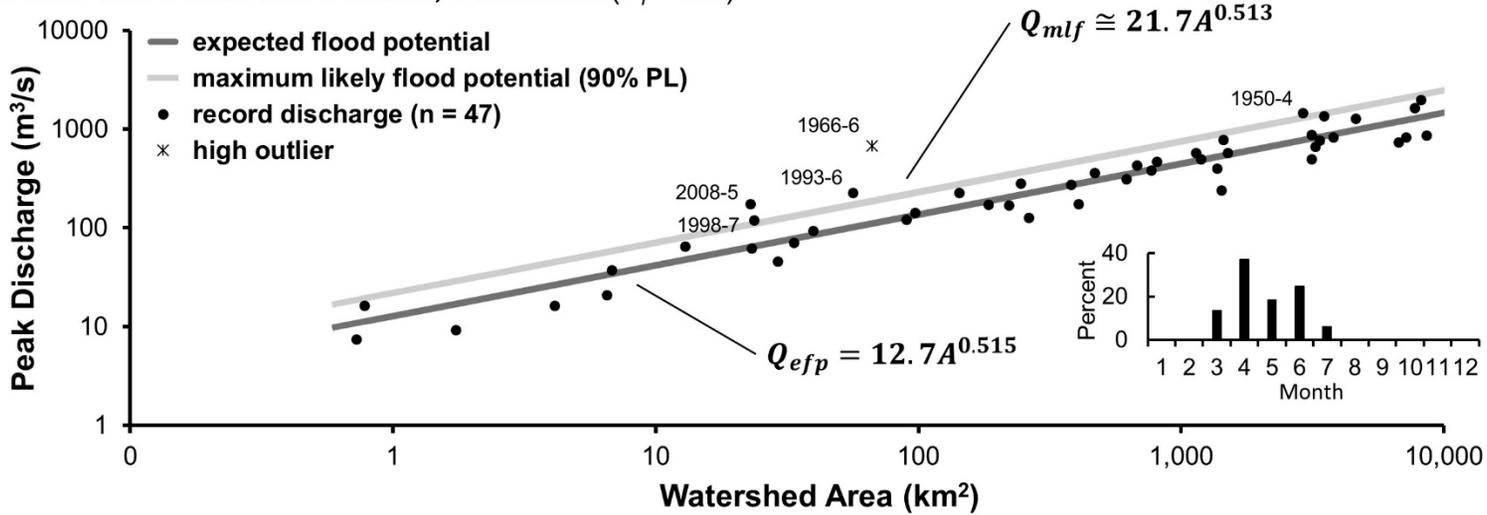
Zone 49S: Missouri Plateau, South ($P_f = 3.2$)

$R^2 = 0.96$



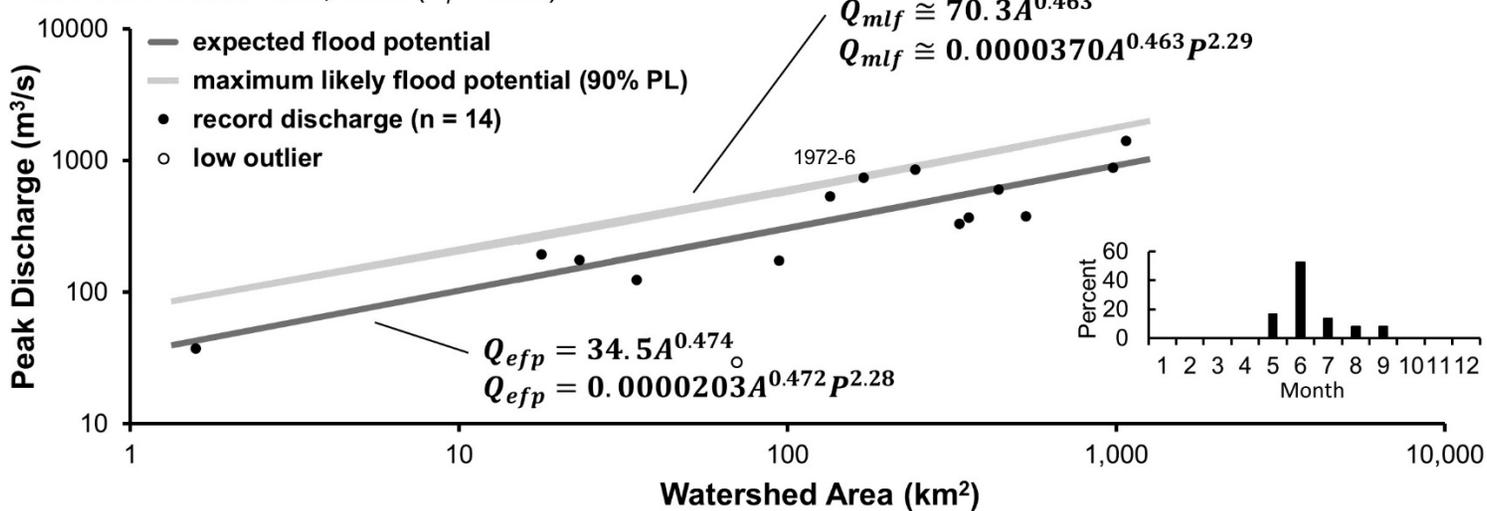
Zone 49SE: Missouri Plateau, Southeast ($P_f = 9.9$)

$R^2 = 0.92$



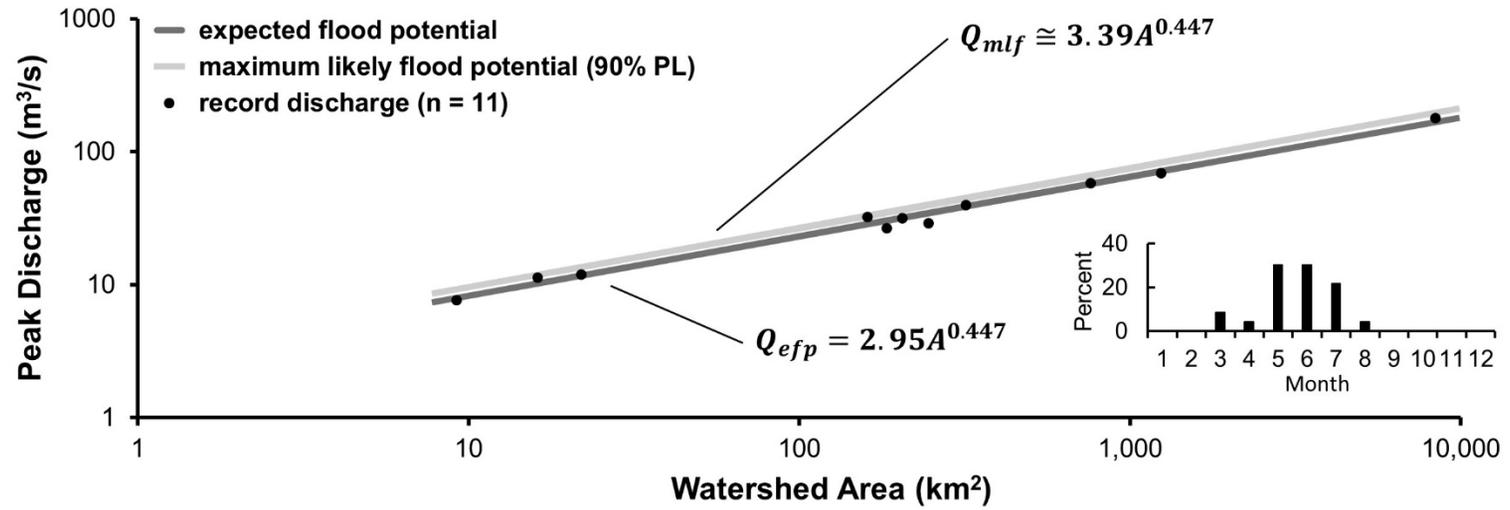
Zone 50E: Black Hills, East ($P_f = 22.2$)

$R^2 = 0.78; 0.84$



Zone 50W: Black Hills, West ($P_f = 1.7$)

$R^2 = 0.99$



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