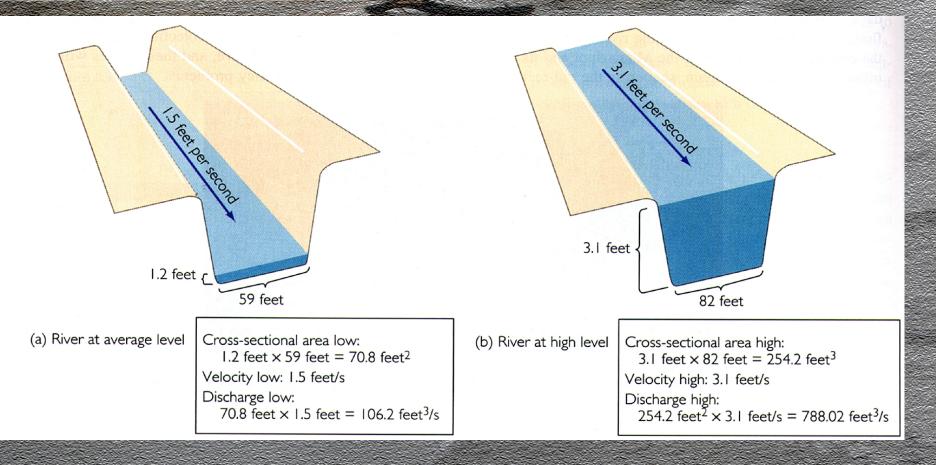


D=v\*h\*w

# Discharge depends on: ♦ flow velocity ♦ channel width ♦ height of flowing water



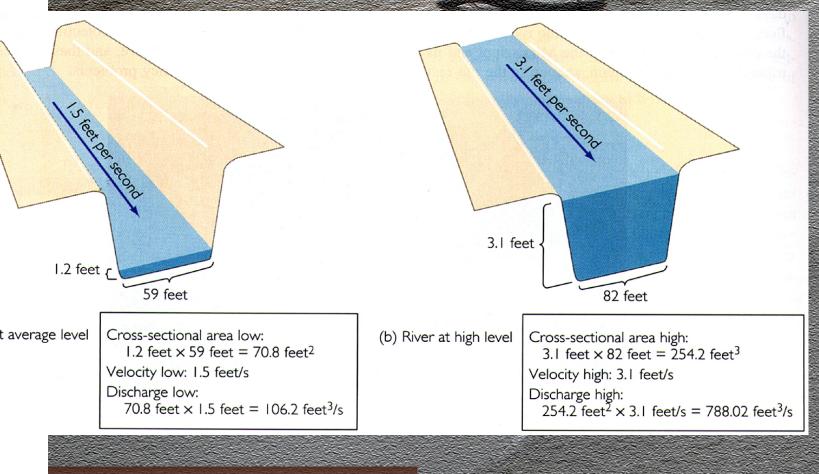
## The Discharge

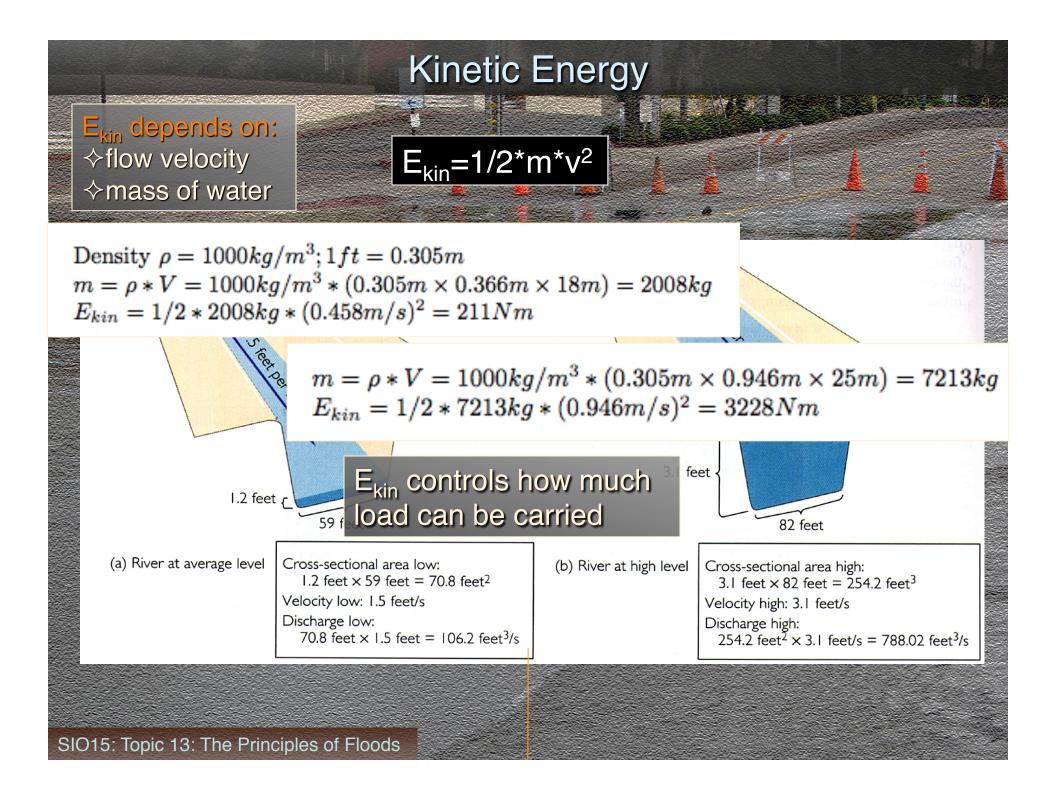
Discharge depends on:
♦ flow velocity
♦ channel width
♦ height of flowing water



DISCHARGE flow velocity\*area

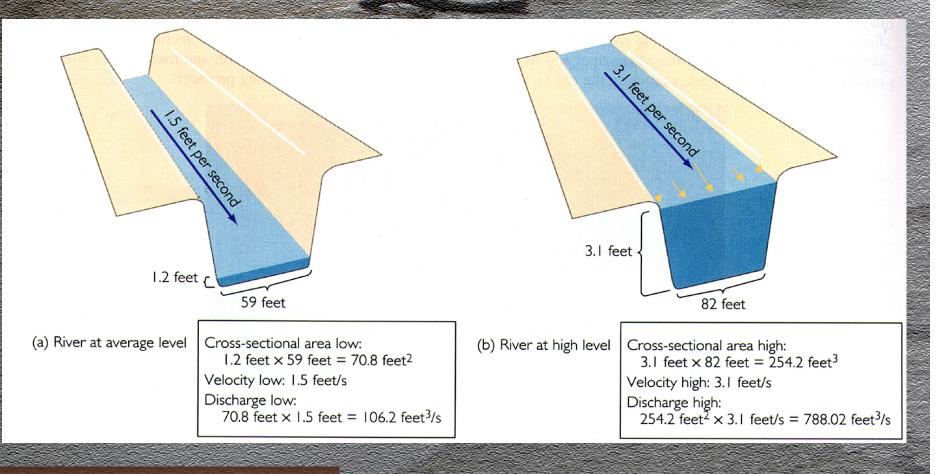
volume/time





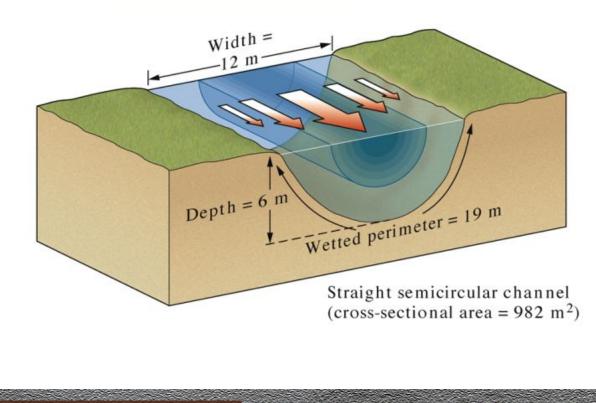
### The Flow Speed

♦ more friction near bottom and sides of channel
-> flow velocities lower!
♦ flow velocities fastest near the top center



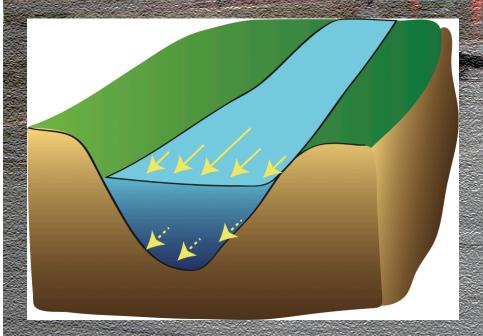
#### More Rounded River Beds

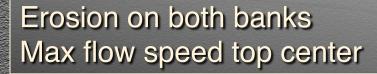
more friction near bottom and sides of channel
 flow velocities lower!
 flow velocities fastest near the top center



## Straight and Bent Rivers

♦ Straight river – symmetric river bed
 ♦ Bent river – asymmetric river bed





Erosion on outer bank Sedimentation on inner bank Max flow speed toward outer bank