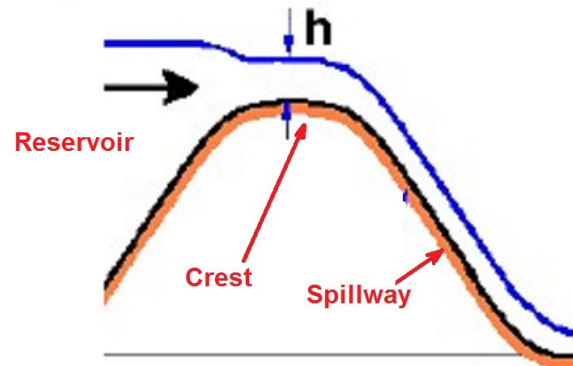


Problem 450B

After a rainstorm, a flood control dam fills to capacity so that a spillway is brought into operation:



An observer estimates that the depth of the water at the crest of the spillway, h , is $0.3m$. If the width of the spillway (normal to the sketch) is $15m$ what is the flowrate of water down the spillway in m^3/s ? Assume $g = 9.8m/s^2$.