

Orifice Equation [a]			
$q = CA(2gH)^{1/2}$			
Orifice Diameter (inches)			12
Orifice Area ft^2)			0.79
Orifice Coeffecient			0.6
Elevation (ft)	Head (ft)	Discharge (cfs)	
5160	0	0.0	
5161	1	3.8	
5162	2	5.3	
5163	3	6.5	
5164	4	7.6	
5164.5	4.5	8.0	
5165	5	8.5	
5165.5	5.5	8.9	
5166	6	9.3	
5167	7	10.0	
5168	8	10.7	
5168.8	8.8	11.2	
5169	9	11.3	
5170	10	12.0	
[a] Handbook of Hydraulics by Brater/King, page 4.28, Eqn 4.10			