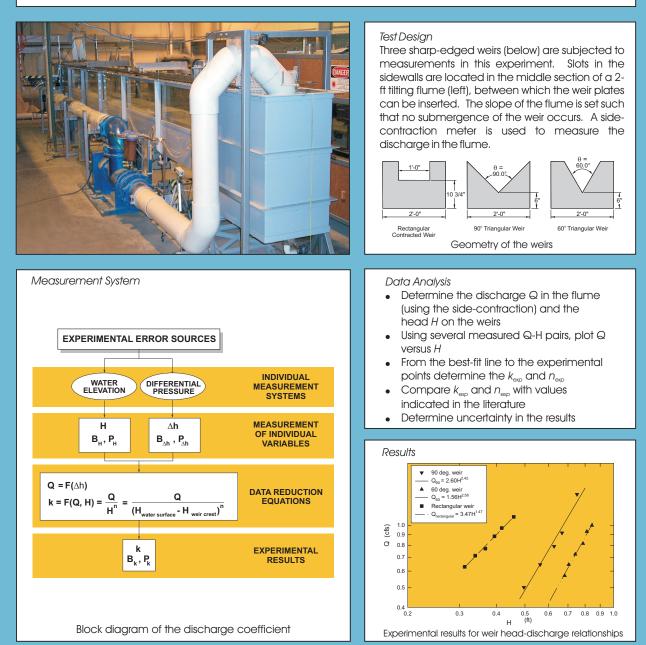
FLUIDS LABORATORY College of Engineering

Weir Calibration

Purpose

To experimentally determine the discharge coefficients for various weir geometry and to compare experimental results with theoretical estimates.



Comparison of experimental results for discharge equation, $Q = kH^2$, with reference data (Gray, 2000)

Weir shape	Discharge coefficient, k		Exponent, <i>n</i>	
	Reference	Experimental	Reference	Experimental
90°	2.49	2.58	2.5	2.42
60°	1.46	1.56	2.5	2.58
Rectangular	3.07	3.47	1.5	1.47