

ABSTRACT

In understanding hydraulic characteristics of open channel flow infested by vegetation, it is necessary to study the characteristics of vegetation that occupies the channel. Hypothetically, different vegetation will result in different characteristics. In this experiment, Japanese grass, Cow grass and Pearl grass were used to understand the relation of their presence towards open channel hydraulic characteristics. Experiments were conducted inside a laboratory flume, with 5-m stretch of each grass laid across the 10-m flume. Upon experiment, cross-sectional discharges, flow depths, retardance coefficients and velocities were assessed to establish relationship between vegetation and hydraulic characteristics.