**Results**

The first set of data that was collected in the running of this experiment was the time it took for dye injected into the water tunnel to travel 0.87 m. This was accomplished through the use of three separate timers, each of which recorded a separate value for said time. An average of these values was then taken and was in turn used to estimate the velocity of the water passing through the water tunnel’s test section, as shown in Equation (1), where V refers to velocity in m/s, d refers to distance, and t refers to time.

(1)

The standard deviation of each velocity measurement was then found, as shown in Equation (2) below, were refers to the average velocity, vi refers to each velocity measurement, and n refers to the number of measurements.

(2)