

## Calculations by Helfenstine...

$$K = 2.66$$

$$\frac{2.52(2.24)}{2.66 \times 1.5} = (V^2)^{0.3} = V^{0.6}$$

$$(1.4147) = V^{0.6}$$

$$V = 4 \text{ mph}$$

Calculate K for 4 mph

$$K = \frac{x}{h} \cdot \frac{1}{\left(\frac{V^2}{gh}\right)^{0.3}}$$

$$K = \frac{2.52}{1.5} \cdot \frac{1.68}{\left(\frac{1.32^2}{9.6 \times 1.5}\right)^{0.3}} = \frac{1.68}{(1.21)^{0.3}} = \underline{\underline{3.16}}$$

for 3 mph

$$K = \frac{1.68}{\left(\frac{1.32^2}{9.6 \times 1.5}\right)^{0.3}} = \underline{\underline{3.16}}$$