F-Test.

$\mu_{hyd} = 192.81$

$\mu_{Mum} = 350$

$\sigma^2_{Hyd} = 1665.48 \qquad \sigma_{Hyd} = 40.8$

$\sigma^2_{Mum} = 709.55 \qquad \sigma_{Mum} = 26.6$

$$F = \frac{Var1}{Var2} = \frac{1665.48}{709.55} = 2.347.$$

$df_1 = 11-1 \Rightarrow 10$

$df_2 = 9-1 \Rightarrow 8$

$\therefore F_{critical}$ with $df_1 = 10$ and $df_2 = 8$ at 0.05 significance.

$\Rightarrow 3.347.$

Since F value is less than $F_{crit}$. Accept the null hypothesis.