

$$\begin{aligned}
 JK(T) &= \sum y_{ij}^2 - C \\
 &= (8.950^2 + 9.000^2 + \dots + 14.250^2) - 1.101.368.888,89 \\
 &= 1.206.725.000 - 1.101.368.888,89 = 105.356.111,11
 \end{aligned}$$

$$\begin{aligned}
 JK(P) &= \frac{1}{6} \sum y_i^2 - C = \frac{1}{6} \times (46.600^2 + 46.750^2 + 47.450^2) - 1.101.368.888,89 \\
 &= 1.101.437.500 - 1.101.368.888,89 = 68.611,11
 \end{aligned}$$

$$JK(g) = JK(T) - JK(P) = 105.356.111,11 - 68.611,11 = 105.287.500$$

$$KT(p) = \frac{JK(P)}{p-1} = \frac{68.611,11}{2} = 34.305,56$$

$$KT(g) = \frac{JK(g)}{(r-1)p} = \frac{105.287.500}{15} = 7.019.166,67$$

$$KK = \frac{\overline{KT(g)}}{y} \times 100\% = \frac{7.019.166,67}{23.466,67} \times 100\% = 11,29\%$$

$$F_{hit} = \frac{KT(p)}{KT(g)} = \frac{34.305,56}{7.019.166,67} = 0,004887411$$

Keterangan:

C : faktor koreksi

JK(T) : jumlah kuadrat total

JK(g) : jumlah kuadrat galat

KT(p) : kuadrat tengah perlakuan

KT(g) : kuadrat tengah galat

KK : koefisien keragaman

F<sub>hit</sub> : F hitung