

Lampiran 2

Tabel 9. Perhitungan fertilitas bobot telur kalkun

N	70,00--74,99 g		75,00--80,00 g	
	(X1)	(X1) ²	(X2)	(X2) ²
	-----%-----			
1	100,00	10000,00	100,00	10000,00
2	100,00	10000,00	100,00	10000,00
3	66,67	4444,44	100,00	10000,00
4	100,00	10000,00	100,00	10000,00
5	100,00	10000,00	66,67	4444,44
6	100,00	10000,00	66,67	4444,44
7	66,67	4444,44	100,00	10000,00
8	100,00	10000,00	66,67	4444,44
9	100,00	10000,00	100,00	10000,00
10	100,00	10000,00	100,00	10000,00
Jumlah	933,33	88888,89	900,00	83333,33
Rata-rata	93,33	8888,89	90,00	8333,33
SD	14,05	2342,43	16,10	2683,59

Keterangan : X1 : Rata-rata fertilitas perlakuan bobot telur 70,00--74,99 g

X2 : Rata-rata fertilitas perlakuan bobot telur 75,00--80,00 g

Perhitungan *t-student* fertilitas telur kalkun dari kelompok perlakuan bobot telur kalkun 70,00--74,99 ,dan 75,00--80,00 g.

$$\begin{aligned}\sum X_1 &= 933,33 \\ \sum (X_1)^2 &= 88888,89 \\ \sum X_2 &= 900,00 \\ \sum (X_2)^2 &= 83333,33\end{aligned}$$

$$\begin{aligned}n_1 &= 10 \\ n_2 &= 10 \\ \bar{X}_1 &= 93,33 \\ \bar{X}_2 &= 90,00\end{aligned}$$

$$SS_1 = \sum I^2 - \frac{(\sum X_1)^2}{n} = 88888,89 - \frac{(933,33)^2}{10} = 1.778,40$$

$$SS_2 = \sum X_i^2 - \frac{(\sum X_2)^2}{n} = 8.3333,33 - \frac{(900,00)^2}{10} = 2.333,33$$

$$S_{X_1-X_2} = \sqrt{\frac{SS_1 + SS_2}{n_1 + n_2 - 2} \left(\frac{1}{n_1} + \frac{1}{n_2} \right)} = \sqrt{\frac{1.778,40 + 2.333,33}{10 + 10} \left(\frac{1}{10} + \frac{1}{10} \right)} = 15,11$$

$$t = \frac{|\bar{x}_1 - \bar{x}_2|}{S_{X_1-X_2}} = \frac{|93,33 - 90,00|}{15,11} = 0,20$$