

LAMPIRAN – LAMPIRAN



Lampiran 01 : Analisis Sidik Ragam Kuantitas Buah
Tomat (*Lycopersicon esculentum* Mill.)

Perlakuan	Ulangan					Jumlah	Rerata
	1	2	3	4	5		
P0	33	31	35	39	38	176	35,2
P1	17	18	19	18	19	91	18,2
P2	23	26	25	23	23	120	24,0
Jumlah						387	77,4

$$FK = \frac{387^2}{5 \times 3} = \frac{149769}{15} = 9984,6$$

$$JKP = \frac{(176^2 + 91^2 + 120^2)}{5} - 9984,6$$

$$= \frac{(30976 + 8281 + 14400)}{5} - 9984,6 = 746,8$$

$$JKT = \frac{(33^2 + 31^2 + \dots + 23^2)}{5} - 9984,6$$

$$= \frac{(1089 + 961 + \dots + 529)}{5} - 9984,6 = 802,4$$

$$JKE = JKT - JKP = 802,4 - 746,8 = 55,6$$

$$KTP = \frac{JKP}{dBP} = \frac{746,8}{2} = 373,4$$

$$KTE = \frac{JKE}{dBE} = \frac{55,6}{12} = 4,633$$

$$F_{hit} = \frac{KTP}{KTE} = \frac{373,4}{4,633} = 80,596$$

ANOVA

Sumber keragaman	dB	JK	KT	F hit	F tabel
					0,05
				**	
Perlakuan	2	746,8	373,4	80,596	3,88
Error	12	55,6	4,633		
Total	14	802,4			

Keterangan : ** = berbeda nyata

UJI LSD

$$\begin{aligned}
 \text{LSD} &= t_{(0,05)} \times \frac{(2 \times \text{KTE})}{(0,05)(12)} \\
 &= 2,179 \times \frac{2 \times 4,633}{5} = 2,966
 \end{aligned}$$

Tabel Uji LSD Antar Perlakuan

	Po: 35,2	P1: 24	P2: 18,2
Po: 35,2	-		
P1: 24	** 11,2	-	
P2: 18,2	** 17	** 5,8	-

Keterangan : ** = menunjukkan hasil yang berbeda nyata

Lampiran 02 : Analisis Sidik Ragam Tebal Buah
Tomat (*Lycopersicon esculentum* Mill.)

Perlakuan	Ulangan					Jumlah	Rerata
	1	2	3	4	5		
P0	0,214	0,229	0,246	0,236	0,213	1,138	0,228
P1	0,494	0,486	0,545	0,497	0,452	2,474	0,495
P2	0,291	0,296	0,294	0,280	0,326	1,487	0,297
Jumlah						5,099	1,020

$$FK = \frac{5,099^2}{5 \times 3} = 1,733$$

$$JKP = \frac{(1,138^2 + 2,474^2 + 1,487^2)}{5} - 1,733$$

$$= \frac{(1,295 + 6,121 + 2,211)}{5} - 1,733 = 0,192$$

$$JKT = \frac{(0,214^2 + 0,229^2 + \dots + 0,326^2)}{5} - 1,733$$

$$= \frac{(0,046 + 0,052 + \dots + 0,106)}{5} - 1,733 = 0,198$$

$$JKE = JKT - JKP = 0,198 - 0,192 = 0,006$$

$$KTP = \frac{JKP}{dBP} = \frac{0,192}{2} = 0,096$$

$$KTE = \frac{JKE}{dBE} = \frac{0,006}{12} = 0,0005$$

$$F_{hit} = \frac{KTP}{KTE} = \frac{0,096}{0,0005} = 192$$

ANOVA

Sumber keragaman	dB	JK	KT	F hit	F tabel
					0,05
				**	
Perlakuan	2	0,192	0,096	192	3,88
Error	12	0,006	0,0005		
Total	14	0,198			

Keterangan : ** = berbeda nyata

UJI LSD

$$\begin{aligned} \text{LSD} &= t_{(0,05)} \times \frac{(2 \times \text{KTE})}{(0,05)(12)} \\ &= 2,179 \times \frac{2 \times 0,0005}{5} = 0,031 \end{aligned}$$

Tabel Uji LSD Antar Perlakuan

	Po: 0,495	P1: 0,297	P2: 0,228
Po: 0,495	-		
P1: 0,297	** 0,198	-	
P2: 0,228	** 0,267	** 0,069	-

Keterangan : ** = menunjukkan hasil yang berbeda nyata

Lampiran 03 : Analisis Sidik Ragam Diameter Buah
Tomat (Lycopersicum esculentum Mill.)

Perlakuan	Ulangan					Jumlah	Rerata
	1	2	3	4	5		
P0	2,602	2,629	2,511	2,373	2,527	12,642	2,528
P1	3,421	3,553	3,516	3,500	3,532	17,522	3,504
P2	2,922	2,989	3,056	3,041	3,050	15,058	3,012
Jumlah						45,222	9,044

$$FK = \frac{45,222^2}{5 \times 3} = 136,335$$

$$JKP = \frac{(12,642^2 + 17,522^2 + 15,058^2)}{5} - 136,335$$

$$= \frac{(159,820 + 307,021 + 226,743)}{5} - 136,335 = 2,382$$

$$JKT = \frac{(2,602^2 + 2,629^2 + \dots + 3,050^2)}{5} - 136,335$$

$$= \frac{(6,770 + 6,912 + \dots + 9,303)}{5} - 136,335 = 2,445$$

$$JKE = JKT - JKP = 2,445 - 2,382 = 0,063$$

$$KTP = \frac{JKP}{dBP} = \frac{2,382}{2} = 1,191$$

$$KTE = \frac{JKE}{dBE} = \frac{0,063}{12} = 0,005$$

$$F_{hit} = \frac{KTP}{KTE} = \frac{1,191}{0,005} = 238,2$$

$$KTE = 0,005$$

ANOVA

Sumber keragaman	dB	JK	KT	F hit	F tabel
					0,05
				**	
Perlakuan	2	2,382	1,191	238,2	3,88
Error	12	0,063	0,005		
Total	14	2,445			

Keterangan : ** = berbeda nyata

UJI LSD

$$\begin{aligned} \text{LSD} &= t_{(0,05)} \times \frac{(2 \times \text{KTE})}{5} \\ &= 2,179 \times \frac{2 \times 0,005}{5} = 0,098 \end{aligned}$$

Tabel Uji LSD Antar Perlakuan

	Po: 3,504	P1: 3,012	P2: 2,528
Po: 3,504	-		
P1: 3,012	0,492**	-	
P2: 2,528	0,976**	0,484**	-

Keterangan : ** = menunjukkan hasil yang berbeda nyata

Lampiran 04 : Analisa Sidik Ragam Berat Basah Buah
Tomat (*Lycopersicum esculentum* Mill.)

Perla- kuan	Ulangan					Jumlah	Rerata
	1	2	3	4	5		
P0	9,874	10,785	10,151	10,149	10,121	51,080	10,216
P1	14,253	14,703	15,103	16,833	15,766	76,668	15,334
P2	13,830	14,060	13,914	13,974	14,159	69,937	13,987
Jumlah						197,685	39,537

$$FK = \frac{197,685^2}{5 \times 3} = 2605,291$$

$$JKP = \frac{(51,080^2 + 76,668^2 + 69,937^2) - 2605,291}{5}$$

$$= \frac{(2609,166 + 5877,982 + 4891,184) - 2605,291}{5}$$

$$= 70,375$$

$$JKT = \frac{(9,874^2 + 10,785^2 + \dots + 14,159^2) - 2605,291}{5}$$

$$= \frac{(97,496 + 116,316 + \dots + 200,477) - 2605,291}{5}$$

$$= 74,961$$

$$JKE = JKT - JKP = 74,961 - 70,374 = 4,587$$

$$KTP = \frac{JKP}{dBP} = \frac{70,375}{2} = 35,188$$

$$KTE = \frac{JKE}{dBE} = \frac{4,587}{12} = 0,382$$

$$F_{hit} = \frac{KTP}{KTE} = \frac{35,188}{0,382} = 92,115$$

$$KTE = 0,382$$

ANOVA

Sumber keragaman	dB	JK	KT	F hit	F tabel
					0,05
				**	
Perlakuan	2	70,375	35,188	92,115	3,88
Error	12	4,587	0,382		
Total	14	74,962			

Keterangan : ** = berbeda nyata

UJI LSD

$$\text{LSD}_{(0,05)} = t_{(0,05)(12)} \times \frac{(2 \times \text{KTE})}{5}$$

$$= 2,179 \times \frac{2 \times 0,382}{5} = 0,852$$

Tabel Uji LSD Antar Perlakuan

	Po: 15,334	P1: 13,987	P2: 10,216
Po:15,334	-		
P1:13,987	** 1,347	-	
P2:10,216	** 5,118	** 3,771	-

Keterangan : ** = menunjukkan hasil yang berbeda nyata

Lampiran 05 : Analisis Sidik Ragam Berat Kering Buah Tomat (*Lycopersicum esculentum* Mill.)

Perla- kuan	Ulangan					Jumlah	Rerata
	1	2	3	4	5		
P0	0,528	0,577	0,565	0,556	0,554	2,780	0,556
F1	1,424	1,519	1,626	1,878	1,716	8,163	1,633
P2	0,863	1,015	1,006	1,009	1,072	4,965	0,993
Jumlah						15,9	3,182

$$FK = \frac{15,9^2}{5 \times 3} = 16,854$$

$$JKP = \frac{(2,78^2 + 8,163^2 + 4,965^2)}{5} - 16,854$$

$$= \frac{(7,728 + 66,635 + 24,651)}{5} - 16,854$$

$$= 2,949$$

$$JKT = (0,528^2 + 0,557^2 + \dots + 1,072^2) - 16,854$$

$$= (0,279 + 0,333 + \dots + 1,149) - 16,854$$

$$= 3,098$$

$$JKE = JKT - JKP = 3,098 - 2,949 = 0,149$$

$$KTP = \frac{JKE}{JKE} = \frac{2,949}{2,949} = 0,149$$

$$dBP = 2$$

$$KTE = \frac{JKE}{KTE} = \frac{0,149}{0,149} = 0,012$$

$$dBE = 12$$

$$F_{hit} = \frac{KTP}{KTE} = \frac{1,475}{0,012} = 122,917$$

$$KTE = 0,012$$

ANOVA

Sumber keragaman	dB	JK	KT	F hit	F tabel
					0,05
Perlakuan	2	2,949	1,475	122,917	3,88
Error	12	0,149	0,012		
Total	14	3,098			

Keterangan : ** = berbeda nyata

UJI LSD

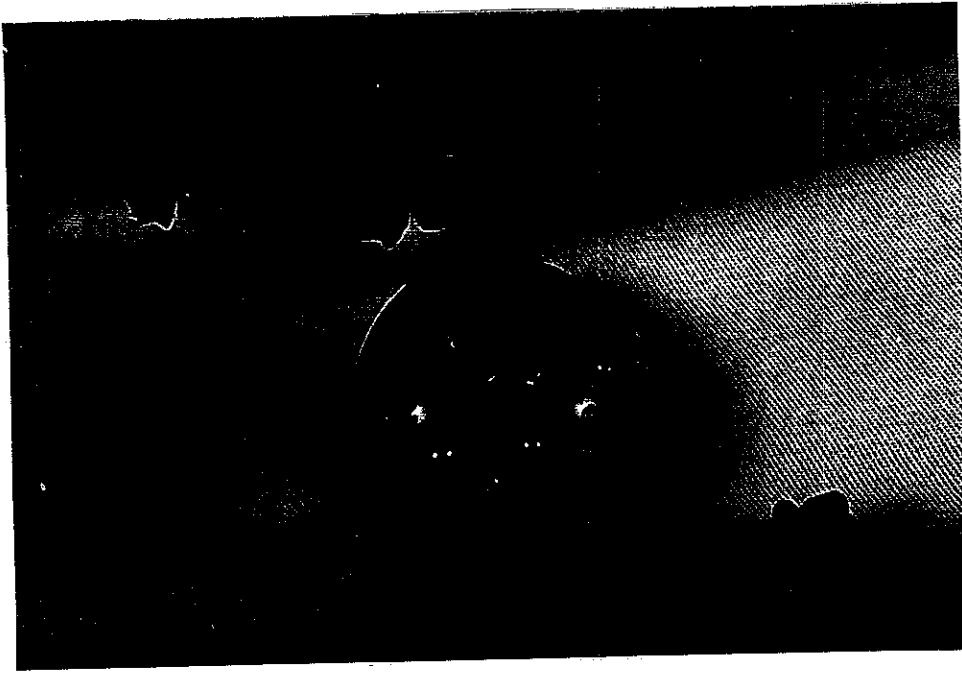
$$\text{LSD}_{(0,05)} = t_{(0,05)(12)} \times \frac{(2 \times \text{KTE})}{5}$$

$$= 2,179 \times \frac{2 \times 0,012}{5} = 0,150$$

Tabel Uji LSD Antar Perlakuan

	Po: 1,633	P1: 0,993	P2: 0,556
Po: 1,633	-		
P1: 0,993	0,64 **	-	
P2: 0,556	1,077 **	0,437 **	-

Keterangan : ** = menunjukkan hasil yang berbeda nyata



Gambar 07. Buah tomat perlakuan kontrol



Gambar 08. Buah tomat perlakuan 2



Gambar 09. Buah tomat perlakuan 1

