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LAMPIRAN

Lampiran 1. Denah lahan penelitian

Ulangan I

P4	P2	P3	P1	P0
P3	P1	P0	P4	P2
P0	P3	P4	P2	P1
P2	P0	P1	P3	P4
P1	P4	P2	P0	P3

Ulangan II

P1	P0	P2	P3	P4
P3	P4	P0	P2	P1
P4	P3	P1	P0	P2
P0	P2	P4	P1	P3
P2	P1	P3	P4	P0

Ulangan III

P4	P3	P0	P1	P2
P2	P4	P1	P3	P0
P1	P0	P2	P4	P3
P3	P2	P4	P0	P1
P0	P1	P3	P2	P4

Ulangan IV

P2	P0	P1	P4	P3
P0	P1	P3	P2	P4
P4	P3	P2	P1	P0
P1	P4	P0	P3	P2
P3	P2	P4	P0	P1

Ulangan V

P1	P3	P2	P0	P4
P2	P1	P0	P4	P3
P3	P0	P4	P2	P1
P0	P4	P1	P3	P2
P4	P2	P3	P1	P0

Keterangan :

P0 : Tanpa fungisida (0%)

P1 : Konsentrasi 10%

P2 : Konsentraasi 20 %

P3 : Konsentrasi 30%

P4 : Konsentrasi 40%

I-V : Ulangan masing-masing perlakuan

Lampiran 2. Rumus pengenceran ekstrak

$$\text{Persentase larutan yang dicari} = \frac{\text{Volume Zat Terlarut}}{\text{Volume Total Larutan}} \times 100\%$$

$$10\% = \frac{\text{ml}}{500} \times 100\%$$

$$\begin{aligned} \text{ml} &= \frac{10 \times 500}{100} \\ &= 50 \text{ ml} \end{aligned}$$

$$20\% = \frac{\text{ml}}{500} \times 100\%$$

$$\begin{aligned} \text{ml} &= \frac{20 \times 500}{100} \\ &= 100 \text{ ml} \end{aligned}$$

$$30\% = \frac{\text{ml}}{500} \times 100\%$$

$$\begin{aligned} \text{ml} &= \frac{30 \times 500}{100} \\ &= 150 \text{ ml} \end{aligned}$$

$$40\% = \frac{\text{ml}}{500} \times 100\%$$

$$\begin{aligned} \text{ml} &= \frac{40 \times 500}{100} \\ &= 200 \text{ ml} \end{aligned}$$

Lampiran 3. Dokumentasi penelitian

1. Pengolahan tanah



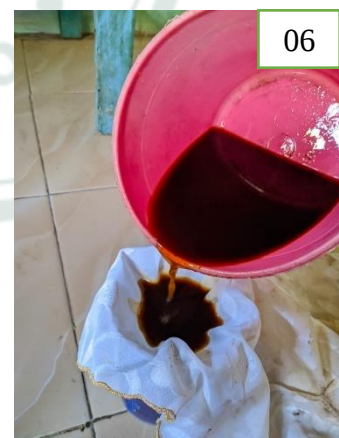
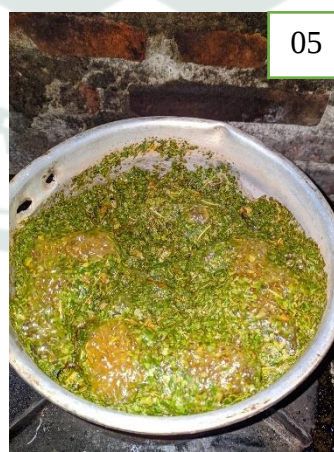
2. Pembibitan



3. Perawatan tanaman



4. Pembuatan ekstrak daun papaya



5. Pengaplikasian ekstrak daun pepaya dan pepaya

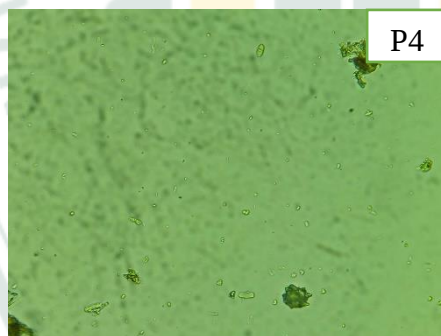
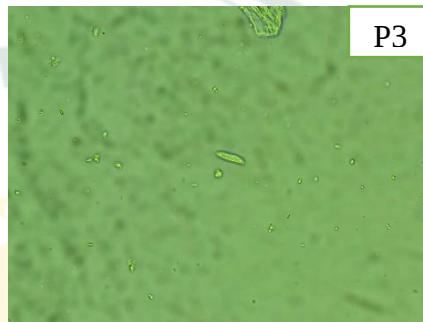
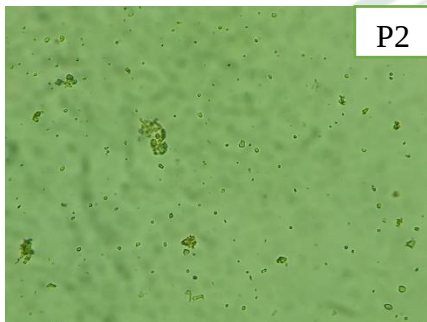
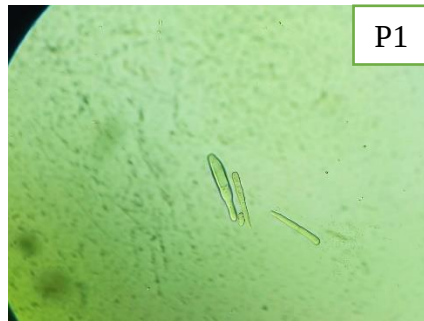
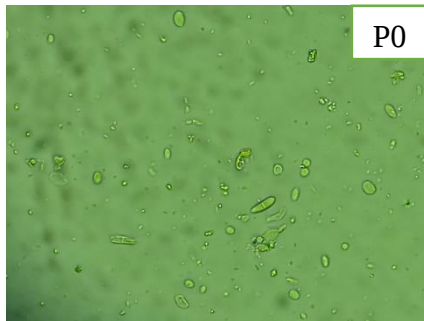


7. Pemanenan dan penimbangan bobot buah cabai

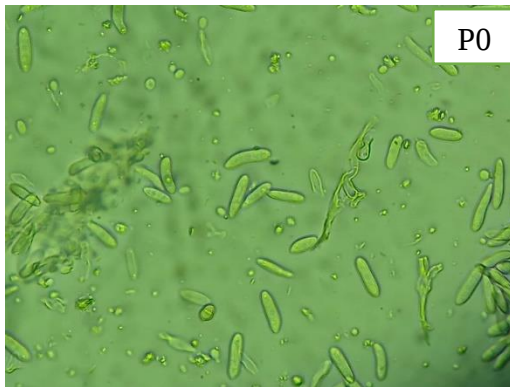


8. Dokumentasi makroskopis *Collectrichum* sp.

A. Konidia *Collectrichum* pada daun



B. Konidia *Collectrichum* pada buah



P0



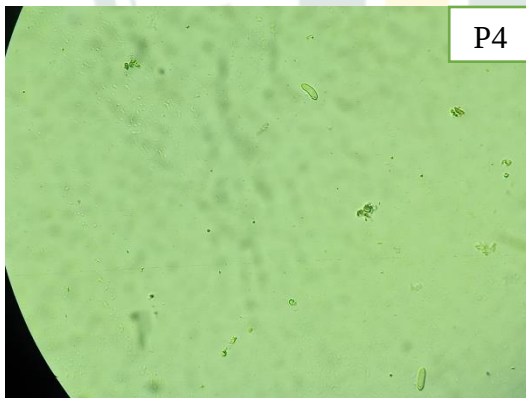
P1



P2



P3



P4



Lampiran 4 hasil perhitungan penelitian

1. intensitas serangan penyakit antraknosa pada daun

ANALYSIS OF VARIANCE VARIABLE: 28 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 0,500000154724476; DF: 16 HSD: 2,16634458727256			
Average of 28 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total				
P0	9	12	11	13	9	10,8	4	0	a	
P1	3	0	0	0	0	0,6	3	0,2	a	
P2	1	0	0	0	0	0,2	5	0,4	a	
P3	0	0	0	0	0	0	2	0,6	a	
P4	2	0	0	0	0	0,4	1	10,8	b	
Grand Total	3	2,4	2,2	2,6	1,8	2,4				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	4	4	1	0,8						
Perlakuan	442	4	110,5	88,4	1,06735E-10 **		0,5	0,70711	1,499	2,0653
Residual	20	16	1,25			46,58475				
Total	466	24	19,41667							

ANALYSIS OF VARIANCE VARIABLE: 35 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 0,608276587700447; DF: 16 HSD: 2,63547257111475			
Average of 35 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total				
P0	15	17	19	20	16	17,4	4	0	a	
P1	7	7	7	6	3	6	5	0	a	
P2	3	0	0	0	0	0,6	3	0,6	a	
P3	0	0	0	0	0	0	2	6	b	
P4	0	0	0	0	0	0	1	17,4	c	
Grand Total	5	4,8	5,2	5,2	3,8	4,8				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	6,8	4	1,7	0,918919						
Perlakuan	1119,6	4	279,9	151,2973	1,7E-12 **		0,60828	0,86023	1,82361	2,51255
Residual	29,6	16	1,85			28,336397				
Total	1156	24	48,16667							

ANALYSIS OF VARIANCE VARIABLE: 42 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 0,715541857979322; DF: 16 HSD: 3,10021950264124			
Average of 42 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total				
P0	22	25	28	26	27	25,6	5	0	a	
P1	12	10	11	11	8	10,4	4	0,4	a	
P2	7	3	5	4	2	4,2	3	4,2	b	
P3	2	0	0	0	0	0,4	2	10,4	c	
P4	0	0	0	0	0	0	1	25,6	d	
Grand Total	8,6	7,6	8,8	8,2	7,4	8,12				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	7,44	4	1,86	0,726562						
Perlakuan	2258,24	4	564,56	220,5312	8,99E-14 **		0,71554	1,01193	2,14519	2,95562
Residual	40,96	16	2,56			19,704433				
Total	2306,64	24	96,11							

ANALYSIS OF VARIANCE
VARIABLE: 49 hst

Average of 49 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	31	32	35	34	33	33
P1	18	17	17	19	17	17,6
P2	9	5	9	8	5	7,2
P3	3	0	0	0	0	0,6
P4	0	0	0	0	0	0
Grand Total	12,2	10,8	12,2	12,2	11	11,68

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	10,24	4	2,56	1,519288						
Perlakuan	3844,24	4	961,06	570,362	4,95E-17 **	11,11366	0,58052	0,82098	1,74039	2,39789
Residual	26,96	16	1,685							
Total	3881,44	24	161,7267							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 0,580516989684626; DF: 16
HSD: 2,51519889852044

5	0 a
4	0,6 a
3	7,2 b
2	17,6 c
1	33 d

ANALYSIS OF VARIANCE
VARIABLE: 56 hst

Average of 56 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	42	40	42	42	38	40,8
P1	25	22	23	24	21	23
P2	15	10	15	13	11	12,8
P3	4	0	0	0	0	0,8
P4	0	0	0	0	0	0
Grand Total	17,2	14,4	16	15,8	14	15,48

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	33,44	4	8,36	5,825784						
Perlakuan	5799,84	4	1449,96	1010,425	5,24128E-19 **	7,7384681	0,53572	0,75763	1,6061	2,21287
Residual	22,96	16	1,435							
Total	5856,24	24	244,01							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 0,535723896416802; DF: 16
HSD: 2,3211244082807

5	0 a
4	0,8 a
3	12,8 b
2	23 c
1	40,8 d

ANALYSIS OF VARIANCE
VARIABLE: 63 hst

Average of 63 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	45	46	50	50	47	47,6
P1	30	27	26	29	27	27,8
P2	19	13	18	18	17	17
P3	6	3	4	4	4	4,2
P4	0	0	0	0	0	0
Grand Total	20	17,8	19,6	20,2	19	19,32

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	18,64	4	4,66	1,856574						
Perlakuan	7394,64	4	1848,66	736,5179	6,49E-18 **	8,2003	0,70852	1,002	2,12414	2,92662
Residual	40,16	16	2,51							
Total	7453,44	24	310,56							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 0,708519580535358; DF: 16
HSD: 3,06979416659421

5	0 a
4	4,2 b
3	17 c
2	27,8 d
1	47,6 e

ANALYSIS OF VARIANCE
VARIABLE: 70 hst

Average of 70 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	59	56	58	55	54	56,4
P1	36	37	32	32	32	33,8
P2	25	18	21	23	22	21,8
P3	11	6	9	7	7	8
P4	1	1	0	0	0	0,4
Grand Total	26,4	23,6	24	23,4	23	24,08

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	36,24	4	9,06	2,913183						
Perlakuan	9817,84	4	2454,46	789,2154	3,75E-18 **	7,3235848	0,78867	1,11535	2,36443	3,25769
Residual	49,76	16	3,11							
Total	9903,84	24	412,66							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 0,788669427076072; DF: 16
HSD: 3,41705843158206

5	0,4 a
4	8 b
3	21,8 c
2	33,8 d
1	56,4 e

2. intensitas serangan penyakit antraknosa pada buah

ANALYSIS OF VARIANCE
VARIABLE: 70 hst

Average of 70 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	10	22	12	13	20	15,4
P1	2	4	3	2	1	2,4
P2	0	0	1	0	0	0,2
P3	0	0	0	0	0	0
P4	0	0	0	0	0	0
Grand Total	2,4	5,2	3,2	3	4,2	3,6

MULTIPLE COMPARISON TEST

Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,0770332292982; DF: 16
HSD: 4,66644876917799

4	0 a
5	0 a
3	0,2 a
2	2,4 a
1	15,4 b

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	24,4	4	6,1	1,051724						
Perlakuan	890,8	4	222,7	38,39655	5,17652E-08 **		1,07703	1,52315	3,22894	4,4488
Residual	92,8	16	5,8			66,897748				
Total	1008	24	42							

ANALYSIS OF VARIANCE
VARIABLE: 77 hst

Average of 77 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	14	31	20	20	26	22,2
P1	7	10	9	7	8	8,2
P2	0	2	2	1	1	1,2
P3	0	0	0	0	0	0
P4	0	0	0	0	0	0
Grand Total	4,2	8,6	6,2	5,6	7	6,32

MULTIPLE COMPARISON TEST

Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,24979992203872; DF: 16
HSD: 5,41499291690064

4	0 a
5	0 a
3	1,2 a
2	8,2 b
1	22,2 c

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	53,44	4	13,36	1,710627						
Perlakuan	1809,04	4	452,26	57,90781	2,57674E-09 **		1,2498	1,76748	3,7469	5,16244
Residual	124,96	16	7,81			44,218951				
Total	1987,44	24	82,81							

ANALYSIS OF VARIANCE
VARIABLE: 84 hst

Average of 84 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	19	34	28	29	32	28,4
P1	11	18	12	13	14	13,6
P2	5	8	6	5	6	6
P3	0	0	0	0	0	0
P4	0	0	0	0	0	0
Grand Total	7	12	9,2	9,4	10,4	9,6

MULTIPLE COMPARISON TEST

Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,12694294723469; DF: 16
HSD: 4,88269199686979

4	0 a
5	0 a
3	6 b
2	13,6 c
1	28,4 d

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	66,8	4	16,7	2,629921						
Perlakuan	2833,6	4	708,4	111,5591	1,7977E-11 **		1,12694	1,59374	3,37857	4,65496
Residual	101,6	16	6,35			26,249173				
Total	3002	24	125,0833							

ANALYSIS OF VARIANCE
VARIABLE: 91 hst

Average of 91 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	25	41,25	35	36	40	35,45
P1	19	24	17	19	20	19,8
P2	10	11	9	10	10	10
P3	0	0	2	0	0	0,4
P4	0	0	0	0	0	0
Grand Total	10,8	15,25	12,6	13	14	13,13

MULTIPLE COMPARISON TEST

Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,32834463618614; DF: 16
HSD: 5,75530264429642

5	0 a
4	0,4 a
3	10 b
2	19,8 c
1	35,45 d

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	54,89	4	13,7225	1,555398						
Perlakuan	4434,59	4	1108,648	125,6614	7,18E-12 **		1,32834	1,87856	3,98238	5,48687
Residual	141,16	16	8,8225			22,622006				
Total	4630,64	24	192,9433							

ANALYSIS OF VARIANCE
VARIABLE: 98 hst

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,63768122553826; DF: 16
HSD: 7,09556152153135

Average of 98 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	31	47	42	44	49	42,6
P1	25	30	21	23	28	25,4
P2	18	18	15	15	13	15,8
P3	0	0	2	0	1	0,6
P4	0	0	0	0	0	0
Grand Total	14,8	19	16	16,4	18,2	16,88

5	0 a
4	0,6 a
3	15,8 b
2	25,4 c
1	42,6 d

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	57,84	4	14,46	1,0783						
Perlakuan	6426,24	4	1606,56	119,8031	1,04E-11	**	1,63768	2,31603	4,90977	6,76462
Residual	214,56	16	13,41			21,694115				
Total	6698,64	24	279,11							

ANALYSIS OF VARIANCE
VARIABLE: 105 hst

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,81659055488696; DF: 16
HSD: 7,87071979615365

Average of 105 hs Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	38	55	50	54	57	50,8
P1	32	37	27	29	34	31,8
P2	23	24	19	21	17	20,8
P3	4	3	4	3	4	3,6
P4	0	0	0	0	0	0
Grand Total	19,4	23,8	20	21,4	22,4	21,4

5	0 a
4	3,6 a
3	20,8 b
2	31,8 c
1	50,8 d

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	63,6	4	15,9	0,963636						
Perlakuan	8738,4	4	2184,6	132,4	4,79442E-12	**	1,81659	2,56905	5,44614	7,50362
Residual	264	16	16,5			18,981398				
Total	9066	24	377,75							

ANALYSIS OF VARIANCE
VARIABLE: 112 hst

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,84336656737015; DF: 16
HSD: 7,98673189967724

Average of 112 hs Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P0	46	64	59	63	66	59,6
P1	39	43	35	34	40	38,2
P2	27	30	24	28	21	26
P3	6	9	7	8	10	8
P4	1	2	0	0	2	1
Grand Total	23,8	29,6	25	26,6	27,8	26,56

5	1 a
4	8 a
3	26 b
2	38,2 c
1	59,6 d

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	104,16	4	26,04	1,532666						
Perlakuan	11126,16	4	2781,54	163,7163	9,22E-13	**	1,84337	2,60691	5,52641	7,61423
Residual	271,84	16	16,99			15,519175				
Total	11502,16	24	479,2567							

3. hasil perhitungan uji audpc daun

(P0)

$$\begin{aligned} & \frac{10,8 + 17,4}{2} \times 7 + \frac{17,4 + 25,6}{2} \times 7 + \frac{25,6 + 33}{2} \times 7 + \frac{33 + 40,8}{2} \times 7 + \frac{40,8 + 47,6}{2} \times 7 + \frac{47,6 + 56}{2} \times 7 \\ &= 98,7 + 150,5 + 205,1 + 258,3 + 309,4 + 364 \\ &= 1,386 \end{aligned}$$

(P1)

$$\begin{aligned} & \frac{0,6 + 6}{2} \times 7 + \frac{60 + 10,4}{2} \times 7 + \frac{10,4 + 17,6}{2} \times 7 + \frac{17,6 + 23}{2} \times 7 + \frac{23 + 27,8}{2} \times 7 + \frac{27,8 + 33,8}{2} \times 7 \\ &= 23,1 + 57,4 + 98 + 142,1 + 117,8 + 215,6 \\ &= 714 \end{aligned}$$

(P2)

$$\begin{aligned} & \frac{0,2 + 0,6}{2} \times 7 + \frac{0,6 + 4,2}{2} \times 7 + \frac{42,2 + 7,2}{2} \times 7 + \frac{7,2 + 12,8}{2} \times 7 + \frac{12,8 + 17}{2} \times 7 + \frac{17 + 21,8}{2} \times 7 \\ &= 2,8 + 16,8 + 39,9 + 70 + 104,3 + 135,8 \\ &= 369,6 \end{aligned}$$

(P3)

$$\begin{aligned} & \frac{0 + 0}{2} \times 7 + \frac{0 + 0,4}{2} \times 7 + \frac{0,4 + 0,6}{2} \times 7 + \frac{0,6 + 0,8}{2} \times 7 + \frac{0,8 + 4,2}{2} \times 7 + \frac{4,2 + 8}{2} \times 7 \\ &= 0 + 1,4 + 3,5 + 4,9 + 17,5 + 42,7 \\ &= 70 \end{aligned}$$

(P4)

$$\begin{aligned} & \frac{0,4 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0,4}{2} \times 7 \\ &= 1,4 + 0 + 0 + 0 + 0 + 1,4 \\ &= 2,8 \end{aligned}$$

4. hasil perhitungan uji audpc buah

(P0)

$$\begin{aligned} & \frac{15,4 + 22,2}{2} \times 7 + \frac{22,2 + 28,4}{2} \times 7 + \frac{28,4 + 35,45}{2} \times 7 + \frac{35,45 + 42,6}{2} \times 7 + \frac{42,6 + 50,8}{2} \times 7 + \frac{50,8 + 59,6}{2} \times 7 \\ & = 113,6 + 177,1 + 223,475 + 273,175 + 326,9 + 286,4 \\ & = 1518,65 > 1518 \end{aligned}$$

(P1)

$$\begin{aligned} & \frac{2,4 + 8,2}{2} \times 7 + \frac{8,2 + 13,6}{2} \times 7 + \frac{13,6 + 19,8}{2} \times 7 + \frac{19,8 + 25,4}{2} \times 7 + \frac{25,4 + 31,8}{2} \times 7 + \frac{31,8 + 38,2}{2} \times 7 \\ & = 37,1 + 75,3 + 116,9 + 158,2 + 200,2 + 245 \\ & = 833,7 \end{aligned}$$

(P2)

$$\begin{aligned} & \frac{0,2 + 1,2}{2} \times 7 + \frac{1,2 + 6}{2} \times 7 + \frac{6 + 10}{2} \times 7 + \frac{10 + 15,8}{2} \times 7 + \frac{15,8 + 20,8}{2} \times 7 + \frac{20,8 + 26}{2} \times 7 \\ & = 4,9 + 25,2 + 56 + 90,3 + 128,1 + 163,8 \\ & = 468,3 \end{aligned}$$

(P3)

$$\begin{aligned} & \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0,4}{2} \times 7 + \frac{0,4 + 0,6}{2} \times 7 + \frac{0,6 + 3,6}{2} \times 7 + \frac{3,6 + 8}{2} \times 7 \\ & = 0 + 0 + 1,4 + 3,5 + 14,7 + 40,6 \\ & = 60,2 \end{aligned}$$

(P4)

$$\begin{aligned} & \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 0}{2} \times 7 + \frac{0 + 1}{2} \times 7 \\ & = 0 + 0 + 0 + 0 + 0 + 3,5 \\ & = 3,5 \end{aligned}$$

7 laju perkembangan penyakit antraknosa daun

Laju (Daun)

P0.

$$\begin{aligned} \Gamma_1 &= \frac{2,3}{7} \log \frac{17,4}{1-17,4} - \log \frac{10,8}{1-10,8} \\ &= 0,32 \log 0,174 - \log 0,108 \\ &= 0,32 \log 0,210 - \log 0,121 \\ &= 0,32 - 0,617 - (-0,917) \\ &= 0,32 - 0,24 \\ &= 0,076 \end{aligned}$$

$$\begin{aligned} \Gamma_2 &= \frac{2,3}{7} \log \frac{25,6}{1-25,6} - \log \frac{17,4}{1-17,4} \\ &= 0,32 \log 0,256 - \log 0,210 \\ &= 0,32 - 0,594 - (-0,677) \\ &= 0,32 - 0,214 \\ &= 0,088 \end{aligned}$$

$$\begin{aligned} \Gamma_3 &= \frac{2,3}{7} \log \frac{32}{1-32} - \log \frac{25,6}{1-25,6} \\ &= 0,32 \log 0,32 - \log 0,256 \\ &= 0,32 \log 0,408 - \log 0,344 \\ &= 0,32 - 0,368 - (-0,463) \\ &= 0,32 - 0,155 \\ &= 0,049 \end{aligned}$$

$$\begin{aligned} \Gamma_4 &= \frac{2,3}{7} \log \frac{40,8}{1-40,8} - \log \frac{32}{1-32} \\ &= 0,32 \log 0,689 - \log 0,408 \\ &= 0,32 - 0,161 - (-0,368) \\ &= 0,32 - 0,147 \\ &= 0,047 \end{aligned}$$

$$\begin{aligned} \Gamma_5 &= \frac{2,3}{7} \log \frac{47,6}{1-47,6} - \log \frac{40,8}{1-40,8} \\ &= 0,32 \log 0,908 - \log 0,689 \\ &= 0,32 - 0,041 - (-0,161) \\ &= 0,32 - 0,12 \\ &= 0,038 \end{aligned}$$

$$\begin{aligned} \Gamma_6 &= \frac{2,3}{7} \log \frac{58,4}{1-58,4} - \log \frac{47,6}{1-47,6} \\ &= 0,32 \log 1,293 - \log 0,908 \\ &= 0,32 - 0,111 - (-0,041) \\ &= 0,32 - 0,152 \\ &= 0,048 \end{aligned}$$

P1.

$$\begin{aligned} \Gamma_1 &= \frac{2,3}{7} \log \frac{0}{1-0} - \log \frac{0,6}{1-0,6} \\ &= 0,32 \log 0,006 - \log 0,006 \\ &= 0,32 (-2,221) - (-2,221) \\ &= 0,32 - 1,021 \\ &= 0,326 \end{aligned}$$

$$\begin{aligned} \Gamma_2 &= \frac{2,3}{7} \log \frac{10,4}{1-10,4} - \log \frac{0}{1-0} \\ &= 0,32 \log 0,116 - \log 0,006 \\ &= 0,32 - 0,935 - (-2,221) \\ &= 0,32 - 0,265 \\ &= 0,084 \end{aligned}$$

$$\begin{aligned} \Gamma_3 &= \frac{2,3}{7} \log \frac{17,6}{1-17,6} - \log \frac{10,4}{1-10,4} \\ &= 0,32 \log 0,23 - \log 0,116 \\ &= 0,32 \log (0,671) - (-0,935) \\ &= 0,35 - 0,204 \\ &= 0,084 \end{aligned}$$

$$\begin{aligned} \Gamma_4 &= \frac{2,3}{7} \log \frac{23}{1-23} - \log \frac{17,6}{1-17,6} \\ &= 0,32 \log 0,298 - \log 0,23 \\ &= 0,32 - 0,525 - (-0,671) \\ &= 0,32 - 0,144 \\ &= 0,046 \end{aligned}$$

$$\begin{aligned} \Gamma_5 &= \frac{2,3}{7} \log \frac{27,8}{1-27,8} - \log \frac{23}{1-23} \\ &= 0,32 \log 0,385 - \log 0,298 \\ &= 0,32 - 0,414 - (-0,525) \\ &= 0,32 - 0,111 \\ &= 0,035 \end{aligned}$$

$$\begin{aligned} \Gamma_6 &= \frac{2,3}{7} \log \frac{32,8}{1-32,8} - \log \frac{27,8}{1-27,8} \\ &= 0,32 \log 0,510 - \log 0,385 \\ &= 0,32 - 0,292 - (-0,414) \\ &= 0,32 - 0,122 \\ &= 0,039 \end{aligned}$$

P2.

$$\begin{aligned} \Gamma_1 &= \frac{2,3}{7} \log \frac{0,6}{1-0,6} - \log \frac{0,2}{1-0,2} \\ &= 0,32 \log 0,006 - \log 0,002 \\ &= 0,32 (-2,221) - (-2,698) \\ &= 0,32 - 0,477 \\ &= 0,152 \end{aligned}$$

$$\begin{aligned} \Gamma_2 &= \frac{2,3}{7} \log \frac{4,2}{1-4,2} - \log \frac{0,6}{1-0,6} \\ &= 0,32 \log 0,45 - \log 0,006 \\ &= 0,32 - 1,766 - (-2,221) \\ &= 0,32 - 0,273 \\ &= 0,273 \end{aligned}$$

$$\begin{aligned} \Gamma_3 &= \frac{2,3}{7} \log \frac{7,2}{1-7,2} - \log \frac{4,2}{1-4,2} \\ &= 0,32 \log 0,24 - \log 0,45 \\ &= 0,32 - 1,113 - (-1,766) \\ &= 0,32 - 0,253 \\ &= 0,080 \end{aligned}$$

$$\begin{aligned} \Gamma_4 &= \frac{2,3}{7} \log \frac{12,8}{1-12,8} - \log \frac{7,2}{1-7,2} \\ &= 0,32 \log 0,146 - \log 0,24 \\ &= 0,32 - 0,835 - (-1,113) \\ &= 0,32 - 0,270 \\ &= 0,088 \end{aligned}$$

$$\begin{aligned} \Gamma_5 &= \frac{2,3}{7} \log \frac{17}{1-17} - \log \frac{12,8}{1-12,8} \\ &= 0,32 \log 0,204 - \log 0,146 \\ &= 0,32 - 0,690 - (-0,835) \\ &= 0,32 - 0,145 \\ &= 0,046 \end{aligned}$$

$$\begin{aligned} \Gamma_6 &= \frac{2,3}{7} \log \frac{21,8}{1-21,8} - \log \frac{17}{1-17} \\ &= 0,32 \log 0,278 - \log 0,204 \\ &= 0,32 - 0,555 - (-0,690) \\ &= 0,32 - 0,135 \\ &= 0,043 \end{aligned}$$

P_3

$$\begin{aligned} \Gamma_1 &= \frac{2.3}{7} \log \frac{0}{0} - \log \frac{0}{0} \\ &= 0 \\ \Gamma_2 &= \frac{2.3}{7} \log \frac{0.4}{1.04} - \log \frac{0}{0} \\ &= 0.32 \log 0.004 - \log 0 \\ &= 0.32 (-2.397) - 0 \\ &= -0.732 - 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} \Gamma_3 &= \frac{2.3}{7} \log \frac{0.6}{1.04} - \log \frac{0.4}{1.04} \\ &= 0.32 \log 0.006 - \log 0.004 \\ &= 0.32 (-2.211) - (-2.397) \\ &= 0.32 \cdot 0.176 \\ &= 0.056 \\ \Gamma_4 &= \frac{2.3}{7} \log \frac{0.8}{1.08} - \log \frac{0.6}{1.04} \\ &= 0.32 \log 0.008 - \log 0.006 \\ &= 0.32 (-2.096) - (-2.221) \\ &= 0.32 \cdot 0.125 \\ &= 0.04 \end{aligned}$$

$$\begin{aligned} \Gamma_5 &= \frac{2.3}{7} \log \frac{1.0}{1.12} - \log \frac{0.8}{1.08} \\ &= 0.32 \log 0.045 - \log 0.008 \\ &= 0.32 (-1.346) - (-2.096) \\ &= 0.32 \cdot 0.73 \\ &= 0.233 \\ \Gamma_6 &= \frac{2.3}{7} \log \frac{1.2}{1.0} - \log \frac{1.0}{1.08} \\ &= 0.32 \log 0.08 - \log 0.047 \\ &= 0.32 (-1.065) - (-1.326) \\ &= 0.32 \cdot 0.261 \\ &= 0.086 \end{aligned}$$

P_4

$$\begin{aligned} \Gamma_1 &= \frac{2.3}{7} \log \frac{0}{0} - \log \frac{0.4}{1.04} \\ &= 0.32 \log 0 - \log 0.004 \\ &= 0.32 \cdot 0 - (-2.397) \\ &= 0.32 \cdot 0 \\ &= 0 \\ \Gamma_2 &= \frac{2.3}{7} \log \frac{0}{0} - \log \frac{0}{0} \\ &= 0 \\ \Gamma_3 &= \frac{2.3}{7} \log \frac{0.4}{1.04} - \log \frac{0}{0} \\ &= 0.32 \log 0.004 - \log 0 \\ &= 0.32 (-2.397) - 0 \\ &= 0.32 \cdot 0 \\ &= 0 \end{aligned}$$

$$\begin{aligned} \Gamma_4 &= \frac{2.3}{7} \log \frac{0.6}{1.04} - \log \frac{0.4}{1.04} \\ &= 0.32 \log 0.006 - \log 0.004 \\ &= 0.32 (-2.211) - (-2.397) \\ &= 0.32 \cdot 0.176 \\ &= 0.056 \\ \Gamma_5 &= \frac{2.3}{7} \log \frac{0.8}{1.08} - \log \frac{0.6}{1.04} \\ &= 0.32 \log 0.008 - \log 0.006 \\ &= 0.32 (-2.096) - (-2.221) \\ &= 0.32 \cdot 0.125 \\ &= 0.04 \end{aligned}$$

8 Laju perkembangan penyakit antraknosa pada buah

(gula buah)

P_0

$$\begin{aligned} \Gamma_1 &= \frac{2.3}{7} \log \frac{2.2}{1.22} - \log \frac{1.5}{1.15} \\ &= 0.32 \log 0.185 - \log 0.135 \\ &= 0.32 (-0.732) - (-0.869) \\ &= 0.32 \cdot 0.137 \\ &= 0.044 \\ \Gamma_2 &= \frac{2.3}{7} \log \frac{2.4}{1.28} - \log \frac{2.2}{1.22} \\ &= 0.32 \log 0.1875 - \log 0.185 \\ &= 0.32 (-0.728) - (-0.732) \\ &= 0.32 \cdot 0.004 \\ &= 0.001 \\ \Gamma_3 &= \frac{2.3}{7} \log \frac{2.6}{1.35} - \log \frac{2.4}{1.28} \\ &= 0.32 \log 0.192 - \log 0.1875 \\ &= 0.32 (-0.716) - (-0.728) \\ &= 0.32 \cdot 0.012 \\ &= 0.004 \\ \Gamma_4 &= \frac{2.3}{7} \log \frac{2.8}{1.42} - \log \frac{2.6}{1.35} \\ &= 0.32 \log 0.197 - \log 0.192 \\ &= 0.32 (-0.706) - (-0.716) \\ &= 0.32 \cdot 0.01 \\ &= 0.003 \\ \Gamma_5 &= \frac{2.3}{7} \log \frac{3.0}{1.5} - \log \frac{2.8}{1.42} \\ &= 0.32 \log 0.2 - \log 0.197 \\ &= 0.32 (-0.699) - (-0.706) \\ &= 0.32 \cdot 0.007 \\ &= 0.002 \\ \Gamma_6 &= \frac{2.3}{7} \log \frac{3.2}{1.58} - \log \frac{3.0}{1.5} \\ &= 0.32 \log 0.202 - \log 0.2 \\ &= 0.32 (-0.694) - (-0.699) \\ &= 0.32 \cdot 0.005 \\ &= 0.001 \end{aligned}$$

P_1

$$\begin{aligned} \Gamma_1 &= \frac{2.3}{7} \log \frac{2.2}{1.22} - \log \frac{1.5}{1.15} \\ &= 0.32 \log 0.185 - \log 0.135 \\ &= 0.32 (-0.732) - (-0.869) \\ &= 0.32 \cdot 0.137 \\ &= 0.044 \\ \Gamma_2 &= \frac{2.3}{7} \log \frac{2.4}{1.28} - \log \frac{2.2}{1.22} \\ &= 0.32 \log 0.1875 - \log 0.185 \\ &= 0.32 (-0.728) - (-0.732) \\ &= 0.32 \cdot 0.004 \\ &= 0.001 \\ \Gamma_3 &= \frac{2.3}{7} \log \frac{2.6}{1.35} - \log \frac{2.4}{1.28} \\ &= 0.32 \log 0.192 - \log 0.1875 \\ &= 0.32 (-0.716) - (-0.728) \\ &= 0.32 \cdot 0.012 \\ &= 0.004 \\ \Gamma_4 &= \frac{2.3}{7} \log \frac{2.8}{1.42} - \log \frac{2.6}{1.35} \\ &= 0.32 \log 0.197 - \log 0.192 \\ &= 0.32 (-0.706) - (-0.716) \\ &= 0.32 \cdot 0.01 \\ &= 0.003 \\ \Gamma_5 &= \frac{2.3}{7} \log \frac{3.0}{1.5} - \log \frac{2.8}{1.42} \\ &= 0.32 \log 0.2 - \log 0.197 \\ &= 0.32 (-0.699) - (-0.706) \\ &= 0.32 \cdot 0.007 \\ &= 0.002 \\ \Gamma_6 &= \frac{2.3}{7} \log \frac{3.2}{1.58} - \log \frac{3.0}{1.5} \\ &= 0.32 \log 0.202 - \log 0.2 \\ &= 0.32 (-0.694) - (-0.699) \\ &= 0.32 \cdot 0.005 \\ &= 0.001 \end{aligned}$$

P₂

$$\Gamma_1 = \frac{2,3}{7} \log \frac{1,2}{1-1,2} - \log \frac{0,1}{1-0,1}$$

$$= 0,32 \log 0,012 - \log 0,002$$

$$= 0,32 \log (-1,920) - (-2,698)$$

$$= 0,32 \cdot 0,778$$

$$= 0,248$$

$$\Gamma_2 = \frac{2,3}{7} \log \frac{6}{1-6} - \log \frac{1,2}{1-1,2}$$

$$= 0,32 \log 0,063 - \log 0,012$$

$$= 0,32 (-1,200) - (-1,920)$$

$$= 0,32 \cdot 0,72$$

$$= 0,230$$

$$\Gamma_3 = \frac{2,3}{7} \log \frac{10}{1-10} - \log \frac{6}{1-6}$$

$$= 0,32 \log 0,111 - \log 0,063$$

$$= 0,32 (-0,954) - (-1,200)$$

$$= 0,32 \cdot 0,246$$

$$= 0,078$$

$$\Gamma_4 = \frac{2,3}{7} \log \frac{15,8}{1-15,8} - \log \frac{10}{1-10}$$

$$= 0,32 \log 0,187 - \log 0,111$$

$$= 0,32 (-0,728) - (-0,954)$$

$$= 0,32 \cdot 0,226$$

$$= 0,072$$

$$\Gamma_5 = \frac{2,3}{7} \log \frac{20,0}{1-20,0} - \log \frac{15,8}{1-15,8}$$

$$= 0,32 \log 0,782 - \log 0,187$$

$$= 0,32 (-0,581) - (-0,728)$$

$$= 0,32 \cdot 0,147$$

$$= 0,047$$

$$\Gamma_6 = \frac{2,3}{7} \log \frac{26}{1-26} - \log \frac{20,0}{1-20,0}$$

$$= 0,32 \log 0,381 - \log 0,782$$

$$= 0,32 (-0,454) - (-0,581)$$

$$= 0,32 \cdot 0,127$$

$$= 0,040$$

P₃

$$\Gamma_1 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_2 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_3 = \frac{2,3}{7} \log \frac{0,4}{1-0,4} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_4 = \frac{2,3}{7} \log \frac{0,6}{1-0,6} - \log \frac{0,4}{1-0,4}$$

$$= 0,32 \log 0,006 - \log 0,004$$

$$= 0,32 (-2,221) - (-2,397)$$

$$= 0,32 \cdot 0,176$$

$$= 0,056$$

$$\Gamma_5 = \frac{2,3}{7} \log \frac{3,6}{1-3,6} - \log \frac{0,6}{1-0,6}$$

$$= 0,32 \log 0,037 - \log 0,006$$

$$= 0,32 (-1,431) - (-2,221)$$

$$= 0,32 \cdot 0,79$$

$$= 0,252$$

$$\Gamma_6 = \frac{2,3}{7} \log \frac{0}{1-0} - \log \frac{3,6}{1-3,6}$$

$$= 0,32 \log 0,006 - \log 0,037$$

$$= 0,32 (-1,065) - (-1,431)$$

$$= 0,32 \cdot 0,366$$

$$= 0,117$$

P₄

$$\Gamma_1 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_2 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_3 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_4 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_5 = \frac{2,3}{7} \log \frac{0}{0} - \log \frac{0}{0}$$

$$= 0,32 \log 0$$

$$= 0$$

$$\Gamma_6 = \frac{2,3}{7} \log \frac{1}{1} - \log \frac{0}{0}$$

$$= 0,32 \log 0,010 - 0$$

$$= 0,32 \cdot (-2) \cdot 0$$

$$= 0$$

9 Hasil efektivitas ekstrak daun pepaya pada daun

ANALYSIS OF VARIANCE
VARIABLE: 28 hst

Average of 28 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P1	66,6666667	100	100	100	100	93,3
P2	88,8888889	100	100	100	100	97,8
P3	100	100	100	100	100	100,0
P4	77,7777778	100	100	100	100	95,6
Grand Total	83,3333333	100	100	100	100	96,7

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	888,888889	4	222,222222	5,4						
Perlakuan	123,45679	3	41,1522634	1	0,42622138		2,86888	4,0572	8,83989	12,3929
Residual	493,82716	12	41,1522634			6,63620999				
Total	1506,17284	19	79,2722547							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 2,86887646105719; DF: 12
HSD: 12,0454375017284

1	93,3 c
4	95,6 c
2	97,8 c
3	100,0 d

ANALYSIS OF VARIANCE
VARIABLE: 35 hst

Average of 35 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P1	53,3333333	58,8235294	63,1578947	70	81,25	65,3
P2	80	100	100	100	100	96,0
P3	100	100	100	100	100	100,0
P4	100	100	100	100	100	100,0
Grand Total	83,3333333	89,7058824	90,7894737	92,5	95,3125	90,3

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	316,352696	4	79,0881741	2,01981675						
Perlakuan	4225,09702	3	1408,36567	35,9679638	2,8175E-06	**	2,79843	3,95758	8,62283	12,0886
Residual	469,873362	12	39,1561135			6,92749549				
Total	5011,32308	19	263,753846							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 2,79843236219504; DF: 12
HSD: 11,7496666654001

1	65,3 b
2	96,0 c
3	100,0 d
4	100,0 d

ANALYSIS OF VARIANCE
VARIABLE: 42 hst

Average of 42 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P1	45,45454545	60	60,71428571	57,69230769	70,37037037	58,8
P2	68,18181818	86,36363636	82,14285714	84,61538462	92,59259259	82,8
P3	90,90909091	100	100	100	100	98,2
P4	100	100	100	100	100	100,0
Grand Total	76,13636364	86,59090909	85,71428571	85,57692308	90,74074074	85,0

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	459,5303804	4	114,8825951	5,494767529						
Perlakuan	5438,493389	3	1812,83113	86,70665576	2,11549E-08	**	2,044878	2,891895	6,300897	8,833406
Residual	250,8916226	12	20,90783522			5,382445543				
Total	6148,915392	19	323,6271259							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 2,04487856497947; DF: 12
HSD: 8,5857503058907

1	58,8 a
2	82,8 c
3	98,2 c
4	100,0 d

ANALYSIS OF VARIANCE
VARIABLE: 49 hst

Average of 49 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P1	41,9354839	46,875	51,4285714	44,1176471	48,48484848	46,6
P2	70,9677419	83,8709677	74,2857143	76,4705882	84,84848485	78,1
P3	90,3225806	100	100	100	100	98,1
P4	100	100	100	100	100	100,0
Grand Total	75,8064516	82,6864919	81,4285714	80,1470588	83,33333333	80,7

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	142,648185	4	35,6620463	3,19241872						
Perlakuan	9229,03011	3	3076,34337	275,390147	2,50996E-11	**	1,49471	2,11385	4,60567	6,45682
Residual	134,050259	12	11,1708549			4,14262157				
Total	9505,72856	19	500,301503							

MULTIPLE COMPARISON TEST
Procedure: Tukey HSD method (p= 0,05)
S.E.M.: 1,49471413387728; DF: 12
HSD: 6,27579678907966

1	46,6 a
2	78,1 b
3	98,1 c
4	100,0 d

ANALYSIS OF VARIANCE VARIABLE: 56 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,2562466145628; DF: 12 HSD: 5,27455269959515			
Average of 56 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total	1	43,7	c	
P1	40,4761905	45	45,2380952	42,8571429	44,7368421	43,7	2	69,0	c	
P2	64,2857143	76,1904762	64,2857143	69,047619	71,0526316	69,0	3	98,1	b	
P3	90,4761905	100	100	100	100	98,1	4	100,0	a	
P4	100	100	100	100	100	100,0				
Grand Total	73,8095238	80,297619	77,3809524	77,9761905	78,9473684	77,7				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	94,463477	4	23,6158692	2,99284361						
Perlakuan	10740,1697	3	3580,05656	453,70125	1,3016E-12 **		1,25625	1,7766	3,87088	5,4267
Residual	94,689355	12	7,89077958			3,61607732				
Total	10929,3225	19	575,227501							

ANALYSIS OF VARIANCE VARIABLE: 63 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,30306556875873; DF: 12 HSD: 5,47112958058621			
Average of 63 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total	1	41,4	a	
P1	33,3333333	41,3043478	48	42	42,5531915	41,4	2	64,1	b	
P2	57,7777778	71,1111111	64	64	63,8297872	64,1	3	91,1	c	
P3	86,6666667	93,4782609	92	92	91,4893617	91,1	4	100,0	d	
P4	100	100	100	100	100	100,0				
Grand Total	69,4444444	76,47343	76	74,5	74,4680851	74,2				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	124,732244	4	31,183061	3,67296084						
Perlakuan	10633,1105	3	3544,37018	417,480916	2,1339E-12 **		1,30307	1,84281	4,01514	5,62894
Residual	101,87877	12	8,48989747			3,92808462				
Total	10859,7215	19	571,564292							

ANALYSIS OF VARIANCE VARIABLE: 70 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,65347516260284; DF: 12 HSD: 6,9423804064583			
Average of 70 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total	1	40,1	a	
P1	38,9830508	33,9285714	44,8275862	41,8181818	40,7407407	40,1	2	61,7	b	
P2	57,6271186	69,4915254	63,7931034	58,1818182	59,2592593	61,7	3	85,9	c	
P3	81,3559322	89,2857143	84,4827586	87,2727273	87,037037	85,9	4	99,3	d	
P4	98,3050847	98,2142857	100	100	100	99,3				
Grand Total	69,0677966	72,7300242	73,2758621	71,8181818	71,7592593	71,7				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	41,9427869	4	10,4856967	0,76706441						
Perlakuan	10324,6964	3	3441,56548	251,762228	4,2625E-11 **		1,65348	2,33837	5,09486	7,14264
Residual	164,038847	12	13,6699039			5,15442873				
Total	10530,6781	19	554,246214							

10 Hasil efektivitas ekstrak daun pepaya pada buah

ANALYSIS OF VARIANCE VARIABLE: 70 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,6960005644234; DF: 12 HSD: 7,12093011984563			
Average of 70 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total	1	83,3	c	
P1	80	81,8181818	75	84,6153846	95	83,3	2	98,3	c	
P2	100	100	91,6666667	100	100	98,3	3	100	d	
P3	100	100	100	100	100	100,0	4	100	d	
P4	100	100	100	100	100	100,0				
Grand Total	95	95,4545455	91,6666667	96,1538462	98,75	95,4				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	103,565646	4	25,8914114	1,80025407						
Perlakuan	988,280295	3	329,426765	22,9053513	2,9577E-05 **		1,696	2,39851	5,2259	7,32633
Residual	172,585049	12	14,3820874			3,97502416				
Total	1264,43099	19	66,5489995							

ANALYSIS OF VARIANCE							MULTIPLE COMPARISON TEST						
VARIABLE: 77 hst							Procedure: Tukey HSD method (p= 0,05)						
							S.E.M.: 2,10838594631818; DF: 12						
							HSD: 8,85239622222686						
Average of 77 hst Ulangan													
Perlakuan	1	2	3	4	5	Grand Total	1	61,4	b				
P1	50	67,7419355	55	65	69,2307692	61,4	2	94,9	c				
P2	100	93,5483871	90	95	96,1538462	94,9	3	100	d				
P3	100	100	100	100	100	100,0	4	100	d				
P4	100	100	100	100	100	100,0							
Grand Total	87,5	90,3225806	86,25	90	91,3461538	89,1							
ANOVA TABLE													
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)			
Blocks	72,1243589	4	18,0310897	0,81124472									
Perlakuan	5196,61111	3	1732,2037	77,9343418	3,8863E-08	**	2,10839	2,98171	6,49658	9,10774			
Residual	266,717393	12	22,2264494			5,29220392							
Total	5535,45286	19	291,339624										

ANALYSIS OF VARIANCE							MULTIPLE COMPARISON TEST						
VARIABLE: 84 hst							Procedure: Tukey HSD method (p= 0,05)						
							S.E.M.: 1,47182508737027; DF: 12						
							HSD: 6,17969345980883						
Average of 84 hst Ulangan													
Perlakuan	1	2	3	4	5	Grand Total	1	51,5	a				
P1	42,1052632	47,0588235	57,1428571	55,1724138	56,25	51,5	2	78,5	b				
P2	73,6842105	76,4705882	78,5714286	82,7586207	81,25	78,5	3	100	d				
P3	100	100	100	100	100	100,0	4	100	d				
P4	100	100	100	100	100	100,0							
Grand Total	78,9473684	80,8823529	83,9285714	84,4827586	84,375	82,5							
ANOVA TABLE													
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)			
Blocks	98,8922105	4	24,7230526	2,28254724									
Perlakuan	7931,41182	3	2643,80394	244,08828	5,1163E-11	**	1,47182	2,08147	4,53514	6,35795			
Residual	129,976119	12	10,8313432			3,98809087							
Total	8160,28015	19	429,488429										

ANALYSIS OF VARIANCE							MULTIPLE COMPARISON TEST						
VARIABLE: 91 hst							Procedure: Tukey HSD method (p= 0,05)						
							S.E.M.: 2,61762798667276; DF: 12						
							HSD: 10,9905305244908						
Average of 91 hst Ulangan													
Perlakuan	1	2	3	4	5	Grand Total	1	42,9	a				
P1	24	41,8181818	51,4285714	47,2222222	50	42,9	2	71,0	b				
P2	60	73,3333333	74,2857143	72,2222222	75	71,0	3	98,9	c				
P3	100	100	94,2857143	100	100	98,9	4	100	d				
P4	100	100	100	100	100	100,0							
Grand Total	71	78,7878788	80	79,8611111	81,25	78,2							
ANOVA TABLE													
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)			
Blocks	269,941404	4	67,485351	1,96980742									
Perlakuan	11003,9109	3	3667,97029	107,063162	6,3006E-09	**	2,61763	3,70188	8,06571	11,3076			
Residual	411,11847	12	34,2598725			7,48683612							
Total	11684,9707	19	614,99846										

ANALYSIS OF VARIANCE							MULTIPLE COMPARISON TEST						
VARIABLE: 98 hst							Procedure: Tukey HSD method (p= 0,05)						
							S.E.M.: 3,36957382306791; DF: 12						
							HSD: 14,1476956028521						
Average of 98 hst Ulangan													
Perlakuan	1	2	3	4	5	Grand Total	1	39,2	a				
P1	19,3548387	36,1702128	50	47,7272727	42,8571429	39,2	2	61,5	b				
P2	41,9354839	61,7021277	64,2857143	65,9090909	73,4693878	61,5	3	98,6	c				
P3	100	100	95,2380952	100	97,9591837	98,6	4	100	d				
P4	100	100	100	100	100	100,0							
Grand Total	65,3225806	74,4680851	77,3809524	78,4090909	78,5714286	74,8							
ANOVA TABLE													
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)			
Blocks	495,350167	4	123,837542	2,18138532									
Perlakuan	13235,5179	3	4411,83931	77,7140873	3,9493E-08	**	3,36957	4,7653	10,3827	14,5558			
Residual	681,241634	12	56,7701361			10,0688934							
Total	14412,1097	19	758,532092										

ANALYSIS OF VARIANCE

VARIABLE: 105 hst

Average of 105 hst Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P1	15,7894737	32,7272727	46	46,2962963	40,3508772	36,2
P2	39,4736842	56,3636364	62	61,1111111	70,1754386	57,8
P3	89,4736842	94,5454545	92	94,4444444	92,9824561	92,7
P4	100	100	100	100	100	100,0
Grand Total	61,1842105	70,9090909	75	75,462963	75,877193	71,7

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	614,821245	4	153,705311	3,25805756						
Perlakuan	13459,4072	3	4486,46908	95,0986948	1,2461E-08 **		3,07171	4,34405	9,46488	13,2691
Residual	566,123741	12	47,1769784			9,58134601				
Total	14640,3522	19	770,544853							

MULTIPLE COMPARISON TEST

Procedure: Tukey HSD method (p= 0,05)

S.E.M.: 3,07170862702698; DF: 12

HSD: 12,8970608503438

1	36,2	a
2	57,8	a
3	92,7	c
4	100,0	d

ANALYSIS OF VARIANCE

VARIABLE: 112 hst

Average of 112 hs Ulangan

Perlakuan	1	2	3	4	5	Grand Total
P1	15,2173913	32,8125	40,6779661	46,031746	39,3939394	34,8
P2	41,3043478	53,125	59,3220339	55,5555556	68,1818182	55,5
P3	86,9565217	85,9375	88,1355932	87,3015873	84,8484848	86,6
P4	97,826087	96,875	100	100	96,969697	98,3
Grand Total	60,326087	67,1875	72,0338983	72,2222222	72,3484848	68,8

MULTIPLE COMPARISON TEST

Procedure: Tukey HSD method (p= 0,05)

S.E.M.: 2,97613112473434; DF: 12

HSD: 12,4957633925882

1	34,8 a
2	55,5 a
3	86,6 c
4	98,3 c

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	436,66405	4	109,166013	2,46497952						
Perlakuan	12607,596	3	4202,532	94,8935945	1,2617E-08	**	2,97613	4,20889	9,17037	12,8562
Residual	531,441393	12	44,2867827			9,66939802				
Total	13575,7015	19	714,510603							

11 hasil bobot buah per tanaman (gram)

ANALYSIS OF VARIANCE							MULTIPLE COMPARISON TEST			
VARIABLE: 70 hst							Procedure: Tukey HSD method (p= 0,05)			
							S.E.M.: 3,41649106510642; DF: 16			
							HSD: 14,802589272071			
Average of 70 hst Ulangan										
Perlakuan	1	2	3	4	5	Grand Total	1	29,696	a	
P0	28,8	34,8	40,4	40,4	4,08	29,696	2	47,92	b	
P1	49,8	42,8	54,4	54,4	38,2	47,92	3	51,32	bc	
P2	47,2	59,6	55,6	55,2	39	51,32	4	64,24	cd	
P3	71,6	63,2	62,2	60,6	63,6	64,24	5	73,84	d	
P4	77,6	76,4	72	68,8	74,4	73,84				
Grand Total	55	55,36	56,92	55,88	43,856	53,4032				
ANOVA TABLE										
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	580,1514	4	145,0379	2,48514						
Perlakuan	5657,678	4	1414,419	24,23526	1,28E-06 **		3,41649	4,83165	10,2426	14,1122
Residual	933,7929	16	58,36206			14,305334				
Total	7171,622	24	298,8176							

ANALYSIS OF VARIANCE VARIABLE: 77 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 2,73102245853096; DF: 16 HSD: 11,8326677799101				
Average of 77 hst Ulangan											
Perlakuan	1	2	3	4	5	Grand Total	1	25,024	a		
P0	22,4	28	35,4	35,4	3,92	25,024	2	40,68	b		
P1	40,8	36,6	45,8	45,8	34,4	40,68	3	44,64	b		
P2	41,4	51,6	48,8	47	34,4	44,64	4	56,88	c		
P3	61	60,6	56	52,4	54,4	56,88	5	61,88	c		
P4	65,8	61,6	62	59,4	60,6	61,88					
Grand Total	46,28	47,68	49,6	48	37,544	45,8208					
ANOVA TABLE											
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)	
Blocks	456,0209	4	114,0052	3,057062							
Perlakuan	4202,664	4	1050,666	28,17372	4,57E-07 **		2,73102	3,86225	8,1876	11,2808	
Residual	596,6787	16	37,29242			13,327466					
Total	5255,364	24	218,9735								

ANALYSIS OF VARIANCE VARIABLE: 84 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 2,13443717435065; DF: 16 HSD: 9,24784997731828		
Average of 84 hst Ulangan									
Perlakuan	1	2	3	4	5	Grand Total	1	20,512	a
P0	18	21,6	30	30	2,96	20,512	2	35,36	b
P1	33,4	32	40	40	31,4	35,36	3	39,04	b
P2	36,2	43,8	44,4	40,6	30,2	39,04	4	49,2	b
P3	53	51,6	52	47,2	42,2	49,2	5	54,44	c
P4	58,2	52,6	55,8	53	52,6	54,44			
Grand Total	39,76	40,32	44,44	42,16	31,872	39,7104			

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	450,9212	4	112,7303	4,948847						
Perlakuan	3474,838	4	868,7095	38,13625	5,43E-08	**	2,13444	3,01855	6,39904	8,81652
Residual	364,4657	16	22,7791			12,018882				
Total	4290,225	24	178,7594							

ANALYSIS OF VARIANCE VARIABLE: 91 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,71782329390438; DF: 16 HSD: 7,44279208611676		
Average of 91 hst Ulangan									
Perlakuan	1	2	3	4	5	Grand Total	1	17,832	a
P0	14,8	17,8	26,2	26,2	4,16	17,832	2	30,48	b
P1	27,8	27,4	35	35	27,2	30,48	3	34,88	b
P2	33,4	38,6	39,8	35,8	26,8	34,88	4	43,48	c
P3	47,8	43,6	47	42,2	36,8	43,48	5	48	c
P4	49,2	48,8	50	46,4	45,6	48			
Grand Total	34,6	35,24	39,6	37,12	28,112	34,9344			

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	366,4751	4	91,61878	6,209513						
Perlakuan	2780,37	4	695,0924	47,11027	1,18E-08	**	1,71782	2,42937	5,15003	7,09566
Residual	236,0733	16	14,75458			10,995379				
Total	3382,918	24	140,9549							

ANALYSIS OF VARIANCE VARIABLE: 98 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,25349314075686; DF: 16 HSD: 5,43099448070828		
Average of 98 hst Ulangan									
Perlakuan	1	2	3	4	5	Grand Total	1	14,048	a
P0	11,8	14,2	20,4	20,4	3,44	14,048	2	26,52	a
P1	24,2	24,2	30,4	30,4	23,4	26,52	3	31,2	b
P2	29,4	34,4	35,8	32,4	24	31,2	4	38,48	b
P3	41,4	38,4	43,4	37,2	32	38,48	5	42,92	c
P4	44,6	44	46	41,4	38,6	42,92			
Grand Total	30,28	31,04	35,2	32,36	24,288	30,6336			

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	321,9465	4	80,48662	10,24495						
Perlakuan	2524,231	4	631,0578	80,32584	2,21E-10	**	1,25349	1,77271	3,75797	5,17769
Residual	125,6996	16	7,856224			9,1497429				
Total	2971,877	24	123,8282							

ANALYSIS OF VARIANCE VARIABLE: 105 hst							MULTIPLE COMPARISON TEST Procedure: Tukey HSD method (p= 0,05) S.E.M.: 1,04636530109135; DF: 16 HSD: 4,53357420974838		
Average of 105 hst Ulangan									
Perlakuan	1	2	3	4	5	Grand Total	1	10,52	a
P0	8,2	6,8	17	17	3,6	10,52	2	23	a
P1	20,4	21	26,6	26,6	20,4	23	3	27,6	a
P2	26,8	29	31,8	29,2	21,2	27,6	4	34,2	b
P3	35,4	33,4	38,8	34,6	28,8	34,2	5	38	b
P4	40	39,2	40,4	37,4	33	38			
Grand Total	26,16	25,88	30,92	28,96	21,4	26,664			

ANOVA TABLE

EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05)	LSD (0.01)
Blocks	259,8176	4	64,9544	11,86512						
Perlakuan	2301,13	4	575,2824	105,0859	2,85E-11	**	1,04637	1,47978	3,137	4,32213
Residual	87,5904	16	5,4744			8,7749159				
Total	2648,538	24	110,3557							

ANALYSIS OF VARIANCE						MULTIPLE COMPARISON TEST			
VARIABLE: 112 hst						Procedure: Tukey HSD method (p= 0,05)			
Average of 112 hs Ulangan						S.E.M.: 1,07096766732918; DF: 16			
						HSD: 4,64016858262967			
Perlakuan	1	2	3	4	5	Grand Total	1	6,024	a
P0	2,6	1,6	11,2	11,2	3,52	6,024	2	19,32	a
P1	16,2	17,2	22,6	22,6	18	19,32	3	23,96	a
P2	24,2	25	28,2	24,2	18,2	23,96	4	29,56	a
P3	31,6	29	32,8	29,6	24,8	29,56	5	32,92	b
P4	35,2	32,6	35	32	29,8	32,92			
Grand Total	21,96	21,08	25,96	23,92	18,864	22,3568			
ANOVA TABLE									
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05) LSD (0.01)
Blocks	147,0698	4	36,76746	6,411226					
Perlakuan	2210,1	4	552,5251	96,34506	5,53E-11 **		1,07097	1,51458	3,21076 4,42375
Residual	91,7577	16	5,734856			10,711533			
Total	2448,928	24	102,0387						

ANALYSIS OF VARIANCE						MULTIPLE COMPARISON TEST			
VARIABLE: 105 hst						Procedure: Tukey HSD method (p= 0,05)			
Average of 105 hs Ulangan						S.E.M.: 1,04636530109135; DF: 16			
						HSD: 4,53357420974838			
Perlakuan	1	2	3	4	5	Grand Total	1	10,52	a
P0	8,2	6,8	17	17	3,6	10,52	2	23	b
P1	20,4	21	26,6	26,6	20,4	23	3	27,6	c
P2	26,8	29	31,8	29,2	21,2	27,6	4	34,2	d
P3	35,4	33,4	38,8	34,6	28,8	34,2	5	38	d
P4	40	39,2	40,4	37,4	33	38			
Grand Total	26,16	25,88	30,92	28,96	21,4	26,664			
ANOVA TABLE									
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05) LSD (0.01)
Blocks	259,8176	4	64,9544	11,86512					
Perlakuan	2301,13	4	575,2824	105,0859	2,85E-11 **		1,04637	1,47978	3,137 4,32213
Residual	87,5904	16	5,4744			8,7749159			
Total	2648,538	24	110,3557						

12 bobot buah setiap perlakuan

ANALYSIS OF VARIANCE						MULTIPLE COMPARISON TEST			
VARIABLE: Bobot Buah						Procedure: Tukey HSD method (p= 0,05)			
Average of Bobot Buah Ulangan						S.E.M.: 8,08970462763938; DF: 24			
						HSD: 36,7378853860104			
Perlakuan	1	2	3	4	5	Grand Total	7	552,2	a
P1	1375	1384	1423	1311	1269	1352,4	6	663,2	b
P2	1157	1192	1240	1133	1075	1159,4	5	769,4	c
P3	994	1008	1111	1007	913	1006,6	4	879,6	d
P4	865	881	990	874	788	879,6	3	1006,6	e
P5	757	776	880	761	673	769,4	2	1159,4	f
P6	654	647	773	673	569	663,2	1	1352,4	g
P7	549	527	649	563	473	552,2			
Grand Total	907,285714	916,428571	1009,42857	903,142857	822,857143	911,828571			
ANOVA TABLE									
EFFECT	SS	DF	MS	F	ProbF	VC (%)	SEM	SED	LSD (0.05) LSD (0.01)
Blocks	122912,4	4	30728,1	93,9075027					
Perlakuan	2384249,37	6	397374,895	1214,40909	1,4178E-28 **		8,08971	11,4406	23,6122 31,9986
Residual	7853,2	24	327,216667			1,98383027			
Total	2515014,97	34	73971,0286						

RIWAYAT HIDUP



Penulis lahir di Banyumas pada tanggal 29 Mei 2001 sebagai anak tunggal dari pasangan Bapak Wanto dan Ibu Sukanti. Penulis bertempat tinggal di Karangtengah RT 02 RW 07, Kecamatan Cilongok, Kabupaten Banyumas. Penulis memulai pendidikan di SD Negeri 03 Karangtengah, lulus pada tahun 2014. kemudian melanjutkan ke tingkat menengah pertama di MTS 2 Cilongok, lulus pada tahun 2017. Jenjang pendidikan menengah atas diselesaikan pada tahun 2020 di SMK PPHQ Pekuncen dan melanjutkan ke program studi Agroteknologi, Fakultas Sains dan Teknologi, Universitas Nahdlatul Ulama Purwokerto. Selama menempuh studi, penulis pernah aktif di Lembaga Pers Mahasiswa Pena Juang, Pengurus Himpunan Mahasiswa Agroteknologi, Universitas Nahdlatul Ulama Purwokerto.

