BAB V
KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil penelitian dapat di simpulkan:

1. Perlakuan pupuk NPK Pelangi tidak berpengaruh nyata pada parameter tinggi tanaman, jumlah daun, tetapi berpengaruh nyata pada parameter jumlah bunga dan presentase bunga yang menjadi buah, jumlah polong pertanaman, panjang polong, berat polong pertanaman, berat polong perpetak, dan berat polong perhektar.
2. Perlakuan pupuk NPK pelangi yang memberikan pengaruh terbaik terhadap jumlah bunga dan presentase bunga yang menjadi buah, jumlah polong pertanaman, panjang polong, berat polong pertanaman, berat polong perpetak, dan berat polong perhektar secara umum terdapat pada perlakuan dosis 600 Kg/ha.

5.2 Saran

Berdasarkan kesimpulan di atas, maka pada penelitian ini dapat di sarankan agar petani membudidayakan kacang panjang menggunakan NPK Pelangi dan untuk memperoleh hasil terbaik di sarankan menggunakan dosis 600 Kg/ha.

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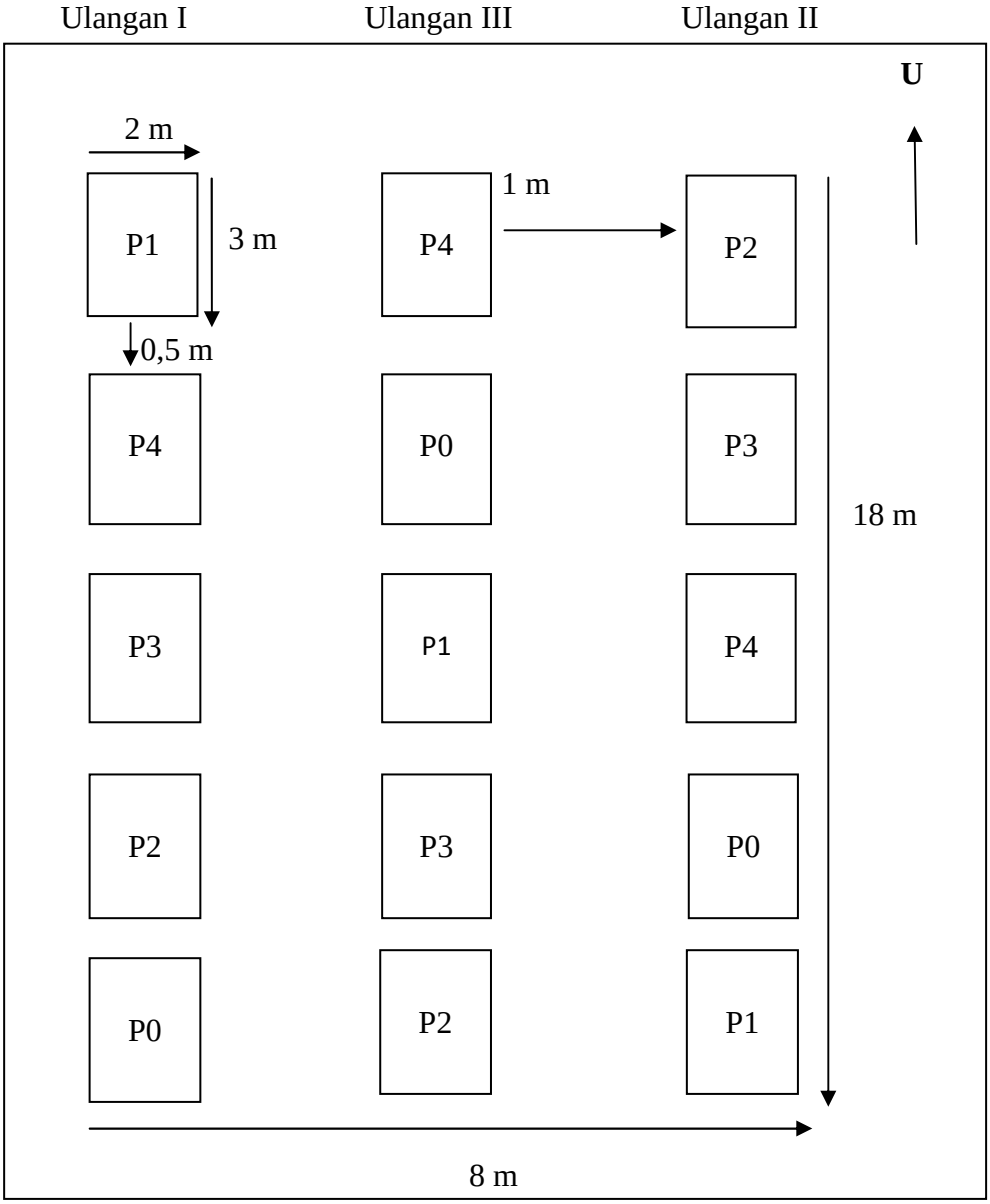
DAFTAR LAMPIRAN

Lampiran 1. Lay Out Penelitian



Lampiran 2. Rataan Pertumbuhan dan Analisis Sidik Ragam

2.a. Tinggi Tanaman 1 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	14,5	14,2	15	43,7	14,57
150	16,4	12,04	17,1	45,54	15,18
300	12,3	17,4	15,5	45,2	15,07
450	15,4	17,2	13,7	46,3	15,43
600	16,8	14,44	16,5	47,74	15,91
Jumlah	75,4	75,28	77,8	228,48	76,16
Rataan	15,08	15,06	15,56	45,70	15,23

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Tinggi Tanaman

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	3.74069333	0.62344889	0.13	0.9877
Error	8	37.26714667	4.65839333		
Corrected Total	14	41.00784000			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.091219	14.16972	2.158331	15.23200

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	2.93237333	0.73309333	0.16	0.9541
blok	2	0.80832000	0.40416000	0.09	0.9177

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	4.658393
Critical Value of t	2.30600
Least Significant Difference	4.0638

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	15.913	3	P4
A			
A	15.433	3	P3
A			
A	15.180	3	P1
A			
A	15.067	3	P2
A			
A	14.567	3	KONTROL

2.b. Tinggi Tanaman 2 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	30,96	23	20,3	74,26	24,75
150	29,7	30,7	18,4	78,8	26,27
300	27,7	27,9	27,8	83,4	27,80
450	28,5	25,3	29,4	83,2	27,73
600	28,8	31,6	25,4	85,8	28,60
Jumlah	145,7	138,5	121,3	405,46	135,15
Rataan	29,13	27,7	24,26	81,09	27,03

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Tinggi Tanaman

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	90.6561067	15.1093511	1.00	0.4843
Error	8	120.6413867	15.0801733		
Corrected Total	14	211.2974933			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.429045	14.36635	3.883320	27.03067

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	27.95509333	6.98877333	0.46	0.7614
blok	2	62.70101333	31.35050667	2.08	0.1875

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	15.08017
Critical Value of t	2.30600
Least Significant Difference	7.3117

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	28.600	3	P4
A			
A	27.800	3	P2
A			
A	27.733	3	P3
A			
A	26.267	3	P1
A			
A	24.753	3	KONTROL

3.a. Jumlah Daun 1 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	2,6	2,4	2,2	7,2	2,40
150	2,2	2,6	2,6	7,4	2,47
300	2,6	2,4	2	7	2,33
450	2,2	3	2,6	7,8	2,60
600	2,6	2,8	3	8,4	2,80
Jumlah	12,2	13,2	12,4	37,8	12,60
Rataan	2,44	2,64	2,48	7,56	2,52

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Jumlah Daun

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.52266667	0.08711111	1.05	0.4589
Error	8	0.66133333	0.08266667		
Corrected Total	14	1.18400000			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.441441	11.40945	0.287518	2.520000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	0.41066667	0.10266667	1.24	0.3668
blok	2	0.11200000	0.05600000	0.68	0.5348

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.082667
Critical Value of t	2.30600
Least Significant Difference	0.5414

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	2.8000	3	P4
A			
A	2.6000	3	P3
A			
A	2.4667	3	P1
A			
A	2.4000	3	KONTROL
A			
A	2.3333	3	P2

3.b. Jumlah Daun 2 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	5	4,2	4,4	13,6	4,53
150	5,2	5,6	3,8	14,6	4,87
300	5,6	5,6	4,6	15,8	5,27
450	5	5,4	5,2	15,6	5,20
600	7	6	4	17	5,67
Jumlah	27,8	26,8	22	76,6	25,53
Rataan	5,56	5,36	4,4	15,32	5,11

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Jumlah Daun

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	6.04800000	1.00800000	2.18	0.1523
Error	8	3.70133333	0.46266667		
Corrected Total	14	9.74933333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.620350	13.31977	0.680196	5.106667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	2.20266667	0.55066667	1.19	0.3850
blok	2	3.84533333	1.92266667	4.16	0.0579

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.462667
Critical Value of t	2.30600
Least Significant Difference	1.2807

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	5.6667	3	P4
A			
A	5.2667	3	P2
A			
A	5.2000	3	P3
A			
A	4.8667	3	P1
A			
A	4.5333	3	KONTROL

4.a. Jumlah Bunga 5 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	4,2	2,8	2,6	9,6	3,20
150	4,6	3,6	3	11,2	3,73
300	5,4	4,6	3,8	13,8	4,60
450	6,4	5,8	5	17,2	5,73
600	5,8	5	4,8	15,6	5,20
Jumlah	26,4	21,8	19,2	67,4	22,47
Rataan	5,28	4,36	3,84	13,48	4,49

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Jumlah Bunga

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	18.21333333	3.03555556	72.28	<.0001
Error	8	0.33600000	0.04200000		
Corrected Total	14	18.54933333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.981886	4.560957	0.204939	4.493333

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	12.89600000	3.22400000	76.76	<.0001
blok	2	5.31733333	2.65866667	63.30	<.0001

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.042
Critical Value of t	2.30600
Least Significant Difference	0.3859

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	5.7333	3	P3
B	5.2000	3	P4
C	4.6000	3	P2
D	3.7333	3	P1
E	3.2000	3	KONTROL

4.b. Jumlah Bunga 6 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	6,6	4,8	5,4	16,8	5,60
150	6,4	5,4	5,6	17,4	5,80
300	7,4	6,4	6,2	20	6,67
450	8,6	8,4	9,2	26,2	8,73
600	6,4	7,6	7,4	21,4	7,13
Jumlah	35,4	32,6	33,8	101,8	33,93
Rataan	7,08	6,52	6,76	20,36	6,79

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Jumlah Bunga

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	19.70666667	3.28444444	7.61	0.0057
Error	8	3.45066667	0.43133333		
Corrected Total	14	23.15733333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.850990	9.677206	0.656760	6.786667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	18.91733333	4.72933333	10.96	0.0025
blok	2	0.78933333	0.39466667	0.91	0.4387

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.431333
Critical Value of t	2.30600
Least Significant Difference	1.2366

Means with the same letter are not significantly different.

t Grouping		Mean	N	PERLK
A		8.7333	3	P3
B		7.1333	3	P4
B				
C	B	6.6667	3	P2
C				
C		5.8000	3	P1
C				
C		5.6000	3	KONTROL

5.a. Presentase Bunga Menjadi Buah 5 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	0,90	1,36	1,08	3,34	1,11
150	1,04	1,44	1,20	3,69	1,23
300	1,11	1,52	1,37	4,00	1,33
450	1,63	1,79	2,12	5,54	1,85
600	1,31	1,72	1,46	4,49	1,50
Jumlah	5,99	7,84	7,22	21,05	7,02
Rataan	1,20	1,57	1,44	4,21	1,40

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Presentase Bunga Menjadi Buah

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	1.32861333	0.22143556	13.29	0.0009
Error	8	0.13332000	0.01666500		
Corrected Total	14	1.46193333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.908806	9.199025	0.129093	1.403333

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	0.97640000	0.24410000	14.65	0.0009
blok	2	0.35221333	0.17610667	10.57	0.0057

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.016665
Critical Value of t	2.30600
Least Significant Difference	0.2431

Means with the same letter are not significantly different.

t Grouping		Mean	N	PERLK
A		1.8467	3	P3
B		1.4967	3	P4
B				
B	C	1.3333	3	P2
C				
C		1.2267	3	P1
C				
C		1.1133	3	KONTROL

5.b. Presentase Bunga Menjadi Buah 6 MST

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	1,61	1,58	1,26	4,45	1,48
150	1,81	1,70	2,36	5,87	1,96
300	1,89	2,28	2,65	6,82	2,27
450	2,00	3,19	3,04	8,23	2,74
600	2,38	2,37	3,11	7,85	2,62
Jumlah	9,69	11,13	12,41	33,23	11,08
Rataan	1,94	2,23	2,48	6,65	2,22

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Presentase Bunga Menjadi Buah

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	3.89176000	0.64862667	4.86	0.0222
Error	8	1.06861333	0.13357667		
Corrected Total	14	4.96037333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.784570	16.49781	0.365481	2.215333

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	3.14590667	0.78647667	5.89	0.0165
blok	2	0.74585333	0.37292667	2.79	0.1203

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.133577
Critical Value of t	2.30600
Least Significant Difference	0.6881

Means with the same letter are not significantly different.

t Grouping		Mean	N	PERLK
A		2.7433	3	P3
A				
B	A	2.6200	3	P4
B	A			
B	A	2.2733	3	P2
B				
B	C	1.9567	3	P1
C				
C		1.4833	3	KONTROL

6.a. Jumlah Polong Pertanaman 6 MST (Panen Ke- 1)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	3,8	4,2	2,8	10,8	3,60
150	4,8	5,2	3,6	13,6	4,53
300	5	6,6	5,2	16,8	5,60
450	10,4	10,4	10,6	31,4	10,47
600	7,6	8,6	6,6	22,8	7,60
Jumlah	31,6	35	28,8	95,4	31,80
Rataan	6,32	7	5,76	19,08	6,36

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Jumlah Polong Pertanaman

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	93.65866667	15.60977778	58.98	<.0001
Error	8	2.11733333	0.26466667		
Corrected Total	14	95.77600000			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.977893	8.088957	0.514458	6.360000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	89.80266667	22.45066667	84.83	<.0001
blok	2	3.85600000	1.92800000	7.28	0.0158

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.264667
Critical Value of t	2.30600
Least Significant Difference	0.9686

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	10.4667	3	P3
B	7.6000	3	P4
C	5.6000	3	P2
D	4.5333	3	P1
D			
D	3.6000	3	KONTROL

6.b. Jumlah Polong Pertanaman 7 MST (Panen Ke- 2)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	10,6	8,6	6,8	26	8,67
150	11,6	9,2	13,2	34	11,33
300	14	14,6	16,4	45	15,00
450	17,2	26,8	28	72	24,00
600	15,2	14,6	23	52,8	17,60
Jumlah	68,6	73,8	87,4	229,8	76,60
Rataan	13,72	14,76	17,48	45,96	15,32

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Jumlah Polong Pertanaman

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	460.1066667	76.6844444	6.47	0.0095
Error	8	94.7573333	11.8446667		
Corrected Total	14	554.8640000			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.829224	22.46481	3.441608	15.32000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	422.4106667	105.6026667	8.92	0.0048
blok	2	37.6960000	18.8480000	1.59	0.2619

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	11.84467
Critical Value of t	2.30600
Least Significant Difference	6.481

Means with the same letter are not significantly different.

t Grouping		Mean	N	PERLK
A		24.000	3	P3
A				
A	B	17.600	3	P4
B	C	15.000	3	P2
B	C			
B	C	11.333	3	P1
C				
C		8.667	3	KONTROL

7.a. Panjang Polong 6 MST (Panen Ke- 1)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	78,4	76,7	72,9	228	76.00
150	84,2	78,6	77,9	240,7	80,23
300	87,6	81,9	83,4	252,9	84,30
450	84,3	81,2	80,4	245,9	81,97
600	93,3	90	89,2	272,5	90,83
Jumlah	427,8	408,4	403,8	1240	413,33
Rataan	85,56	81,68	80,76	248	82,67

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Panjang Polong

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	425.5546667	70.9257778	55.64	<.0001
Error	8	10.1986667	1.2748333		
Corrected Total	14	435.7533333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.976595	1.365829	1.129085	82.66667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	360.6533333	90.1633333	70.73	<.0001
blok	2	64.9013333	32.4506667	25.45	0.0003

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	1.274833
Critical Value of t	2.30600
Least Significant Difference	2.1259

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	90.8333	3	P4
B	84.3000	3	P2
C	81.9667	3	P3
C			
C	80.2333	3	P1
D	76.0000	3	KONTROL

7.b. Panjang Polong 7 MST (Panen Ke -2)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	80,32	82,5	81	243,82	81,27
150	88	82,4	79,06	249,46	83,15
300	89,4	85,2	85,34	259,94	86,65
450	87,3	83,8	84,9	256	85,33
600	94,5	92,2	91,24	277,94	92,65
Jumlah	439,52	426,1	421,54	1287,16	429,1
Rataan	87,90	85,22	84,31	257,43	85,8

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Panjang Polong

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	260.8640533	43.4773422	10.95	0.0017
Error	8	31.7574400	3.9696800		
Corrected Total	14	292.6214933			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.891473	2.321862	1.992406	85.81067

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	225.9193600	56.4798400	14.23	0.0010
blok	2	34.9446933	17.4723467	4.40	0.0514

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	3.96968
Critical Value of t	2.30600
Least Significant Difference	3.7514

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	92.647	3	P4
B	86.647	3	P2
B			
B	85.333	3	P3
B			
B C	83.153	3	P1
C			
C	81.273	3	KONTROL

8.a. Berat Polong Pertanaman 6 MST (Panen Ke-1)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	46	42	34	122	40,67
150	54	58	50	162	54,00
300	62	66	68	196	65,33
450	74	80	78	232	77,33
600	98	102	106	306	102,00
Jumlah	334	348	336	1018	339,33
Rataan	66,8	69,6	67,2	203,6	67,87

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Berat Polong Pertanaman

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	6602.666667	1100.444444	57.51	<.0001
Error	8	153.066667	19.133333		
Corrected Total	14	6755.733333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.977343	6.445236	4.374167	67.86667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	6579.733333	1644.933333	85.97	<.0001
blok	2	22.933333	11.466667	0.60	0.5721

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	19.13333
Critical Value of t	2.30600
Least Significant Difference	8.2359

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	102.000	3	P4
B	77.333	3	P3
C	65.333	3	P2
D	54.000	3	P1
E	40.667	3	KONTROL

8.b. Berat Polong Pertanaman 7 MST (Panen ke-2)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	96	100	102	298	99,33
150	104	110	120	334	111,33
300	118	150	168	436	145,33
450	208	202	210	620	206,67
600	268	292	306	866	288,67
Jumlah	794	854	906	2554	851,33
Rataan	158,8	170,8	181,2	510,8	170,27

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGA

The ANOVA Procedure

Dependent Variable: Y1 Berat Polong Pertanaman

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	74666.13333	12444.35556	104.93	<.0001
Error	8	948.80000	118.60000		
Corrected Total	14	75614.93333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.987452	6.396063	10.89036	170.2667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	73409.60000	18352.40000	154.74	<.0001
blok	2	1256.53333	628.26667	5.30	0.0343

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	118.6
Critical Value of t	2.30600
Least Significant Difference	20.505

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	288.667	3	P4
B	206.667	3	P3
C	145.333	3	P2
D	111.333	3	P1
D			
D	99.333	3	KONTROL

9.a. Berat Polong Perpetak 6 MST (Panen Ke-1)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	1150	1050	850	3050	1016,67
150	1350	1450	1250	4050	1350,00
300	1550	1650	1700	4900	1633,33
450	1850	2000	1950	5800	1933,33
600	2450	2550	2650	7650	2550,00
Jumlah	8350	8700	8400	25450	8483,33
Rataan	1670	1740	1680	5090	1696,67

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Berat Polong Perpetak

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	4126666.667	687777.778	57.51	<.0001
Error	8	95666.667	11958.333		
Corrected Total	14	4222333.333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.977343	6.445236	109.3542	1696.667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	4112333.333	1028083.333	85.97	<.0001
blok	2	14333.333	7166.667	0.60	0.5721

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	11958.33
Critical Value of t	2.30600
Least Significant Difference	205.90

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	2550.00	3	P4
B	1933.33	3	P3
C	1633.33	3	P2
D	1350.00	3	P1
E	1016.67	3	KONTROL

9.b. Berat Polong Perpetak 7 MST (Panen Ke-2)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	2400	2500	2550	7450	2483,3
150	2600	2750	3000	8350	2783,3
300	2950	3750	4200	10900	3633,3
450	5200	5050	5250	15500	5166,7
600	6700	7300	7650	21650	7216,7
Jumlah	19850	21350	22650	63850	21283,3
Rataan	3970	4270	4530	12770	4256,7

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Berat Polong Perpetak

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	46666333.33	7777722.22	104.93	<.0001
Error	8	593000.00	74125.00		
Corrected Total	14	47259333.33			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.987452	6.396063	272.2591	4256.667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	45881000.00	11470250.00	154.74	<.0001
blok	2	785333.33	392666.67	5.30	0.0343

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	74125
Critical Value of t	2.30600
Least Significant Difference	512.62

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	7216.7	3	P4
B	5166.7	3	P3
C	3633.3	3	P2
D	2783.3	3	P1
D			
D	2483.3	3	KONTROL

10.a. Berat Polong Perhektar 6 MST (Panen Ke-1)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	1,53	1,40	1,13	4,06	1,353
150	1,80	1,93	1,67	5,40	1,800
300	2,07	2,20	2,27	6,54	2,180
450	2,47	2,67	2,60	7,74	2,580
600	3,27	3,40	3,53	10,20	3,400
Jumlah	11,13	11,60	11,20	33,93	11,313
Rataan	2,23	2,32	2,24	6,79	2,263

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Berat Polong Perhektar

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.35104000	1.22517333	58.67	<.0001
Error	8	0.16705333	0.02088167		
Corrected Total	14	7.51809333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.977780	6.386487	0.144505	2.262667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	7.32602667	1.83150667	87.71	<.0001
blok	2	0.02501333	0.01250667	0.60	0.5723

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.020882
Critical Value of t	2.30600
Least Significant Difference	0.2721

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	3.4000	3	P4
B	2.5800	3	P3
C	2.1800	3	P2
D	1.8000	3	P1
E	1.3533	3	KONTROL

10.b. Berat Polong Perhektar 7 MST (Panen Ke-2)

Perlakuan Kg/ha	Kelompok/Ulangan			Total	Rata-rata
	Ul. 1	Ul. 2	Ul. 3		
0	3,2	3,33	3,4	9,93	3,310
150	3,4	3,67	4	11,14	3,713
300	3,93	5	5,6	14,53	4,843
450	6,93	6,73	7	20,66	6,887
600	8,93	9,73	10,02	28,68	9,560
Jumlah	26,46	28,46	30,02	84,94	28,313
Rataan	5,292	5,69	6,00	16,99	5,663

HASIL ANALISIS RAGAM

The ANOVA Procedure

Class Level Information

Class	Levels	Values
PERLK	5	KONTROL P1 P2 P3 P4
blok	3	1 2 3

Number of Observations Read 15

Number of Observations Used 15

HASIL ANALISIS RAGAM

The ANOVA Procedure

Dependent Variable: Y1 Berat Polong Perhektar

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	82.89358667	13.81559778	104.47	<.0001
Error	8	1.05798667	0.13224833		
Corrected Total	14	83.95157333			

R-Square	Coeff Var	Root MSE	Y1 Mean
0.987398	6.408476	0.363660	5.674667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
PERLK	4	81.49257333	20.37314333	154.05	<.0001
blok	2	1.40101333	0.70050667	5.30	0.0343

HASIL ANALISIS RAGAM

The ANOVA Procedure

t Tests (LSD) for Y1

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	8
Error Mean Square	0.132248
Critical Value of t	2.30600
Least Significant Difference	0.6847

Means with the same letter are not significantly different.

t Grouping	Mean	N	PERLK
A	9.5600	3	P4
B	6.8867	3	P3
C	4.8433	3	P2
D	3.7133	3	P1
D			
D	3.3100	3	KONTROL

Lampiran 11. Hasil Analisa Tanah

Hasil Analisa Tanah Di Desa Toto Utara Kecamatan Tilongkabila Kabupaten Bone Bolango.

No	Parameter	Hasil Analisa Tanah	Kriteria*)
1	Tekstur		
	a. Pasir	66.87	
	b. Debu	18.07	Lempung Berpasir
	c. Liat	15.06	
2	BV(g/cm3)	1.1	
3	Kadar air (%)	2.77	
4	Permiabilitas	5.74	Sedang
5	pH H_2O	7.2	Netral
6	N Tanah (Kjedahl)	0.10	Rendah
7	P_2O_5 tersedia (Bray 1)	50.74	SgtTnggi
8	C-organik (Walky and Black)	1.19	Rendah
9	K_2O tersedia	0.57	Sgt Rendah
10	KTK me/100 g	19.72	Sedang
11	KB (%)	68.86	

Sumber: PT.PG. Gorontalo-PG. Tolangohula.

Kriteria Penilaian Sifat-sifat Kimia Tanah menurut Balai Penelitian Tanah (1983)*)

DAFTAR GAMBAR

Gambar. 1 Pongolahan Tanah

Gambar. 2 *Penugalan*

Gambar.3 Penanaman Kacang Panjang

Gambar. 4 Tanaman Umur 3 HST

Gambar. 4 Tanaman Umur 5 HST

Gambar. 5 Tanaman Berumur 7 HST

Gambar. 6 Kondisi Tanaman 1 petak

Gambar. 7 Tinggi Tanaman 1 MST

Gambar. 8 *Tinggi Tanaman 2 MST*

Gambar. 9 Pemasangan Ajir

Gambar.10 Penyiangan 2 MST

Gambar.11 Penyiraman

Gambar.12 *Pupuk NPK Pelangi*

Gambar.12 NPK Pelangi

Gambar.13 Timbangan Digital

Gambar. 14 Mulai Berbunga 5 MST

Gambar.15 Mulai Berbuah 6 MST

Gambar. 15 Mulai Berbuah 6 MST

Gambar. 16 Tanaman pada Waktu Panen

Gambar. 17 Tanaman Persampel *Gambar. 18 Saat Penimbangan Berat Buah*

Gambar. 19 Benih Kacang Panjang