BAB V
KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil dan pembahasan pada bagian sebelumnya, maka dapat disimpulkan hal-hal sebagai berikut:

1. Terdapat pengaruh antara pemberian bokasih eceng gondok dan phonska terhadap tinggi tanaman jagug, jumlah daun, diameter batang, berat tongkol, dan panjang tongkol.
2. Perlakuan pupuk phonska pada taraf 300 kg/ha dan perlakuan bokashi eceng gondok 20 ton/ha lah yang dapat memberikan pengaruh terbaik terhadap pertumbuhan dan produksi jagung manis.
3. Tidak terdapat interaksi antara pemberian bokasih eceng gondok dan phonska terhadap pertumbuhan dan produksi jagung manis.

5.2 Saran

Berdasarkan hasil penelitian, pembahasan dan kesimpulan maka pada penelitian ini, disarankan sebagai berikut :

1. Untuk mendapatkan hasil terbaik pada pertumbuhan dan produksi jagung sebaiknya menggunakan pupuk anorganik phonska dan bokasih eceng gondok
2. Untuk mendapatkan hasil terbaik dalam budidaya jagung manis, pupuk anorganik phonska pada taraf 300 kg/ha dan bokasih eceng gondok 20 ton/ha
3. Hasil penelitian ini diupayakan dapat menambah informasi tentang budidaya jagung manis di Provinsi Gorontalo

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Lampiran 1 Hasil pengamatan rataan tinggi tanaman

a. Tinggi Tanaman 3 MST

FAKTOR A (PUPUK PHONSKA)	FAKTOR B (BOKASI ECENG GONDOK)	ULANGAN 1	ULANGAN 2	TOTAL AB	RATA AB
P0	T0	26.57	27.43	54.00	27.00
	T1	27.57	33.14	60.71	30.36
	T2	25.83	33.86	59.69	29.85
P1	T0	30.50	26.14	56.64	28.32
	T1	25.00	30.14	55.14	27.57
	T2	22.43	31.29	53.71	26.86
P2	T0	28.00	20.57	48.57	24.29
	T1	25.14	33.43	58.57	29.29
	T2	30.86	32.43	63.29	31.64
TOTAL KELOMPOK		241.90	268.43	510.33	28.35
		TK1	TK2	TIJK	ŷIJK

The SAS System 16:34 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read	18
Number of Observations Used	18

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The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	135.3286444	12.3026040	0.63	0.7600
Error	6	117.0606667	19.5101111		
Corrected Total	17	252.3893111			

R-Square	Coeff Var	Root MSE	agr Mean
0.536190	15.59806	4.417025	28.31778

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	6.60271111	3.30135556	0.17	0.8482
blk	1	40.92108889	40.92108889	2.10	0.1977
p*blk	2	10.95604444	5.47802222	0.28	0.7646
t	2	32.39337778	16.19668889	0.83	0.4805
p*t	4	44.45542222	11.11385556	0.57	0.6951

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	6.60271111	3.30135556	0.60	0.6240
blk	1	40.92108889	40.92108889	7.47	0.111

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The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	5.478022
Critical Value of t	4.30265
Least Significant Difference	5.8142

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	29.067	6	P0
A			
A	28.303	6	P2
A			
A	27.583	6	P1

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The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	19.51011
Critical Value of t	2.44691
Least Significant Difference	6.24

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	29.450	6	T2
A			
A	29.070	6	T1
A			
A	26.433	6	T0

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The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	27.0000000	0.60811183
P0	T1	2	30.3550000	3.93858477
P0	T2	2	29.8450000	5.67806745
P1	T0	2	28.3200000	3.08298557
P1	T1	2	27.5700000	3.63452886
P1	T2	2	26.8600000	6.26496608
P2	T0	2	23.9800000	4.82246825
P2	T1	2	29.2850000	5.86191522
P2	T2	2	31.6450000	1.11015765

b. Tinggi Tanaman 5 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	68.71	62.00	130.71	65.36
	T1	71.00	78.00	149.00	74.50
	T2	72.29	78.29	150.57	75.29
P1	T0	72.43	80.00	152.43	76.21
	T1	73.00	80.57	153.57	76.79
	T2	75.29	83.86	159.14	79.57
P2	T0	76.00	89.57	165.57	82.79
	T1	82.86	93.57	176.43	88.21
	T2	83.00	93.86	176.86	88.43
TOTAL KELOMPOK		674.57	739.71	1414.29	78.57
		TK1	TK2	TIJK	ŷIJK

The SAS System 17:27 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 17:27 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	1145.518511	104.138046	10.19	0.0049
Error	6	61.342400	10.223733		
Corrected Total	17	1206.860911			

R-Square	Coeff Var	Root MSE	agr Mean
0.949172	4.069450	3.197457	78.57222

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	663.5904778	331.7952389	32.45	0.0006
blk	1	235.7344222	235.7344222	23.06	0.0030
p*blk	2	70.3568778	35.1784389	3.44	0.1010
t	2	133.8881444	66.9440722	6.55	0.0310
p*t	4	41.9485889	10.4871472	1.03	0.4647

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	663.5904778	331.7952389	9.43	0.0959
blk	1	235.7344222	235.7344222	6.70	0.1224

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The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	35.17844
Critical Value of t	4.30265
Least Significant Difference	14.734

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	86.477	6	P2
A			
B A	77.525	6	P1
B			
B	71.715	6	P0

The SAS System 17:27 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	10.22373
Critical Value of t	2.44691
Least Significant Difference	4.5171

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	81.098	6	T2
A			
A	79.833	6	T1
B	74.785	6	T0

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The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	65.3550000	4.74468650
P0	T1	2	74.5000000	4.94974747
P0	T2	2	75.2900000	4.24264069
P1	T0	2	76.2150000	5.35279833
P1	T1	2	76.7850000	5.35279833
P1	T2	2	79.5750000	6.05990511
P2	T0	2	82.7850000	9.59543902
P2	T1	2	88.2150000	7.57311363
P2	T2	2	88.4300000	7.67917964

c. Tinggi Tanaman 7 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	148.00	188.29	336.29	168.14
	T1	159.71	196.00	355.71	177.86
	T2	185.00	197.71	382.71	191.36
P1	T0	191.43	198.29	389.71	194.86
	T1	195.57	201.57	397.14	198.57
	T2	198.29	204.14	402.43	201.21
P2	T0	201.43	204.14	405.57	202.79
	T1	205.00	209.57	414.57	207.29
	T2	209.86	210.43	420.29	210.14
TOTAL KELOMPOK		1694.29	1810.14	3504.43	194.69
		TK1	TK2	TIJK	ŷIJK

The SAS System 17:37 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

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The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	4437.109394	403.373581	10.69	0.0043
Error	6	226.415700	37.735950		
Corrected Total	17	4663.525094			

R-Square	Coeff Var	Root MSE	agr Mean
0.951450	3.155243	6.142959	194.6906

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	2400.388578	1200.194289	31.81	0.0006
blk	1	745.623472	745.623472	19.76	0.0044
p*blk	2	651.774978	325.887489	8.64	0.0171
t	2	454.616011	227.308006	6.02	0.0367
p*t	4	184.706356	46.176589	1.22	0.3922

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
P	2	2400.388578	1200.194289	3.68	0.2135
blk	1	745.623472	745.623472	2.29	0.2695

The SAS System 17:37 Thursday, November 23, 2013 3

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	325.8875

Critical Value of t 4.30265
Least Significant Difference 44.845

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	206.74	6	P2
A			
A	198.22	6	P1
A			
A	179.12	6	P0

The SAS System 17:37 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 37.73595
Critical Value of t 2.44691
Least Significant Difference 8.6783

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	200.905	6	T2
A			
B A	194.570	6	T1
B			
B	188.597	6	T0

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The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	168.145000	28.4893322
P0	T1	2	177.855000	25.6609051
P0	T2	2	191.355000	8.9873272
P1	T0	2	194.860000	4.8507525
P1	T1	2	198.570000	4.2426407
P1	T2	2	201.215000	4.1365747
P2	T0	2	202.785000	1.9162594
P2	T1	2	207.285000	3.2314780
P2	T2	2	210.145000	0.4030509

Lampiran 2 Hasil pengamatan rataan jumlah daun

a. Jumlah Daun 3 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	5.00	5.00	10.00	5.00
	T1	4.71	5.00	9.71	4.86
	T2	5.14	5.14	10.29	5.14
P1	T0	4.71	4.86	9.57	4.79
	T1	4.00	4.71	8.71	4.36
	T2	5.29	4.57	9.86	4.93
P2	T0	4.00	3.86	7.86	3.93
	T1	5.00	5.00	10.00	5.00
	T2	5.14	4.86	10.00	5.00
TOTAL KELOMPOK		43.00	43.00	86.00	4.78
		TK1	TK2	TIJK	ŷIJK

The SAS System 17:48 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 17:48 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	2.45869444	0.22351768	2.37	0.1508
Error	6	0.56686667	0.09447778		
Corrected Total	17	3.02556111			

R-Square	Coeff Var	Root MSE	agr Mean
0.812641	6.434123	0.307372	4.777222

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.44654444	0.22327222	2.36	0.1750
blk	1	0.00000556	0.00000556	0.00	0.9941
p*blk	2	0.04667778	0.02333889	0.25	0.7887
t	2	0.62681111	0.31340556	3.32	0.1071
p*t	4	1.33865556	0.33466389	3.54	0.0818

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.44654444	0.22327222	9.57	0.0946
blk	1	0.00000556	0.00000556	0.00	0.9891

The SAS System 17:48 Thursday, November 23, 2013 3

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	0.023339

Critical Value of t 4.30265
Least Significant Difference 0.3795

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	4.99833	6	P0
A			
A	4.69000	6	P1
A			
A	4.64333	6	P2

The SAS System 17:48 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 0.094478
Critical Value of t 2.44691
Least Significant Difference 0.4342

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	5.0233	6	T2
A			
B A	4.7367	6	T1
B			
B	4.5717	6	T0

The SAS System 17:48 Thursday, November 23, 2013 5
The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	5.00000000	0.00000000
P0	T1	2	4.85500000	0.20506097
P0	T2	2	5.14000000	0.00000000
P1	T0	2	4.78500000	0.10606602
P1	T1	2	4.35500000	0.50204581
P1	T2	2	4.93000000	0.50911688
P2	T0	2	3.93000000	0.09899495
P2	T1	2	5.00000000	0.00000000
P2	T2	2	5.00000000	0.19798990

b. Jumlah Daun 5 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	6.71	7.29	14.00	7.00
	T1	6.43	8.29	14.71	7.36
	T2	7.00	8.00	15.00	7.50
P1	T0	6.86	6.71	13.57	6.79
	T1	7.43	7.29	14.71	7.36
	T2	8.57	7.57	16.14	8.07
P2	T0	6.86	5.86	12.71	6.36
	T1	7.00	8.29	15.29	7.642857143
	T2	7.57	8.57	16.14	8.07
TOTAL KELOMPOK		64.43	67.86	132.29	7.35
		TK1	TK2	TIJK	ŷIJK

The SAS System 17:59 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 17:59 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.67922778	0.69811162	1.87	0.2281
Error	6	2.23846667	0.37307778		
Corrected Total	17	9.91769444			

R-Square	Coeff Var	Root MSE	agr Mean
0.774296	8.310845	0.610801	7.349444

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.04247778	0.02123889	0.06	0.9452
blk	1	0.65360556	0.65360556	1.75	0.2338
p*blk	2	1.86907778	0.93453889	2.50	0.1618
t	2	4.18361111	2.09180556	5.61	0.0423
p*t	4	0.93045556	0.23261389	0.62	0.6629

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.04247778	0.02123889	0.02	0.9778
blk	1	0.65360556	0.65360556	0.70	0.4910

The SAS System 17:59 Thursday, November 23, 2013 3

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	0.934539

Critical Value of t 4.30265
Least Significant Difference 2.4015

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	7.4050	6	P1
A			
A	7.3567	6	P2
A			
A	7.2867	6	

The SAS System 17:59 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 0.373078
Critical Value of t 2.44691
Least Significant Difference 0.8629

Means with the same letter are not significantly different.

t	Grouping	Mean	N	t
	A	7.8800	6	T2
	A			
B	A	7.4550	6	T1
B				
B		6.7133	6	T0

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The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	7.00000000	0.41012193
P0	T1	2	7.36000000	1.31521861
P0	T2	2	7.50000000	0.70710678
P1	T0	2	6.78500000	0.10606602
P1	T1	2	7.36000000	0.09899495
P1	T2	2	8.07000000	0.70710678
P2	T0	2	6.35500000	0.71417785
P2	T1	2	7.64500000	0.91216775
P2	T2	2	8.07000000	0.70710678

c. Jumlah Daun 7 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	9.43	9.29	18.71	9.36
	T1	10.29	9.29	19.57	9.79
	T2	10.14	10.43	20.57	10.29
P1	T0	9.14	10.00	19.14	9.57
	T1	10.00	11.14	21.14	10.57
	T2	11.00	10.86	21.86	10.93
P2	T0	10.00	11.14	21.14	10.57
	T1	10.57	9.86	20.43	10.21
	T2	11.71	12.14	23.86	11.93
TOTAL KELOMPOK		92.29	94.14	186.43	10.36
		TK1	TK2	TIJK	ŷIJK

The SAS System 18:13 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 18:13 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	10.49609444	0.95419040	3.26	0.0794
Error	6	1.75526667	0.29254444		
Corrected Total	17	12.25136111			

R-Square	Coeff Var	Root MSE	agr Mean
0.856729	5.222190	0.540874	10.35722

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	3.57521111	1.78760556	6.11	0.0357
blk	1	0.19427222	0.19427222	0.66	0.4463
p*blk	2	0.62601111	0.31300556	1.07	0.4005
t	2	4.66321111	2.33160556	7.97	0.0205
p*t	4	1.43738889	0.35934722	1.23	0.3906

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	3.57521111	1.78760556	5.71	0.1490
blk	1	0.19427222	0.19427222	0.62	0.5133

The SAS System 18:13 Thursday, November 23, 2013 3

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	0.313006

Critical Value of t 4.30265
Least Significant Difference 1.3898

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	10.9033	6	P2
A			
A	10.3567	6	P1
A			
A	9.8117	6	P0

The SAS System 18:13 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 0.292544
Critical Value of t 2.44691
Least Significant Difference 0

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	11.0467	6	T2
B	10.1917	6	T1
B			
B	9.8333	6	T0

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The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	9.3600000	0.09899495
P0	T1	2	9.7900000	0.70710678
P0	T2	2	10.2850000	0.20506097
P1	T0	2	9.5700000	0.60811183
P1	T1	2	10.5700000	0.80610173
P1	T2	2	10.9300000	0.09899495
P2	T0	2	10.5700000	0.80610173
P2	T1	2	10.2150000	0.50204581
P2	T2	2	11.9250000	0.30405592

Lampiran 3 Hasil pengamatan rataan diameter batang

a. Diameter Batang 3 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	2.61	2.76	5.37	2.69
	T1	2.79	2.76	5.54	2.77
	T2	2.79	3.49	6.27	3.14
P1	T0	2.61	2.67	5.29	2.64
	T1	2.80	2.87	5.67	2.84
	T2	3.06	3.36	6.41	3.21
P2	T0	2.43	2.29	4.71	2.36
	T1	2.63	2.93	5.56	2.78
	T2	2.84	3.59	6.43	3.21
TOTAL KELOMPOK		24.56	26.70	51.26	2.85
		TK1	TK2	TIJK	ŷIJK

The SAS System 18:21 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 18:21 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	1.61907778	0.14718889	2.45	0.1417
Error	6	0.36110000	0.06018333		
Corrected Total	17	1.98017778			

R-Square	Coeff Var	Root MSE	agr Mean
0.817643	8.611179	0.245323	2.848889

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.03914444	0.01957222	0.33	0.7344
blk	1	0.25920000	0.25920000	4.31	0.0833
p*blk	2	0.02170000	0.01085000	0.18	0.8394
t	2	1.20267778	0.60133889	9.99	0.0123
p*t	4	0.09635556	0.02408889	0.40	0.8027

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.03914444	0.01957222	1.80	0.3566
blk	1	0.25920000	0.25920000	23.89	0.0394

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2

Error Mean Square 0.01085
Critical Value of t 4.30265
Least Significant Difference 0.2588
Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	2.89500	6	P1
A			
A	2.86667	6	P0
A			
A	2.78500	6	P2

The SAS System 18:21 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 0.060183
Critical Value of t 2.44691
Least Significant Difference 0.3466

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	3.1883	6	T2
B	2.7967	6	T1
B			
B	2.5617	6	T0

The SAS System 18:21 Thursday, November 23, 2013 5

The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	2.68500000	0.10606602
P0	T1	2	2.77500000	0.02121320
P0	T2	2	3.14000000	0.49497475
P1	T0	2	2.64000000	0.04242641
P1	T1	2	2.83500000	0.04949747
P1	T2	2	3.21000000	0.21213203
P2	T0	2	2.36000000	0.09899495
P2	T1	2	2.78000000	0.21213203
P2	T2	2	3.21500000	0.53033009

b. Diameter Batang 5 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	4.19	3.91	8.10	4.05
	T1	4.16	4.63	8.79	4.39
	T2	5.10	4.63	9.73	4.86
P1	T0	4.41	4.67	9.09	4.54
	T1	4.49	4.80	9.29	4.64
	T2	4.80	5.01	9.81	4.91
P2	T0	4.31	5.44	9.76	4.88
	T1	4.80	5.24	10.04	5.02
	T2	5.06	6.11	11.17	5.59
TOTAL KELOMPOK		41.31	44.46	85.77	4.77
		TK1	TK2	TIJK	ŷIJK

The SAS System 18:50 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 18:50 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	4.24307778	0.38573434	5.90	0.0202
Error	6	0.39196667	0.06532778		
Corrected Total	17	4.63504444			

R-Square	Coeff Var	Root MSE	agr Mean
0.915434	5.364592	0.255593	4.764444

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	1.61097778	0.80548889	12.33	0.0075
blk	1	0.54080000	0.54080000	8.28	0.0282
p*blk	2	0.71773333	0.35886667	5.49	0.0441
t	2	1.24514444	0.62257222	9.53	0.0137
p*t	4	0.12842222	0.03210556	0.49	0.7437

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	1.61097778	0.80548889	2.24	0.3082
blk	1	0.54080000	0.54080000	1.51	0.3445

The SAS System 18:50 Thursday, November 23, 2013 3

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2

Error Mean Square	0.358867
Critical Value of t	4.30265
Least Significant Difference	1.4881

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	5.1600	6	P2
A			
A	4.6967	6	P1
A			
A	4.4367	6	P0

The SAS System 18:50 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	0.065328
Critical Value of t	2.44691
Least Significant Difference	0.3611

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	5.1183	6	T2
B	4.6867	6	T1
B			
B	4.4883	6	T0

The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	4.05000000	0.19798990
P0	T1	2	4.39500000	0.33234019
P0	T2	2	4.86500000	0.33234019
P1	T0	2	4.54000000	0.18384776
P1	T1	2	4.64500000	0.21920310
P1	T2	2	4.90500000	0.14849242
P2	T0	2	4.87500000	0.79903066
P2	T1	2	5.02000000	0.31112698
P2	T2	2	5.58500000	0.74246212

c. Diameter Batang 7 MST

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	5.81	5.80	11.61	5.81
	T1	6.43	6.07	12.50	6.25
	T2	6.63	6.63	13.26	6.63
P1	T0	5.53	5.51	11.04	5.52
	T1	5.53	6.24	11.77	5.89
	T2	6.36	7.10	13.46	6.73
P2	T0	6.33	6.50	12.83	6.42
	T1	6.50	7.00	13.50	6.75
	T2	7.00	7.28	14.28	7.14
TOTAL KELOMPOK		56.12	58.14	114.26	6.35
		TK1	TK2	TIJK	ŷIJK

The SAS System 18:50 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 18:50 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	4.96046111	0.45095101	10.59	0.0044
Error	6	0.25550000	0.04258333		
Corrected Total	17	5.21596111			

R-Square	Coeff Var	Root MSE	agr Mean
0.951016	3.251143	0.206357	6.347222

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	1.69684444	0.84842222	19.92	0.0022
blk	1	0.22445000	0.22445000	5.27	0.0615
p*blk	2	0.28960000	0.14480000	3.40	0.1030
t	2	2.56374444	1.28187222	30.10	0.0007
p*t	4	0.18582222	0.04645556	1.09	0.4392

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	1.69684444	0.84842222	5.86	0.1458
blk	1	0.22445000	0.22445000	1.55	0.3392

The SAS System 18:50 Thursday, November 23, 2013 3

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2

Error Mean Square	0.1448
Critical Value of t	4.30265
Least Significant Difference	0.9453

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	6.7683	6	P2
A			
A	6.2283	6	P0
A			
A	6.0450	6	P1

The SAS System 18:50 Thursday, November 23, 2013 4

The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	6
Error Mean Square	0.042583
Critical Value of t	2.44691
Least Significant Difference	0.2915

Means with the same letter are not significantly different.

t Grouping	Mean	N	t

A	6.8333	6	T2
B	6.2950	6	T1
C	5.9133	6	T0

The SAS System 18:50 Thursday, November 23, 2013 5

The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	5.80500000	0.00707107
P0	T1	2	6.25000000	0.25455844
P0	T2	2	6.63000000	0.00000000
P1	T0	2	5.52000000	0.01414214
P1	T1	2	5.88500000	0.50204581
P1	T2	2	6.73000000	0.52325902
P2	T0	2	6.41500000	0.12020815
P2	T1	2	6.75000000	0.35355339
P2	T2	2	7.14000000	0.19798990

Lampiran 4 Hasil pengamatan rataan berat tongkol

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	221.43	200.71	422.14	211.07
	T1	265.00	247.86	512.86	256.43
	T2	310.00	265.00	575.00	287.50
P1	T0	233.57	216.43	450.00	225.00
	T1	280.00	240.71	520.71	260.36
	T2	297.86	287.14	585.00	292.50
P2	T0	263.14	240.71	503.86	251.93
	T1	307.14	269.29	576.43	288.2143
	T2	325.71	317.43	643.14	321.57
TOTAL KELOMPOK		2503.86	2285.29	4789.14	266.06
		TK1	TK2	TIJK	ŷIJK

The SAS System 20:01 Thursday, November 23, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

The SAS System 20:01 Thursday, November 23, 2013 2

The ANOVA Procedure

Dependent Variable: agr

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	22210.94349	2019.17668	18.00	0.0010
Error	6	673.16367	112.19394		
Corrected Total	17	22884.10716			

R-Square	Coeff Var	Root MSE	agr Mean
0.970584	3.981077	10.59216	266.0628

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	4209.11914	2104.55957	18.76	0.0026
blk	1	2654.04694	2654.04694	23.66	0.0028
p*blk	2	25.18234	12.59117	0.11	0.8957
t	2	15251.15901	7625.57951	67.97	<.0001
p*t	4	71.43606	17.85901	0.16	0.9516

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	4209.119144	2104.559572	167.15	0.0059
blk	1	2654.046939	2654.046939	210.79	0.0047

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The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2

Error Mean Square 12.59117
Critical Value of t 4.30265
Least Significant Difference 8.8147

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	287.237	6	P2
B	259.285	6	P1
B			
B	251.667	6	P0

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The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 112.1939
Critical Value of t 2.44691
Least Significant Difference 14.964

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	300.523	6	T2
B	268.333	6	T1
C	229.332	6	T0

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The ANOVA Procedure

Level of p	Level of t	N	agr---------- Mean	agr---------- Std Dev
P0	T0	2	211.070000	14.6512525
P0	T1	2	256.430000	12.1198102
P0	T2	2	287.500000	31.8198052
P1	T0	2	225.000000	12.1198102
P1	T1	2	260.355000	27.7822254
P1	T2	2	292.500000	7.5801847
P2	T0	2	251.925000	15.8604051
P2	T1	2	288.215000	26.7639917
P2	T2	2	321.570000	5.8548441

Lampiran 5 Hasil pengamatan rataan panjang tongkol

FAKTOR A	FAKTOR B	ULANGAN		TOTAL AB	RATA AB
(PUPUK PHONSKA)	(BOKASI ECENG GONDOK)	1	2		
P0	T0	15.29	16.00	31.29	15.64
	T1	16.71	17.86	34.57	17.29
	T2	19.71	18.71	38.43	19.21
P1	T0	17.14	16.00	33.14	16.57
	T1	17.86	17.29	35.14	17.57
	T2	18.57	18.71	37.29	18.64
P2	T0	17.57	17.43	35.00	17.50
	T1	18.71	19.57	38.29	19.14
	T2	20.71	20.14	40.86	20.43
TOTAL KELOMPOK		162.29	161.71	324.00	18.00
		TK1	TK2	TIJK	ŷIJK

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The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
t	3	T0 T1 T2
blk	2	1 2

Number of Observations Read 18
Number of Observations Used 18

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The ANOVA Procedure

Dependent Variable: agr

nSource	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	35.71121111	3.24647374	8.70	0.0075
Error	6	2.23956667	0.37326111		
Corrected Total	17	37.95077778			

R-Square	Coeff Var	Root MSE	agr Mean
0.940988	3.394382	0.610951	17.99889

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	9.55334444	4.77667222	12.80	0.0068
blk	1	0.01742222	0.01742222	0.05	0.8361
p*blk	2	0.52041111	0.26020556	0.70	0.5343
t	2	24.42454444	12.21227222	32.72	0.0006
p*t	4	1.19548889	0.29887222	0.80	0.5665

Tests of Hypotheses Using the Anova MS for p*blk as an Error Term

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	9.55334444	4.77667222	18.36	0.0517
blk	1	0.01742222	0.01742222	0.07	0.8200

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The ANOVA Procedure

t Tests (LSD) for agr

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	0.260206

Critical Value of t 4.30265
Least Significant Difference 1.2672

Means with the same letter are not significantly different.

t Grouping	Mean	N	p
A	19.0217	6	P2
B	17.5950	6	P1
B			
B	17.3800	6	P0

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The ANOVA Procedure

t Tests (LSD) for agr
NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha 0.05
Error Degrees of Freedom 6
Error Mean Square 0.373261
Critical Value of t 2.44691
Least Significant Difference 0.8631

Means with the same letter are not significantly different.

t Grouping	Mean	N	t
A	19.4250	6	T2
B	18.0000	6	T1
C	16.5717	6	T0

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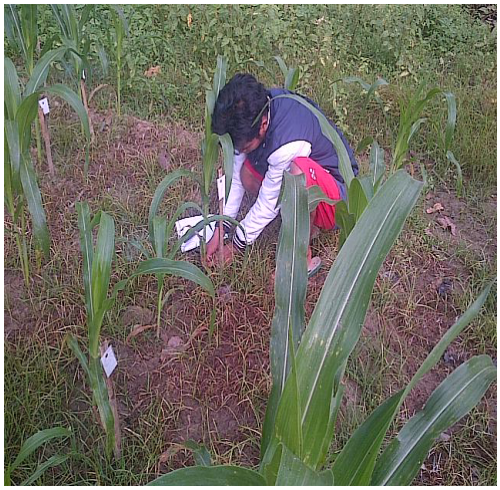
The ANOVA Procedure

Level of p	Level of t	N	agr Mean	agr Std Dev
P0	T0	2	15.6450000	0.50204581
P0	T1	2	17.2850000	0.81317280
P0	T2	2	19.2100000	0.70710678
P1	T0	2	16.5700000	0.80610173
P1	T1	2	17.5750000	0.40305087
P1	T2	2	18.6400000	0.09899495
P2	T0	2	17.5000000	0.09899495
P2	T1	2	19.1400000	0.60811183
P2	T2	2	20.4250000	0.40305087

KEGIATAN DI LOKASI PENELITIAN

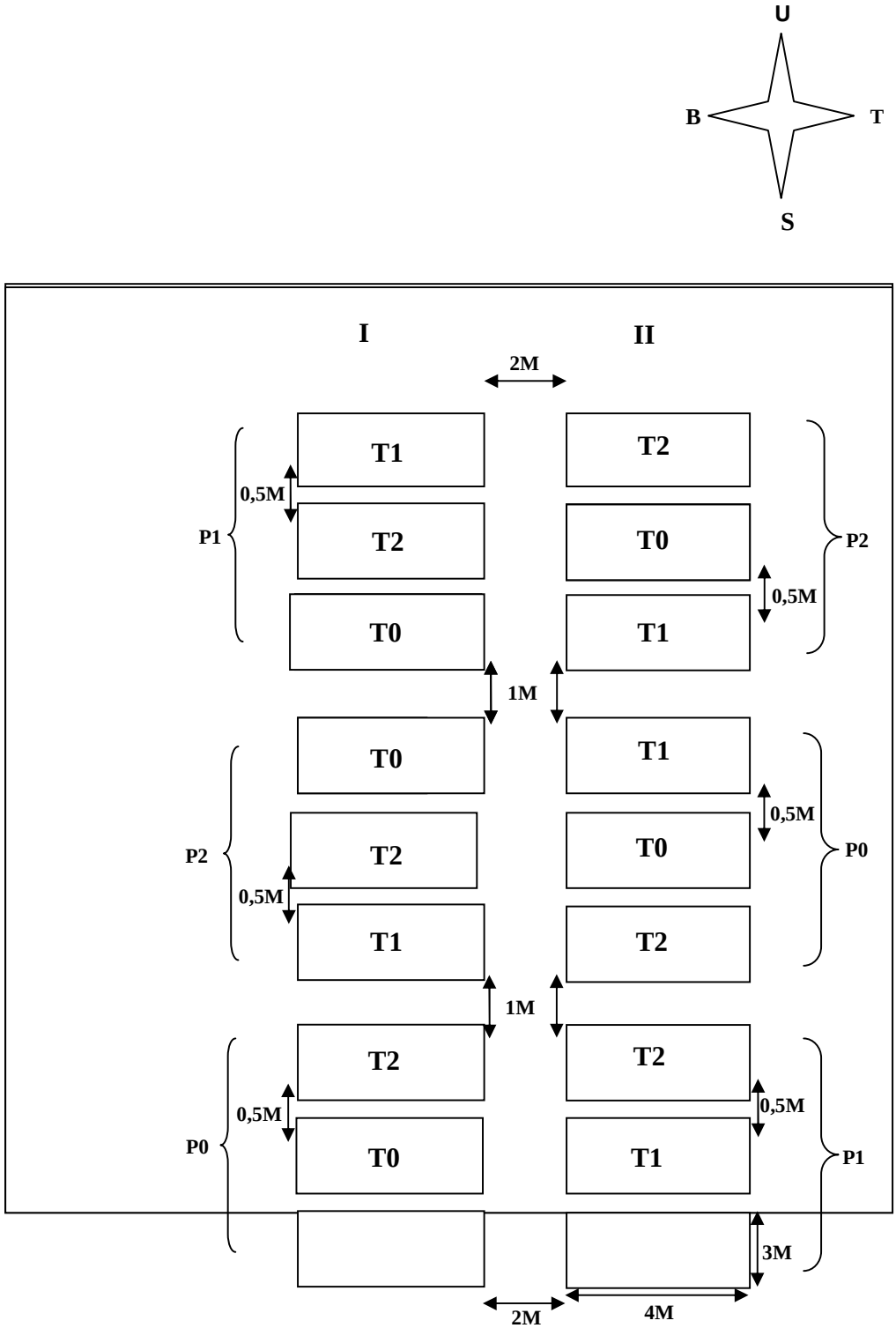

1555



Lampiran 7 Lay Out / Tata Letak Penelitian

Tata letak setiap kombinasi perlakuan dalam penelitian ini adalah sebagai berikut:



DAFTAR PUSTAKA

Hasil Analisis Tanah Desa Miranti Kecamatan Tapa Kabupaten Bonebolango Provinsi Gorontalo

Desa Miranti, Kecamatan Tapa, Kabupaten Bonebolango

No	Parameter	Hasil Analisis tanah	Kriteria
1	Kadar Air	4,60	-
2	C – Organik (%)	0,57	Rendah
3	N – Total	0,10	Sangat rendah
4	Ratio C/N	6	Rendah
5	P2O5 – Olsen (ppm)	19	Sangat rendah
6	K2O (ppm)	40	Sedang

Sumber : PT. PG. Gorontalo-PG Tolangohula 2013

DESKRIPSI JAGUNG MANIS VARIETAS BONANZA

Asal	:East Weast Seed Thailand
Silsilah	: G-126 (F) X G-133 (M)
Golongan Varietas	: Hibrida Silang Tunggal
Bentuk Tanaman	: Tegak
Tinggi Tanaman	: 220-250 cm
Kekuatan akar pada tanaman dewasa	: Kuat
Ketahanan terhadap kerebahan	: Tahan
Bentuk penampang batang	: Bulat
Diameter Batang	: 2,0-3,0 cm
Warna batang	: Hijau
Ruas pembuahan	: 5-6 ruas
Bentuk daun	: panjang agak tegak
Ukuran daun	: panjang 85,0-95,0 cm, lebar 8,5-10,0 cm
Tepi daun	: rata
Bentuk ujung daun	: lancip
Warna daun	: hijau tua
Permukaan daun	: berbulu
Bentuk malai (tassel)	: tegak bersusun
Warna malai(anther)	: putih bening
Warna rambut	: hijau muda
Umur mulai keluar bunga betina	: 55-60 HST
Umur panen	: 70-75 HST
Bentuk tongkol	: silindris
Ukuran tongkol	: panjang 20,0-22,0 cm, diameter 5,3-5,5 cm
Berat per tongkol dengan kelobot	: 467-495 g
Berat per tongkol tanpa kelobot	: 300-325 g
Jumlah tongkol per tanaman	: 1-2 tongkol

Tinggi tongkol dari permukaan tanah: 80-115 cm

Warna kelobot : hijau

Baris biji : rapat

Warna biji : kuning

Tesktur biji : halus

Rasa biji : manis

Kadar gula : 13-15 brix

Jumlah baris biji : 16-18 baris

Berat 1.000 biji : 175-200 g

Daya simpan tongkol dengan kelobot

pada suhu kamar(siang 29-31^{0}c malam 25 27^0 c) : 30-4 hari setelah panen

Hasil tongkol dengan kelobot : 33,0-34,5 ton/ha

Jumlah populasi per hektar : 53.000 tanaman (2 benih per lubang)

Kebutuhan benih per hektar : 9,4 - 10,6 g

Keterangan : beradaptasi baik di dataran tinggi dengan altitude 900-1.200 mdpl

Pengusul : PT East Weast Seed Indonesia

Peneliti : Jim Lothlop (East Weast Seed Thailand), Tukiman Misidi dan Abdul Kohar (PT East Weast Seed Indonesia)