

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **5.1. Kesimpulan**

1. Varietas Bonanza berkontribusi pada peningkatan parameter tinggi tanaman 4 MST sebesar 87,05 dan 5 MST sebesar 160,55 cm ; jumlah daun 3 MST sebesar 8,79 helai.
2. Pemupukan 200 kg phonska kg/ha berkontribusi & efisiensi pada peningkatan tinggi tanaman pada 2, 4 dan 5 MST. Jumlah daun pada 3 dan 4 MST. Panjang tongkol sebesar 21,36 cm, dan berat tongkol 287,23 gram.
3. Interaksi varietas Bonanza dan Pemupukan 100 Kg/Ha berkontribusi pada tinggi tanaman 3 MST sebesar 53,37 cm

#### **5.2. Saran**

Penelitian ini disarankan untuk ditindaklanjuti dengan penelitian selanjutnya menggunakan varietas yang tepat dan pemupukan phonska guna untuk peningkatan hasil tanaman jagung manis.

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**Lampiran 1.a. Analisis Sidik Ragam Tinggi Tanaman 2 MST**

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	18,00	17,60	21,20	56,80	18,93
	P1	20,50	19,00	21,30	60,80	20,27
	P2	22,80	20,90	22,20	65,90	21,97
	P3	21,70	23,90	19,20	64,80	21,60
V2	P0	18,90	18,20	18,40	55,50	18,50
	P1	20,70	21,40	18,40	60,50	20,17
	P2	21,20	22,1	22,20	65,50	21,83
	P3	24,10	24,50	21,50	70,10	23,37
		167,90	167,60	164,40	499,90	20,83
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{499,90^2}{3 \times 8} \\
 \text{FK} &= 10412,50 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (18,00)^2 + (17,00)^2 + \dots + (21,50)^2 - 10412,50 \\
 \text{JK Total} &= 91,89 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(167,90^2) + (167,60^2) + (164,40^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 0,94 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(56,80)^2 + (60,80)^2 + \dots + (70,10^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 57,33 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 91,89 - 0,94 - 57,33 \\
 \text{JK Galat} &= 33,62
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	56,8	55,5	112,30	56,15
P1	60,8	60,5	121,30	60,65
P2	65,9	65,5	131,40	65,70



P3	64,8	70,1	134,90	67,45
<b>TOTAL A</b>	<b>248,30</b>	<b>251,60</b>	499,90	-
<b>RATA A</b>	<b>62,08</b>	<b>62,90</b>	-	62,49

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(248,30^2) + (251,60^2) - 10412,50}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,45$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(112,30^2) + (121,30^2) + (131,40^2) + (121,30134,90^2) - 10412,50}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 52,32$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 57,33 - 0,45 - 52,32 \end{aligned}$$

$$\text{JK Interaksi AB} = 4,55$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0,94	0,47	0,168	3,88
<b>KOMBINASI V DAN P</b>	7	57,33	8,19	2,923	2,92
VARIETAS	1	0,45	0,45	0,16	4,75
PEMUPUKAN	3	52,32	17,44	<b>6,23</b>	3,49
INTERAKSI	2	4,55	2,28	0,812	3,88
<b>GALAT</b>	12	33,62	2,80		
<b>TOTAL</b>	23	<b>91,89</b>			

Koefisien Keragaman = 8,04 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 2,80}{3 \times 2}} \\ &= 2,106 \end{aligned}$$

**Lampiran 1.b. Analisis Sidik Ragam Tinggi Tanaman 3 MST**

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	40,20	33,90	29,30	103,40	34,47
	P1	32,30	38,90	39,30	110,50	36,83
	P2	38,40	40,10	40,50	119,00	39,67
	P3	43,20	41,00	36,80	121,00	40,33
V2	P0	43,80	41,70	38,40	123,90	41,30
	P1	51,80	59,30	49,00	160,10	53,37
	P2	47,40	52,20	49,10	148,70	49,57
	P3	35,30	41,60	33,10	110,00	36,67
		332,40	348,70	315,50	996,60	41,53
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{996,60^2}{3 \times 8} \\
 \text{FK} &= 41383,82 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (40,20)^2 + (33,90)^2 + \dots + (33,10)^2 - 41383,82 \\
 \text{JK Total} &= 1152,51 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(332,40^2) + (348,70^2) + (315,50^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 68,90 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(103,40)^2 + (110,50)^2 + \dots + (110,00^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 915,76 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 1152,51 - 68,90 - 915,76 \\
 \text{JK Galat} &= 167,85
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	103,4	123,9	227,30	113,65
P1	110,5	160,1	270,60	135,30
P2	119	148,7	267,70	133,85
P3	121	110	231,00	115,50
<b>TOTAL A</b>	<b>453,90</b>	<b>542,70</b>	996,60	-

<b>RATA A</b>	<b>113,48</b>	<b>135,68</b>	<b>-</b>	<b>124,58</b>
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$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(453,90^2) + (542,70^2) - 41383,82}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 328,56$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(227,30^2) + (270,60^2) + (267,70^2) + (231,00^2) - 41383,82}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 268,51$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 915,76 - 328,56 - 268,51 \end{aligned}$$

$$\text{JK Interaksi AB} = 318,69$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	68,90	34,45	2,463	3,88
<b>KOMBINASI V DAN P</b>	7	915,76	130,82	9,353	2,92
<b>VARIETAS</b>	1	328,56	328,56	<b>23,490</b>	4,75
<b>PEMUPUKAN</b>	3	268,51	89,50	<b>6,399</b>	3,49
<b>INTERAKSI</b>	2	318,69	159,34	<b>11,392</b>	3,88
<b>GALAT</b>	12	167,85	13,99		
<b>TOTAL</b>	23	<b>1152,51</b>			

Koefisien Keragaman = 9,01 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Interaksi)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 13,99}{3}} \\ &= 6,654 \end{aligned}$$

## Lampiran 1.c. Analisis Sidik Ragam Tinggi Tanaman 4 MST

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	67,20	60,20	65,30	192,70	64,23
	P1	62,30	79,10	61,60	203,00	67,67
	P2	83,00	81,80	81,50	246,30	82,10
	P3	71,80	76,20	80,90	228,90	76,30
V2	P0	90,20	82,70	68,40	241,30	80,43
	P1	98,20	79,50	92,20	269,90	89,97
	P2	88,20	95,20	91,40	274,80	91,60
	P3	92,80	81,60	84,20	258,60	86,20
		653,70	636,30	625,50	1915,50	79,81
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{1915,50^2}{3 \times 8} \\
 \text{FK} &= 152880,84 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (67,20)^2 + (60,20)^2 + \dots + (84,20)^2 - 152880,84 \\
 \text{JK Total} &= 2859,27 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(653,70^2) + (636,30^2) + (625,50^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 50,61 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(192,70)^2 + (203,00)^2 + \dots + (258,60^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 2073,12 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 2859,27 - 50,61 - 2073,12 \\
 \text{JK Galat} &= 735,54
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	192,7	241,3	434,00	217,00

P1	203	269,9	472,90	236,45
P2	246,3	274,8	521,10	260,55
P3	228,9	258,6	487,50	243,75
<b>TOTAL A</b>	<b>870,90</b>	<b>1044,60</b>	1915,50	-
<b>RATA A</b>	<b>217,73</b>	<b>261,15</b>	-	239,44

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(870,90^2) + (1044,60^2) - 152880,84}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1257,15$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(434,00^2) + (472,90^2) + (521,10^2) + (487,50^2) - 152880,84}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 651,13$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 2073,12 - 1257,15 - 651,13 \end{aligned}$$

$$\text{JK Interaksi AB} = 164,83$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	50,61	25,31	0,413	3,88
<b>KOMBINASI V DAN P</b>	7	2073,12	296,16	4,832	2,92
VARIETAS	1	1257,15	1257,15	<b>20,510</b>	4,75
PEMUPUKAN	3	651,13	217,04	<b>3,541</b>	3,49
INTERAKSI	2	164,83	82,42	1,345	3,88
<b>GALAT</b>	12	735,54	61,29		
<b>TOTAL</b>	23	<b>2859,27</b>			

Koefisien Keragaman = 9,81 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Pemupukan}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 61,29}{3 \times 4}} \\ &= 6,965 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Varietas}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 61,29}{3 \times 2}} \\ &= 9,849 \end{aligned}$$

**Lampiran 1.d. Analisis Sidik Ragam Tinggi Tanaman 5 MST**

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	124,20	117,30	142,70	384,20	128,07
	P1	153,30	151,00	147,10	451,40	150,47
	P2	158,30	160,40	160,70	479,40	159,80
	P3	145,80	154,20	156,70	456,70	152,23
V2	P0	160,20	151,10	153,80	465,10	155,03
	P1	170,10	169,60	162,60	502,30	167,43
	P2	163,40	157,40	172,10	492,90	164,30
	P3	163,80	161,10	141,40	466,30	155,43
		1239,10	1222,10	1237,10	3698,30	154,10
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{3698,30^2}{3 \times 8} \\
 \text{FK} &= 569892,62 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (124,20)^2 + (117,30)^2 + \dots + (141,40)^2 - 569892,62 \\
 \text{JK Total} &= 3954,57 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(1239,10^2) + (1222,10^2) + (1237,10^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 21,58 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(384,20)^2 + (451,40)^2 + \dots + (466,30^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 3034,13 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 3954,57 - 21,58 - 3034,13 \\
 \text{JK Galat} &= 898,86
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	384,2	465,1	849,30	424,65
P1	451,4	502,3	953,70	476,85
P2	479,4	492,9	972,30	486,15
P3	456,7	466,3	923,00	461,50

TOTAL A	1771,70	1926,60	3698,30	-
RATA A	442,93	481,65	-	462,29

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(1771,70^2) + (1926,60^2) - 56892,62}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 999,75$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(849,80^2) + (983,70^2) + (972,80^2) + (923,00^2) - 56892,62}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 1465,79$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 3034,13 - 999,75 - 1465,79 \end{aligned}$$

$$\text{JK Interaksi AB} = 568,59$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	2	21,58	10,79	0,144	3,88
KOMBINASI V DAN P	7	3034,13	433,45	5,787	2,92
VARIETAS	1	999,75	999,75	<b>13,347</b>	4,75
PEMUPUKAN	3	1465,79	488,60	<b>6,523</b>	3,49
INTERAKSI	2	568,59	284,29	3,80	3,88
GALAT	12	898,86	74,90		
<b>TOTAL</b>	<b>23</b>	<b>3954,57</b>			

Koefisien Keragaman = 5,62 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Pemupukan}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 74,90}{3 \times 4}} \\ &= 7,699 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Varietas}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 74,90}{3 \times 2}} \\ &= 10,89 \end{aligned}$$

## Lampiran 1.e. Analisis Sidik Ragam Tinggi Tanaman 6 MST

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	184,00	187,60	187,80	559,40	186,47
	P1	197,5	193,40	196,40	587,30	195,77
	P2	213,40	220,70	210,90	645,00	215,00
	P3	192,90	205,30	211,90	610,10	203,37
V2	P0	181,30	191,40	185,90	558,60	186,20
	P1	217,60	198,60	192,40	608,60	202,87
	P2	137,00	207,20	200,40	544,60	181,53
	P3	217,30	196,00	203,60	616,90	205,63
		1541,00	1600,20	1589,30	4730,50	197,10
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{4730,50^2}{3 \times 8} \\
 \text{FK} &= 932401,26 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (184,00)^2 + (187,60)^2 + \dots + (203,60)^2 - 932401,26 \\
 \text{JK Total} &= 6708,27 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(1541,00^2) + (1600,20^2) + (1589,30^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 248,18 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(559,40)^2 + (587,30)^2 + \dots + (616,90^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 2825,19 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 6708,27 - 248,18 - 2825,19 \\
 \text{JK Galat} &= 3634,90
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	559,4	558,6	1118,00	559,00
P1	587,3	608,6	1195,90	597,95
P2	645	544,6	1189,60	594,80
P3	610,1	616,9	1227,00	613,50



<b>TOTAL A</b>	<b>2401,80</b>	<b>2328,70</b>	4730,50	-
<b>RATA A</b>	<b>600,45</b>	<b>582,18</b>	-	591,31

$$\begin{aligned} \text{JK Varietas} \quad (A) &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(2401,80^2) + (2328,70^2) - 932401,26}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam} \quad (A) = 222,65$$

$$\begin{aligned} \text{JK Pemupukan} \quad (B) &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(1119,0^2) + (1195,90^2) + (1189,60^2) + (1227,00^2) - 932401,26}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan} \quad (B) = 1061,73$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 2825,19 - 222,65 - 10,61 \end{aligned}$$

$$\text{JK Interaksi AB} = 1540,80$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	248,18	124,09	0,410	3,88
<b>KOMBINASI V DAN P</b>	7	2825,19	403,60	1,332	2,92
VARIETAS	1	222,65	222,65	0,735	4,75
PEMUPUKAN	3	1061,73	353,91	1,168	3,49
INTERAKSI	2	1540,80	770,40	2,543	3,88
<b>GALAT</b>	12	3634,90	302,91		
<b>TOTAL</b>	23	<b>6708,27</b>			

Koefisien Keragaman = 8,83 %

**Lampiran 2.a. Analisis Sidik Ragam Jumlah Daun 2 MST**

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	3,40	3,20	4,90	11,50	3,83
	P1	4,70	3,40	4,80	12,90	4,30
	P2	5,60	4,30	5,50	15,40	5,13
	P3	5,60	5,80	3,90	15,30	5,10
V2	P0	4,70	4,10	3,80	12,60	4,20
	P1	5,50	4,60	5,10	15,20	5,07
	P2	4,90	5,00	5,60	15,50	5,17
	P3	5,80	6,00	4,80	16,60	5,53
		40,20	36,40	38,40	115,00	4,79
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{115,00^2}{3 \times 8} \\
 \text{FK} &= 551,04 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (3,40)^2 + (3,20)^2 + \dots + (4,80)^2 - 551,04 \\
 \text{JK Total} &= 15,58 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(40,20^2) + (36,40^2) + (38,40^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 0,90 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(11,50)^2 + (12,90)^2 + \dots + (16,60^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 7,47 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 15,58 - 0,90 - 7,47 \\
 \text{JK Galat} &= 7,21
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	11,5	12,6	24,10	12,05
P1	12,9	15,2	28,10	14,05
P2	15,4	15,5	30,90	15,45
P3	15,3	16,6	31,90	15,95

<b>TOTAL A</b>	<b>55,10</b>	<b>59,90</b>	115,00	-
<b>RATA A</b>	<b>13,78</b>	<b>14,98</b>	-	14,38

$$\text{JK Varietas (A)} = \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}}$$

$$= \frac{(55,10^2) + (59,90^2) - 551,04}{3 \times 4}$$

$$\text{JK Jarak Tanam (A)} = 0,96$$

$$\text{JK Pemupukan (B)} = \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}}$$

$$= \frac{(24,10^2) + (28,10^2) + (28,10^2) + (31,90^2) - 551,04}{3 \times 2}$$

$$\text{JK Pemupukan (B)} = 6,10$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 7,47 - 0,96 - 6,10 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,41$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0,90	0,45	0,752	3,88
<b>KOMBINASI V DAN P</b>	7	7,47	1,07	1,775	2,92
VARIETAS	1	0,96	0,96	1,598	4,75
PEMUPUKAN	3	6,10	2,03	3,383	3,49
INTERAKSI	2	0,41	0,20	0,338	3,88
<b>GALAT</b>	12	7,21	0,60		
<b>TOTAL</b>	23	<b>15,58</b>			

Koefisien Keragaman = 16,18 %

## Lampiran 2.b. Analisis Sidik Ragam Jumlah Daun 3 MST

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	8,40	7,30	7,80	23,50	7,83
	P1	8,20	8,10	8,50	24,80	8,27
	P2	8,20	8,80	8,80	25,80	8,60
	P3	8,90	8,30	7,50	24,70	8,23
V2	P0	8,90	8,50	7,20	24,60	8,20
	P1	9,70	10,00	9,40	29,10	9,70
	P2	9,10	9,70	9,40	28,20	9,40
	P3	7,80	8,80	7,00	23,60	7,87
		69,20	69,50	65,60	204,30	8,51
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{204,30^2}{3 \times 8} \\
 \text{FK} &= 1739,10 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (8,40)^2 + (7,30)^2 + \dots + (7,00)^2 - 1739,10 \\
 \text{JK Total} &= 15,45 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(69,20^2) + (69,50^2) + (65,60^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 1,18 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(23,50)^2 + (24,80)^2 + \dots + (23,60^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 9,96 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 15,45 - 1,18 - 9,96 \\
 \text{JK Galat} &= 4,31
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	23,5	24,6	48,10	24,05
P1	24,8	29,1	53,90	26,95
P2	25,8	28,2	54,00	27,00
P3	24,7	23,6	48,30	24,15

<b>TOTAL A</b>	<b>98,80</b>	<b>105,50</b>	204,30	-
<b>RATA A</b>	<b>24,70</b>	<b>26,38</b>	-	25,54

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(99,80^2) + (105,50^2) - 1739,10}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1,87$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(48,10^2) + (53,90^2) + (54,00^2) + (48,30^2) - 1739,10}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 5,51$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 9,96 - 1,87 - 5,51 \end{aligned}$$

$$\text{JK Interaksi AB} = 2,57$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	1,18	0,59	1,640	3,88
<b>KOMBINASI V DAN P</b>	7	9,96	1,42	3,962	2,92
VARIETAS	1	1,87	1,87	<b>5,209</b>	4,75
PEMUPUKAN	3	5,51	1,84	<b>5,119</b>	3,49
INTERAKSI	2	2,57	1,29	3,585	3,88
<b>GALAT</b>	12	4,31	0,36		
<b>TOTAL</b>	23	<b>15,45</b>			

Koefisien Keragaman = 7,04 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Varietas)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Pemupukan}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 70,36}{3 \times 4}} \\ &= 0,53 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Varietas}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 70,36}{3 \times 2}} \\ &= 0,75 \end{aligned}$$

**Lampiran 2.c. Analisis Sidik Ragam Jumlah Daun 4 MST**

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	10,80	8,60	8,80	28,20	9,40
	P1	10,60	9,90	9,60	30,10	10,03
	P2	11,40	11,60	10,20	33,20	11,07
	P3	10,70	9,30	8,60	28,60	9,53
V2	P0	11,50	9,50	8,20	29,20	9,73
	P1	11,40	11,40	10,50	33,30	11,10
	P2	11,40	11,70	10,50	33,60	11,20
	P3	11,90	10,10	8,60	30,60	10,20
		89,70	82,10	75,00	246,80	10,28
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{246,80^2}{3 \times 8} \\
 \text{FK} &= 2537,93 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (10,80)^2 + (8,60)^2 + \dots + (8,60)^2 - 2537,93 \\
 \text{JK Total} &= 30,73 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(89,70^2) + (82,10^2) + (75,00^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 13,51 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(28,20)^2 + (30,10)^2 + \dots + (30,60^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 11,51 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 30,73 - 13,51 - 11,51 \\
 \text{JK Galat} &= 5,72
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	28,2	29,2	57,40	28,70
P1	30,1	33,3	63,40	31,70
P2	33,2	33,6	66,80	33,40
P3	28,6	30,6	59,20	29,60

TOTAL A	120,10	126,70	246,80	-
RATA A	30,03	31,68	-	30,85

$$\begin{aligned}
 \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\
 &= \frac{(120,10^2) + (126,70^2) - 2537,93}{3 \times 4}
 \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1,82$$

$$\begin{aligned}
 \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\
 &= \frac{(57,40^2) + (63,40^2) + (66,80^2) + (59,20^2) - 1739,10}{3 \times 2}
 \end{aligned}$$

$$\text{JK Pemupukan (B)} = 8,94$$

$$\begin{aligned}
 \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\
 &= 11,51 - 1,82 - 8,94
 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,75$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
KELOMPOK	2	13,51	6,76	14,183	3,88
KOMBINASI V DAN P	7	11,51	1,64	3,451	2,92
VARIETAS	1	1,82	1,82	3,810	4,75
PEMUPUKAN	3	8,94	2,98	<b>6,256</b>	3,49
INTERAKSI	2	0,75	0,38	0,789	3,88
GALAT	12	5,72	0,48		
<b>TOTAL</b>	<b>23</b>	<b>30,73</b>			

Koefisien Keragaman = 6,71 %

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\
 &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\
 &= 2,179 \times \sqrt{\frac{2 \times 0,48}{3 \times 2}} \\
 &= 0,87
 \end{aligned}$$

## Lampiran 2.d. Analisis Sidik Ragam Jumlah Daun 5 MST

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	12,30	10,10	12,50	34,90	11,63
	P1	12,80	11,40	11,60	35,80	11,93
	P2	13,70	12,90	13,00	39,60	13,20
	P3	12,20	12,90	10,50	35,60	11,87
V2	P0	12,50	12,40	9,90	34,80	11,60
	P1	13,50	12,70	12,10	38,30	12,77
	P2	13,80	12,90	12,80	39,50	13,17
	P3	13,90	12,80	11,20	37,90	12,63
		104,70	98,10	93,60	296,40	12,35
	TK	TK1	TK2	TK3	TIJK	ȳIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{296,40^2}{3 \times 8} \\
 \text{FK} &= 3660,54 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (12,30)^2 + (10,10)^2 + \dots + (11,20)^2 - 3660,54 \\
 \text{JK Total} &= 27,12 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(104,70^2) + (98,10^2) + (93,60^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 7,79 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(34,90)^2 + (35,80)^2 + \dots + (37,90^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 9,38 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 27,12 - 7,79 - 9,38 \\
 \text{JK Galat} &= 9,95
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	34,90	34,80	69,70	34,85
P1	35,80	38,30	74,10	37,05
P2	39,60	39,50	79,10	39,55
P3	35,60	37,90	73,50	36,75



<b>TOTAL A</b>	<b>145,90</b>	<b>150,50</b>	296,40	-
<b>RATA A</b>	<b>36,48</b>	<b>37,63</b>	-	37,05

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(145,90^2) + (150,50^2) - 3660,54}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,88$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(69,70^2) + (74,10^2) + (79,10^2) + (73,50^2) - 3660,54}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 7,45$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 9,38 - 0,88 - 7,45 \end{aligned}$$

$$\text{JK Interaksi AB} = 1,04$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	7,79	3,90	4,700	3,88
<b>KOMBINASI V DAN P</b>	7	9,38	1,34	1,616	2,92
VARIETAS	1	0,88	0,88	1,064	4,75
PEMUPUKAN	3	7,45	2,48	2,997	3,49
INTERAKSI	2	1,04	0,52	0,630	3,88
<b>GALAT</b>	12	9,95	0,83		
<b>TOTAL</b>	23	<b>27,12</b>			

Koefisien Keragaman = 7,37 %

## Lampiran 2.e. Analisis Sidik Ragam Jumlah Daun 6 MST

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	13,00	12,40	12,70	38,10	12,70
	P1	13,00	13,80	12,50	39,30	13,10
	P2	13,70	13,50	13,10	40,30	13,43
	P3	13,00	13,90	11,50	38,40	12,80
V2	P0	12,70	12,40	11,00	36,10	12,03
	P1	13,50	12,70	12,80	39,00	13,00
	P2	13,80	13,00	13,00	39,80	13,27
	P3	13,60	13,10	12,10	38,80	12,93
		106,30	104,80	98,70	309,80	12,91
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{309,80^2}{3 \times 8} \\
 \text{FK} &= 3999,00 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (13,00)^2 + (12,40)^2 + \dots + (12,10)^2 - 3999,00 \\
 \text{JK Total} &= 11,60 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(106,30^2) + (104,80^2) + (98,70^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 4,05 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(38,10)^2 + (39,30)^2 + \dots + (38,80^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 3,81 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 11,60 - 4,05 - 3,81 \\
 \text{JK Galat} &= 3,74
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	38,1	36,1	74,20	37,10
P1	39,3	39	78,30	39,15
P2	40,3	39,8	80,10	40,05
P3	38,4	38,8	77,20	38,60

<b>TOTAL A</b>	<b>156,10</b>	<b>153,70</b>	309,80	-
<b>RATA A</b>	<b>39,03</b>	<b>38,43</b>	-	38,73

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(156,10^2) + (153,70^2) - 3999,00}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,24$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(74,20^2) + (78,30^2) + (80,10^2) + (77,20^2) - 3999,00}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 3,06$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 3,81 - 0,24 - 3,06 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,51$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	4,05	2,03	6,506	3,88
<b>KOMBINASI V DAN P</b>	7	3,81	0,54	1,749	2,92
VARIETAS	1	0,24	0,24	0,771	4,75
PEMUPUKAN	3	3,06	1,02	3,278	3,49
INTERAKSI	2	0,51	0,26	0,819	3,88
<b>GALAT</b>	12	3,74	0,31		
<b>TOTAL</b>	23	<b>11,60</b>			

Koefisien Keragaman = 4,32 %

### Lampiran 3. Analisis Sidik Ragam PanjangTongkol Tanaman Jagung

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	19,50	20,30	20,00	59,80	19,93
	P1	20,50	20,50	20,80	61,80	20,60
	P2	21,65	21,30	21,20	64,15	21,38
	P3	21,75	21,40	21,30	64,45	21,48
V2	P0	20,00	19,40	20,10	59,50	19,83
	P1	20,75	20,60	20,45	61,80	20,60
	P2	20,90	21,60	21,50	64,00	21,33
	P3	21,40	21,60	21,50	64,50	21,50
		166,45	166,70	166,85	500,00	20,83
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{500^2}{3 \times 8} \\
 \text{FK} &= 10416,67 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (19,50)^2 + (20,30)^2 + \dots + (21,50)^2 - 10416,67 \\
 \text{JK Total} &= 11,26 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(166,45^2) + (166,70^2) + (166,85^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 0,01 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(59,80)^2 + (61,80)^2 + \dots + (64,50^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 10,01 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 11,26 - 0,01 - 10,01 \\
 \text{JK Galat} &= 1,24
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	59,8	59,5	119,30	59,65
P1	61,8	61,8	123,60	61,80
P2	64,15	64	128,15	64,08
P3	64,45	64,5	128,95	64,48

<b>TOTAL A</b>	250,20	249,80	500,00	-
<b>RATA A</b>	62,55	62,45	-	62,50

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(250,20^2) + (249,80^2) - 10416,67}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,01$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(119,80^2) + (123,60^2) + (128,15^2) + (123,95^2) - 10416,67}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 10,00$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 10,01 - 0,01 - 10,00 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,01$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0,01	0,01	0,049	3,88
<b>KOMBINASI V DAN P</b>	7	10,01	1,43	13,867	2,92
VARIETAS	1	0,01	0,01	0,065	4,75
PEMUPUKAN	3	10,00	3,33	<b>32,293</b>	3,49
INTERAKSI	2	0,01	0,01	0,061	3,88
<b>GALAT</b>	12	1,24	0,10		
<b>TOTAL</b>	23	<b>11,26</b>			

Koefisien Keragaman = 1,54 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 0,01}{3 \times 2}} \\ &= 0,40 \end{aligned}$$

#### Lampiran 4. Analisis Sidik Ragam Berat Tongkol Tanaman Jagung

FAKTOR A (VARIETAS)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
V1	P0	267,00	264,10	250,50	781,60	260,53
	P1	287,50	279,50	261,50	828,50	276,17
	P2	284,90	287,00	272,50	844,40	281,47
	P3	288,00	301,50	284,50	874,00	291,33
V2	P0	265,00	249,00	251,50	765,50	255,17
	P1	278,00	282,50	281,00	841,50	280,50
	P2	290,00	295,50	293,50	879,00	293,00
	P3	293,00	302,00	298,50	893,50	297,83
		2253,40	2261,10	2193,50	6708,00	279,50
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{6708,00^2}{3 \times 8} \\
 \text{FK} &= 1874886,00 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (267,00)^2 + (264,10)^2 + \dots + (298,50)^2 - 1874886,00 \\
 \text{JK Total} &= 5887,82 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{V} \times \text{P}} - \text{FK} \\
 &= \frac{(2253,40^2) + (2261,10^2) + (2193,50^2)}{2 \times 4} \\
 \text{JK Kelompok} &= 342,38 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(781,69)^2 + (828,50)^2 + \dots + (893,50^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 4878,64 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 5887,82 - 342,38 - 4878,64 \\
 \text{JK Galat} &= 666,80
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (VARIETAS)		TOTAL B	RATA B
	V1	V2		
P0	781,60	765,50	1547,10	773,55
P1	828,50	841,50	1670,00	835,00
P2	844,40	879,00	1723,40	861,70
P3	874,00	893,50	1767,50	883,75

<b>TOTAL A</b>	<b>3328,50</b>	<b>3379,50</b>	<b>6708,00</b>	<b>-</b>
<b>RATA A</b>	<b>832,13</b>	<b>844,88</b>	<b>-</b>	<b>838,50</b>

$$\begin{aligned} \text{JK Varietas (A)} &= \frac{(\text{Total Varietas (A)})^2 - \text{FK}}{\text{UL} \times \text{B}} \\ &= \frac{(3328,50^2) + (3379,50^2) - 1874886,00}{3 \times 4} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 108,38$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2 - \text{FK}}{\text{UL} \times \text{A}} \\ &= \frac{(1647,10^2) + (1670,30^2) + (1728,40^2) + (1767,50^2) - 1874886,00}{3 \times 2} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 4544,37$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 4878,64 - 108,38 - 4544,37 \end{aligned}$$

$$\text{JK Interaksi AB} = 225,89$$

Tabel Sidik Ragam

SK	DERAJAT BEBAS	JUMLAH KUADRAT	KUADRAT TENGAH	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	342,38	171,19	3,081	3,88
<b>KOMBINASI V DAN P</b>	7	4878,64	696,95	12,543	2,92
VARIETAS	1	108,38	108,38	1,950	4,75
PEMUPUKAN	3	4544,37	1514,79	<b>27,261</b>	3,49
INTERAKSI	2	225,89	112,95	2,033	3,88
<b>GALAT</b>	12	666,80	55,57		
<b>TOTAL</b>	23	<b>5887,82</b>			

Koefisien Keragaman = 2,67 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= t_{0,05(12)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Varietas}}} \\ &= 2,179 \times \sqrt{\frac{2 \times 55,57}{3 \times 2}} \\ &= 9,378 \end{aligned}$$







### Lampiran 7 : Deskripsi Jagung Manis Varietas Bonanza

Nama	:	Jagung Manis Bonanza
Asal	:	East West Seed Thailand
Golongan varietas	:	Hibrida silang tunggal
Bentuk tanaman	:	Tegak
Tinggi tanaman	:	220 – 250 cm
Kekuatan akar tanaman dewasa	:	Kuat
Ketahanan terhadap kerebahan	:	Tahan
Bentuk penampang batang	:	Bulat
Diameter batang	:	2 – 3 cm
Warna batang	:	Hijau
Ruas pembuahan	:	5 – 6 ruas
Bentuk daun	:	Panjang agak tegak
Ukuran daun	:	Panjang 85 – 95 cm, lebar 8,5 – 10 cm
Tepi daun	:	Rata
Bentuk ujung daun	:	Lancip
Warna daun	:	Hijau tua
Permukaan daun	:	Bebulu
Bentuk malai (tassel)	:	Tegak tersusun
Warna malai (anther)	:	Putih bening
Warna rambut	:	Hijau muda
Umur mulai keluar bunga	:	55 – 60 hari setelah tanam
Umur panen	:	82 – 84 hari setelah tanam
Bentuk tongkol	:	Silindris
Ukuran tongkol	:	Panjang 20 – 22 cm, diameter 5,3 – 5,5 cm
Berat per tongkol dengan kelobot	:	467 – 495 gr
Warna kelobot	:	Hijau
Baris biji	:	Rapat
Warna biji	:	Kuning
Tekstur biji	:	Halus
Rasa biji	:	Manis
Kadar gula	:	13 – 15 °brix
Jumlah baris biji	:	16 – 18 baris
Berat 1000 biji	:	175 – 200 gr
Hasil tongkol dengan	:	33 – 34,5 ton/ha

### Deskripsi Jagung Manis Pertiwi Talenta :

Tanaman kokoh dengan tinggi 170-200 cm, mempunyai ketahanan terhadap penyakit karat dan hawar daun. Ukuran tongkol 22 cm x 6 cm dengan bobot per tongkol rata-rata 310-450 gram. Mulai dapat di panen pada umur 70-76 HST. Biji berwarna kuning, jarak tanam 75 x 25 cm dengan satu biji per lubang tanam, potensi hasil mencapai 18 – 25 ton per hektar dengan kebutuhan benih ± 1750 biji.

### Lampiran 7. Analisis tanah

No	Sifat-Sifat Tanah	Nilai	Kriteria*
1	<i>Fisik Tanah :</i> - Tekstur (%) : Pasir Liat Debu - Kadar Air Kapasitas Lapang (%) Titik Layu Permanen (%) Permeabilitas (cm jam-1)	  63 12 25  37,02 23,40 1,63	      Lambat
2	<i>Kimia Tanah</i> - C-Organik (%) - N Kjeldhal (%) - P <sub>2</sub> O <sub>5</sub> HCl (mg/100 g) - K <sub>2</sub> O HCl 25% (mg/100 g) - pH H <sub>2</sub> O - KTK (cmol kg-1) - Kation Basa : K-dd (cmol kg-1 ) Ca-dd (cmol kg-1) Mg-dd (cmol kg-1) Na-dd (cmol kg-1) - Kejenuhan Basa (%)	 0,96 0,09 13 35 5,8 4,35  0,15 3,87 1,00 0,22 >100	 Sangat Rendah Sangat Rendah Rendah Sedang Agak Masam Sangat Rendah  Sangat Rendah Rendah Rendah Rendah Sangat Tinggi

**Ket** ; Kec Marisa Kab Pohuwato posisi latitude 0°28'02,40" LU, posisi longitude 121°56'51,20" BT, posisi altitude 16 m dpl.

**Lampiran 8. Dokumentasi**



Pembedengan



Persiapan Lahan



Penanaman



Pemupukan





Pengamatan 2 MST



Pengamatan 3 MST



Pengamatan 4 MST



Pengamatan 5 MST



Pengamatan 6 MST