

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **5.1. Kesimpulan**

1. Jarak tanam 25 x 100 cm berkontribusi pada peningkatan parameter tinggi tanaman 14, 21, 28, 35, 42, 49 dan 56 HST, jumlah daun 28, 35, 42, 49 dan 56 HST, panjang tongkol sebesar 18,77 cm, berat tongkol 203,67 g.
2. Pemupukan 200 kg phonska per ha berkontribusi pada peningkatan tinggi tanaman 14, 21 dan 49 HST, jumlah daun 14 dan 28 HST, panjang tongkol sebesar 18,98 cm, berat tongkol 198,27 g.
3. Interaksi antara jarak tanam dan pemupukan phonska pada perlakuan 25 x 100 dan 200 kg phonska berkontribusi hanya pada peningkatan parameter tinggi tanaman 7 HST.

#### **5.2. Saran**

Dari hasil penelitian ini dapat disarankan untuk menindaklanjuti penelitian ini dengan menggunakan perlakuan jarak tanam yang longgar dan pemupukan phonska yang lebih tepat pada tanaman jagung manis guna untuk peningkatan produktivitas tanaman jagung manis.

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## LAMPIRAN

### Lampiran 1. Deskripsi Jagung Manis Varietas Super Sweet

Asal	: Populasi varietas sintetik yang berasal dari Chia Tai Seed Co, Ltd. Thailand kemudian diuji dan dikembangkan di Indonesia oleh PT BISI
Golongan	: Bersari bebas
Umur : 50 % keluar rambut	: 54 hari di dataran rendah 74 hari di dataran tinggi
5 Panen segar	: 72 hari di dataran rendah 107 hari di dataran tinggi
Batang	: Sedang, tegap dan seragam
Warna batang	: Hijau
Tinggi tanaman	: 200 cm
Daun	: Sedang agak terkulai
Warna daun	: Hijau gelap
Keragaman tanaman	: Agak seragam
Perakaran	: Baik
Kerebahan	: Tahan rebah
Bentuk malai	: Besar, terkulai
Warna sekam	: Hijau pucat
Warna anthera	: Kuning pucat
Warna rambut	: Kuning
Ukuran tongkol	: Medium
Tinggi tongkol	: 112 cm
Kelobot	: Menutup biji dengan baik
Warna biji	: Kuning
Baris biji	: Lurus dengan rapat
Jumlah baris/tongkol	: 14 5 16 baris
Rata-rata hasil	: 12,7 ton/ha berkelobot , 9,7 ton/ha tanpa kelobot
Potensi hasil kelobot	: 14,8 ton/ha berkelobot , 11,3 ton/ha tanpa kelobot
Ketahanan terhadap penyakit bulai	: Tahan terhadap karat daun, toleran terhadap bulai
Daerah adaptasi	: Beradaptasi baik didataran rendah maupun didataran tinggi
Peneliti/pengusul	: Putu Darsana, Nasib Wignyo Wibowo dan Setio Giri

**Lampiran 2. Hasil analisis tanah tapak Bone Bolango**

No	Sifat-Sifat Tanah	Nilai	Kriteria*
1	<p><i>Fisik Tanah :</i></p> <ul style="list-style-type: none"> <li>- Tekstur (%) :</li> <li style="padding-left: 20px;">Pasir</li> <li style="padding-left: 20px;">Liat</li> <li style="padding-left: 20px;">Debu</li> <li>- Kadar Air</li> <li style="padding-left: 20px;">Kapasitas Lapang (%)</li> <li style="padding-left: 20px;">Titik Layu Permanen (%)</li> <li style="padding-left: 20px;">Permeabilitas (cm jam-1)</li> </ul>	<ul style="list-style-type: none"> <li style="padding-left: 20px;">54</li> <li style="padding-left: 20px;">21</li> <li style="padding-left: 20px;">25</li> <li>36,43</li> <li>24,72</li> </ul>	
2	<p><i>Kimia Tanah</i></p> <ul style="list-style-type: none"> <li>- C-Organik (%)</li> <li>- N Kjeldhal (%)</li> <li>- P<sub>2</sub>O<sub>5</sub> HCl (mg/100 g)</li> <li>- K<sub>2</sub>O dapat ditukar (me/100 g)</li> <li>- pH H<sub>2</sub>O</li> <li>- KTK (me/100 g)</li> <li>- Kation Basa :</li> <li style="padding-left: 20px;">K-dd (cmol kg-1 )</li> <li style="padding-left: 20px;">Ca-dd (cmol kg-1)</li> <li style="padding-left: 20px;">Mg-dd (cmol kg-1)</li> <li style="padding-left: 20px;">Na-dd (cmol kg-1)</li> <li>- Kejenuhan Basa (%)</li> </ul>	<ul style="list-style-type: none"> <li style="padding-left: 20px;">1,53</li> <li style="padding-left: 20px;">0,11</li> <li style="padding-left: 20px;">21</li> <li style="padding-left: 20px;">78</li> <li style="padding-left: 20px;">6</li> <li style="padding-left: 20px;">13,35</li> <li style="padding-left: 20px;">0,31</li> <li style="padding-left: 20px;">15,02</li> <li style="padding-left: 20px;">5,49</li> <li style="padding-left: 20px;">0,28</li> <li style="padding-left: 20px;">&gt; 100</li> </ul>	<ul style="list-style-type: none"> <li style="padding-left: 20px;">Rendah</li> <li style="padding-left: 20px;">Rendah</li> <li style="padding-left: 20px;">Sedang</li> <li style="padding-left: 20px;">Sangat Tinggi</li> <li style="padding-left: 20px;">Agak masam</li> <li style="padding-left: 20px;">Rendah</li> <li style="padding-left: 20px;">Rendah</li> <li style="padding-left: 20px;">Tinggi</li> <li style="padding-left: 20px;">Tinggi</li> <li style="padding-left: 20px;">Rendah</li> <li style="padding-left: 20px;">Sangat Tinggi</li> </ul>

Keterangan : Desa Tunggulo Kec Tilongkabila Kab Bone Bolango posisi Latitude 0°34'24,68'' LU, posisi Longitude 123°07'58,80'' BT, posisi altitude 70 m dpl

### Lampiran 3. Data Curah Hujan

## P E M E R I K S A A N   H U J A N

### S T A S I U N   M E T E O R O L O G I   J A L A L U D D I N   G O R O N T A L O

T A H U N :   2 0 1 2

T  
K  
L

eriksaan : **BPP SUWAWA**  
 : **SUWAWA**      Tinggi diatas permukaan laut :      10 m  
 at pemeriksaan : : **0.53 N 123.14 E** Kabupaten :      **BONEBOLANGO**

Keterangan:  
 (-) Tidak ada hujan  
 (x) Tidak ada data/ alat rusak  
 (\*) Data belum masuk  
 (0) CH < 0.5 mm / tidak terukur

Hujan dalam milimeter

Bulan Tanggal	Jan	Peb	Mar	Apr	Mei	Jun	Jul	Agu	Sep	Okt	Nop	Des
<b>Jumlah</b>	139	124	239	160	55	45	276	32	0	189	242	
<b>Max</b>	47	38	72	27	30	39	41	14	0	79	71	
<b>HH</b>	15	11	12	20	7	5	20	5	1	12	17	

HH : Jumlah Hari Hujan dalam sebulan

Ket : Data ini hanya dipergunakan untuk kepentingan Penelitian Mahasiswa Universitas Negeri Gorontalo

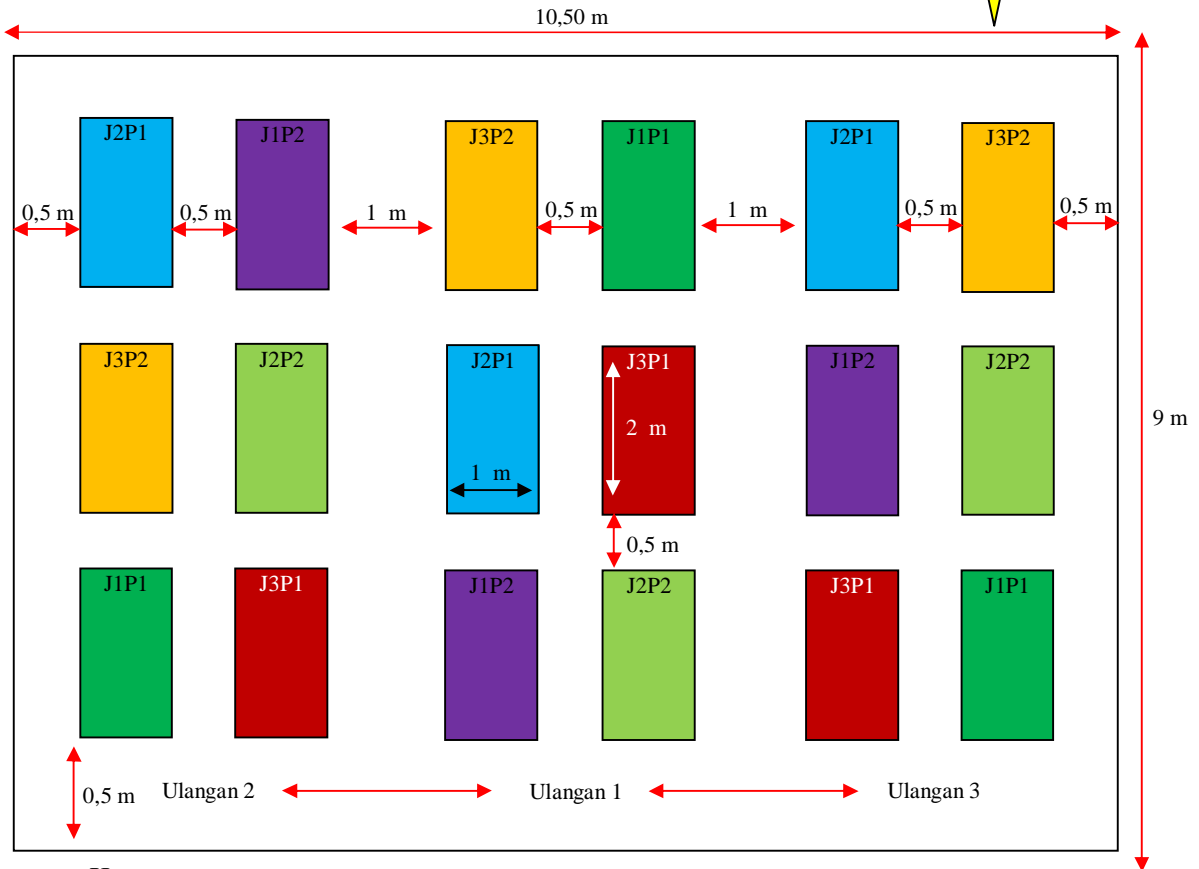
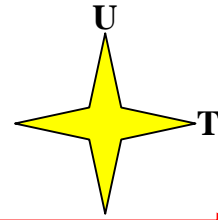


an. Kepala Stasiun Meteorologi  
 Jalaluddin Gorontalo,  
 Pengolah Data

**Fatuhri Syabani**

NIP.197309171994021002

### Lampiran 4. Lay Out/Tata Letak Penelitian



Keterangan :

Panjang lahan penelitian	= 9 m
Lebar lahan penelitian	= 10,50 m
Panjang petak	= 2 m
Lebar petak	= 1 m
Jarak Antar Petak	= 0,5 cm
Jarak Antar Ulangan	= 1 m

### Lampiran 5. Jadwal Penelitian

No	Kegiatan	September			Oktober			November			Desember			Januari		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1.	Proposal															
2.	Persiapan bahan dan alat untuk penelitian															
3.	Pelaksanaan penelitian															
4.	Pengamatan															
5.	Pengolahan data															
6.	Laporan															



**Lampiran 6.a. Analisis Sidik Ragam Tinggi Tanaman 7 HST**

Jarak Tanam (Faktor A)	Pemupukan (Faktor B)	Ulangan			Total AB	Rata
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	5,67	5,67	5,87	17,20	5,73
	P2 (200 kg per ha)	6,13	7,13	7,07	20,33	6,78
J2 (25 x 50 cm)	P1 (100 kg per ha)	6,53	6,20	6,67	19,40	6,47
	P2 (200 kg per ha)	6,60	6,60	7,20	20,40	6,80
J3 (25 x 100 cm)	P1 (100 kg per ha)	6,73	6,67	6,73	20,13	6,71
	P2 (200 kg per ha)	8,87	8,33	7,80	25,00	8,33
		40,53	40,60	41,33	122,47	6,80
TK		TK1	TK2	TK3	TIJK	ŷ <sub>IJK</sub>

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{122,47^2}{3 \times 6} \\
 \text{FK} &= 833,23 \\
 \text{JK Total} &= T(Y_{IJK}^2) - \text{FK} \\
 &= (5,67)^2 + (5,67)^2 + \dots + (7,80)^2 - 833,23 \\
 \text{JK Total} &= 12,40 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{j \times p} - \text{FK} \\
 &= \frac{(40,53^2) + (40,60^2) + (41,33^2)}{3 \times 2} - 833,23 \\
 \text{JK Kelompok} &= 0,07 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(17,20)^2 + (20,33)^2 + \dots + (25,00^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 10,82 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 12,40 - 0,07 - 10,82 \\
 \text{JK Galat} &= 1,51
 \end{aligned}$$

Faktor B (pemupukan)	Faktor A (jarak tanam)			Total B	Rata B
	J1	J2	J3		
P1	17,20	19,40	20,13	56,73	18,91
P2	20,33	20,40	25,00	65,73	21,91
Total A	37,53	39,80	45,13	122,46	-
Rata A	18,77	19,90	22,57	-	20,41

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(37,53^2) + (39,80^2) + (45,13^2) - (833,23)}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 4,98$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(56,73^2) + (65,73^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 4,41$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 10,82 - 4,98 - 4,41 \end{aligned}$$

$$\text{JK Interaksi AB} = 1,43$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.07	0.04	0.23	4.10
<b>KOMBINASI JT DAN P</b>	5	10.82	2.16	14.33	3.33
JARAK TANAM	2	4.98	2.49	16.49*	4.10
PEMUPUKAN	1	4.41	4.41	29.21*	4.96
INTERAKSI	2	1.43	0.72	4.74*	4.10
<b>GALAT</b>	10	1.51	0.15		
<b>TOTAL</b>	17	12.40			

Koefisien Keragaman = 5,71 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \%} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,15}{3}} \end{aligned}$$

$$\text{Uji Lanjut BNT 5 \%} = 0,707$$

**Lampiran 6.b. Analisis Sidik Ragam Tinggi Tanaman 14 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	15.93	15.67	16.87	48.47	16.16
	P2 (200 kg per ha)	17.67	16.47	20.80	54.93	18.31
J2 (25 x 50 cm)	P1 (100 kg per ha)	17.53	16.73	17.60	51.87	17.29
	P2 (200 kg per ha)	17.80	17.27	17.67	52.74	17.58
J3 (25 x 100 cm)	P1 (100 kg per ha)	18.13	19.53	21.07	58.74	19.58
	P2 (200 kg per ha)	20.40	20.47	21.13	62.00	20.67
		107.47	106.13	115.14	328.74	18.26
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{328,74^2}{3 \times 6} \\
 \text{FK} &= 6003,77 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (15,93)^2 + (15,67)^2 + \dots + (21,13)^2 - 6003,77 \\
 \text{JK Total} &= 56,16 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(107,47^2) + (106,13^2) + (115,14^2)}{3 \times 2} - 6003,77 \\
 \text{JK Kelompok} &= 7,87 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(48,47)^2 + (54,93)^2 + \dots + (62,00^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 40,09 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 56,16 - 7,87 - 40,09 \\
 \text{JK Galat} &= 8,20
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	48.47	51.87	58.74	159.08	53.03
P2	54.93	52.74	62.00	169.67	56.56
TOTAL A	<b>103.40</b>	<b>104.61</b>	<b>120.74</b>	<b>328.75</b>	-
RATA A	<b>51.70</b>	<b>52.31</b>	<b>60.37</b>	-	<b>54.79</b>

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(103,40^2)+(104,61^2)+(120,74^2)-(6003,77)}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 31,73$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(159,08^2)+(169,67^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 6,72$$

$$\text{JK Interaksi AB} = \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan}$$

$$= 40,09 - 31,73 - 6,72$$

$$\text{JK Interaksi AB} = 1,65$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	7.87	3.94	4.80	4.10
<b>KOMBINASI JT DAN P</b>	5	40.09	8.02	9.78	3.33
JARAK TANAM	2	31.73	15.87	19.35	4.10
PEMUPUKAN	1	6.72	6.72	8.20	4.96
INTERAKSI	2	1.65	0.83	1.01	4.10
<b>GALAT</b>	10	8.20	0.82		
<b>TOTAL</b>	17	56.16			

Koefisien Keragaman = 4,96 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul x Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul x Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,82}{3 \times 2}} \\ &= 1,165 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul x Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul x Level Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,82}{3 \times 3}} \\ &= 0,951 \end{aligned}$$

**Lampiran 6.c. Analisis Sidik Ragam Tinggi Tanaman 21 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	23.27	22.53	24.93	70.73	23.58
	P2 (200 kg per ha)	25.53	24.40	26.47	76.40	25.47
J2 (25 x 50 cm)	P1 (100 kg per ha)	23.47	24.40	24.53	72.40	24.13
	P2 (200 kg per ha)	25.40	24.60	24.73	74.73	24.91
J3 (25 x 100 cm)	P1 (100 kg per ha)	27.40	27.73	27.20	82.33	27.44
	P2 (200 kg per ha)	29.33	27.93	29.93	87.19	29.06
		154.40	151.59	157.79	463.78	25.77
	TK		TK2	TK3	TIJK	Ŷ <sub>ijk</sub>

$$FK = \frac{TIJK^2}{UL \times PERLAKUAN}$$

$$= \frac{463,78^2}{3 \times 6}$$

$$FK = 11949,38$$

$$JK \text{ Total} = T(Y_{ijk}^2) - FK$$

$$= (23,27)^2 + (22,53^2 + \dots + (29,93)^2) - 11949,38$$

$$JK \text{ Total} = 74,39$$

$$JK \text{ Kelompok} = \frac{TK^2}{J \times P} - FK$$

$$= \frac{(154,40^2) + (151,59^2) + (157,79^2)}{3 \times 2} - 11949,38$$

$$JK \text{ Kelompok} = 3,21$$

$$JK \text{ Kombinasi Perlakuan} = \frac{\text{Total AB}^2}{UL}$$

$$= \frac{(70,73)^2 + (76,40)^2 + \dots + (87,19^2)}{3}$$

$$JK \text{ Kombinasi Perlakuan} = 65,92$$

$$JK \text{ Galat} = JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan}$$

$$= 74,39 - 3,21 - 65,92$$

$$JK \text{ Galat} = 5,25$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	70.73	72.4	82.33	225.46	75.15
P2	76.40	74.73	87.19	238.32	79.44
TOTAL A	<b>147.13</b>	<b>147.13</b>	<b>169.52</b>	<b>463.78</b>	-
RATA A	<b>73.57</b>	<b>73.57</b>	<b>84.76</b>	-	<b>77.30</b>

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(147,13^2) + (147,13^2) + (169,52^2) - (11949,38)}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 55,87$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(225,46^2) + (238,32^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 9,36$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 65,92 - 55,87 - 9,36 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,69$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	3.21	1.61	3.06	4.1
<b>KOMBINASI JT DAN P</b>	5	65.92	13.18	25.11	3.33
JARAK TANAM	2	55.87	27.94	53.21	4.1
PEMUPUKAN	1	9.36	9.36	17.83	4.96
INTERAKSI	2	0.69	0.35	0.66	4.1
<b>GALAT</b>	10	5.25	0.53		
<b>TOTAL</b>	17	74.38			

Koefisien Keragaman = 2,81 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,53}{3 \times 2}} \\ &= 0,932 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,53}{3 \times 3}} \\ &= 0,761 \end{aligned}$$

**Lampiran 6.d. Analisis Sidik Ragam Tinggi Tanaman 28 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	30.53	30.20	34.60	95.33	31.78
	P2 (200 kg per ha)	32.47	33.73	35.40	101.60	33.87
J2 (25 x 50 cm)	P1 (100 kg per ha)	33.13	30.27	31.33	94.73	31.58
	P2 (200 kg per ha)	33.47	31.27	32.33	97.07	32.36
J3 (25 x 100 cm)	P1 (100 kg per ha)	49.27	50.93	52.87	153.07	51.02
	P2 (200 kg per ha)	49.47	51.00	53.40	153.87	51.29
		228.34	227.40	239.93	695.67	38.65
	TK		TK2	TK3	TIJK	ŷ <sub>IJK</sub>

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{695,67^2}{3 \times 6} \\
 \text{FK} &= 26886,49 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (30,53)^2 + (30,20^2 + \dots + (53,40)^2 - 26886,49 \\
 \text{JK Total} &= 1455,17 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(228,34^2) + (227,40^2) + (239,93^2)}{3 \times 2} - 26886,49 \\
 \text{JK Kelompok} &= 16,23 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(95,33)^2 + (101,60)^2 + \dots + (153,87^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 1417,89 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 1455,17 - 16,23 - 1417,89 \\
 \text{JK Galat} &= 21,04
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	95.33	94.73	153.07	343.13	114.38
P2	101.60	97.07	153.87	352.54	117.51
TOTAL A	<b>196.93</b>	<b>191.80</b>	<b>306.94</b>	<b>695.67</b>	-
RATA A	<b>98.47</b>	<b>95.90</b>	<b>153.47</b>	-	<b>115.95</b>

$$\begin{aligned}
 \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\
 &= \frac{(196,93^2) + (191,80^2) + (306,94^2) - (26886,49)}{3 \times 2} \\
 \text{JK Jarak Tanam (A)} &= 1410,32 \\
 \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\
 &= \frac{(343,13^2) + (352,54^2)}{3 \times 3} \\
 \text{JK Pemupukan (B)} &= 4,92 \\
 \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\
 &= 1417,89 - 1410,32 - 4,92 \\
 \text{JK Interaksi AB} &= 2,65
 \end{aligned}$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	16.23	8.12	3.86	4.1
<b>KOMBINASI JT DAN P</b>	5	1417.89	283.58	134.78	3.33
JARAK TANAM	2	1410.32	705.16	335.15	4.1
PEMUPUKAN	1	4.92	4.92	2.34	4.96
INTERAKSI	2	2.65	1.33	0.63	4.1
<b>GALAT</b>	10	21.04	2.10		
<b>TOTAL</b>	17	1455.16			

Koefisien Keragaman = 3,75 %

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Jarak tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL x Level Pemupukan}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL x Level Pemupukan}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 2,10}{3 \times 2}} \\
 &= 1,866
 \end{aligned}$$



**Lampiran 6.e. Analisis Sidik Ragam Tinggi Tanaman 35 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	41.00	43.13	47.40	131.53	43.84
	P2 (200 kg per ha)	41.20	45.87	48.13	135.20	45.07
J2 (25 x 50 cm)	P1 (100 kg per ha)	46.60	40.53	42.13	129.26	43.09
	P2 (200 kg per ha)	46.93	43.00	45.60	135.53	45.18
J3 (25 x 100 cm)	P1 (100 kg per ha)	62.73	66.33	69.07	198.13	66.04
	P2 (200 kg per ha)	63.13	69.87	71.40	204.40	68.13
		301.59	308.73	323.73	934.05	51.89
	TK		TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{934,05^2}{3 \times 6} \\
 \text{FK} &= 48469,41 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (41,00)^2 + (43,13)^2 + \dots + (71,40)^2 - 4846,41 \\
 \text{JK Total} &= 2227,06 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(301,59^2) + (308,73^2) + (323,73^2)}{3 \times 2} - 4846,41 \\
 \text{JK Kelompok} &= 42,56 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(131,53)^2 + (135,20)^2 + \dots + (204,40^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 2094,11 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 2227,06 - 42,56 - 2094,11 \\
 \text{JK Galat} &= 90,39
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	131.53	129.26	198.13	458.92	152.97
P2	135.20	135.53	204.4	475.13	158.38
TOTAL A	<b>266.73</b>	<b>264.79</b>	<b>402.53</b>	<b>934.05</b>	-
RATA A	<b>133.37</b>	<b>132.40</b>	<b>201.27</b>	-	<b>155.68</b>

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(266,73^2) + (264,79^2) + (402,53^2) - (48469,41)}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 2078,76$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(458,92^2) + (475,13^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 14,60$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 2094,11 - 2078,76 - 14,60 \end{aligned}$$

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

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	42.56	21.28	2.35	4.1
<b>KOMBINASI JT DAN P</b>	5	2094.11	418.82	46.33	3.33
JARAK TANAM	2	2078.76	1039.38	114.99	4.1
PEMUPUKAN	1	14.60	14.60	1.62	4.96
INTERAKSI	2	0.75	0.38	0.04	4.1
<b>GALAT</b>	10	90.39	9.04		
<b>TOTAL</b>	17	2227.06			

Koefisien Keragaman = 5,79 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 9,04}{3 \times 2}} \\ &= 3,867 \end{aligned}$$

**Lampiran 6.f. Analisis Sidik Ragam Tinggi Tanaman 42 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	51.80	60.53	61.47	173.80	57.93
	P2 (200 kg per ha)	57.33	63.27	64.40	185.00	61.67
J2 (25 x 50 cm)	P1 (100 kg per ha)	73.67	61.67	72.27	207.61	69.20
	P2 (200 kg per ha)	76.40	64.20	72.40	213.00	71.00
J3 (25 x 100 cm)	P1 (100 kg per ha)	80.87	89.60	93.20	263.67	87.89
	P2 (200 kg per ha)	81.60	89.73	93.73	265.06	88.35
		421.67	429.00	457.47	1308.14	72.67
	TK		TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{1308,14^2}{3 \times 6} \\
 \text{FK} &= 95068,35 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (51,80)^2 + (60,53)^2 + \dots + (93,73)^2 - 95068,35 \\
 \text{JK Total} &= 2897,99 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(421,67^2) + (429,00^2) + (457,47^2)}{3 \times 2} - 95068,35 \\
 \text{JK Kelompok} &= 119,22 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(173,80)^2 + (185,00)^2 + \dots + (265,06^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 2491,99 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 2897,99 - 119,22 - 2491,99 \\
 \text{JK Galat} &= 286,78
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	173.80	207.61	263.67	645.08	215.03
P2	185.00	213.00	265.06	663.06	221.02
TOTAL A	<b>358.80</b>	<b>420.61</b>	<b>528.73</b>	<b>1308.14</b>	-
RATA A	<b>179.40</b>	<b>210.31</b>	<b>264.37</b>	-	<b>218.02</b>

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\ &= \frac{(358,80^2) + (420,621^2) + (528,73^2) - (95068,35)}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 2465,92$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\ &= \frac{(645,08^2) + (663,06^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 17,96$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 2491,99 - 2465,92 - 17,96 \end{aligned}$$

$$\text{JK Interaksi AB} = 8,11$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	119.22	59.61	2.08	4.1
<b>KOMBINASI JT DAN P</b>	5	2491.99	498.40	17.38	3.33
JARAK TANAM	2	2465.92	1232.96	42.99	4.1
PEMUPUKAN	1	17.96	17.96	0.63	4.96
INTERAKSI	2	8.11	4.06	0.14	4.1
<b>GALAT</b>	10	286.78	28.68		
<b>TOTAL</b>	17	2897.99			

Koefisien Keragaman = 7,37 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(14)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 28,68}{3 \times 2}} \\ &= 6,889 \end{aligned}$$

**Lampiran 6.g. Analisis Sidik Ragam Tinggi Tanaman 49 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	71.93	74.47	73.80	220.20	73.40
	P2 (200 kg per ha)	72.60	76.93	78.60	228.13	76.04
J2 (25 x 50 cm)	P1 (100 kg per ha)	74.20	72.60	74.60	221.40	73.80
	P2 (200 kg per ha)	76.53	75.87	76.67	229.07	76.36
J3 (25 x 100 cm)	P1 (100 kg per ha)	95.20	94.13	98.13	287.46	95.82
	P2 (200 kg per ha)	97.53	94.93	98.73	291.19	97.06
		487.99	488.93	500.53	1477.45	82.08
	TK		TK2	TK3	TIJK	Ŷ <sub>ijk</sub>

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{1477,45^2}{3 \times 6} \\
 \text{FK} &= 121269,92 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (71,93)^2 + (74,47)^2 + \dots + (98,73)^2 - 121269,92 \\
 \text{JK Total} &= 1920,53 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(487,99^2) + (488,93^2) + (500,53^2)}{3 \times 2} - 121269,92 \\
 \text{JK Kelompok} &= 16,26 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(220,20)^2 + (228,13)^2 + \dots + (291,19^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 1879,16 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 1920,53 - 16,26 - 1879,16 \\
 \text{JK Galat} &= 25,11
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	220.20	221.4	287.46	729.06	243.02
P2	228.13	229.07	291.19	748.39	249.46
TOTAL A	<b>448.33</b>	<b>450.47</b>	<b>578.65</b>	<b>1477.45</b>	-
RATA A	<b>224.17</b>	<b>225.24</b>	<b>289.33</b>	-	<b>246.24</b>

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\ &= \frac{(448,33^2) + (450,47^2) + (578,65^2) - (121269,92)}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1856,56$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\ &= \frac{(729,06^2) + (748,39^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 20,76$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 1879,16 - 1856,56 - 20,76 \end{aligned}$$

$$\text{JK Interaksi AB} = 1,85$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	16.26	8.13	3.24	4.1
<b>KOMBINASI JT DAN P</b>	5	1879.16	375.83	149.67	3.33
JARAK TANAM	2	1856.56	928.28	369.69	4.1
PEMUPUKAN	1	20.76	20.76	8.27	4.96
INTERAKSI	2	1.85	0.93	0.37	4.1
<b>GALAT</b>	10	25.11	2.51		
<b>TOTAL</b>	17	1920.53			

Koefisien Keragaman = 1,93 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 2,51}{3 \times 2}} \\ &= 2,038 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 2,51}{3 \times 3}} \\ &= 1,664 \end{aligned}$$

**Lampiran 6.h. Analisis Sidik Ragam Tinggi Tanaman 56 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	77.80	98.93	96.80	273.53	91.18
	P2 (200 kg per ha)	91.27	100.00	102.53	293.80	97.93
J2 (25 x 50 cm)	P1 (100 kg per ha)	112.33	103.00	111.67	327.00	109.00
	P2 (200 kg per ha)	114.33	106.67	112.67	333.67	111.22
J3 (25 x 100 cm)	P1 (100 kg per ha)	145.20	176.67	178.67	500.54	166.85
	P2 (200 kg per ha)	164.27	181.13	180.53	525.93	175.31
		705.20	766.40	782.87	2254.47	125.25
	TK		TK2	TK3	TIJK	Ŷ <sub>ijk</sub>

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{2254,47^2}{3 \times 6} \\
 \text{FK} &= 282368,61 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (77,80)^2 + (98,93)^2 + \dots + (180,53)^2 - 282368,61 \\
 \text{JK Total} &= 21127,90 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(705,20^2) + (766,40^2) + (782,87^2)}{3 \times 2} - 282368,61 \\
 \text{JK Kelompok} &= 558,30 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(273,53)^2 + (293,80)^2 + \dots + (525,93^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 19812,87 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 21127,90 - 558,30 - 19812,87 \\
 \text{JK Galat} &= 756,74
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	273.53	327.00	500.54	1101.07	367.02
P2	293.80	333.67	525.93	1153.40	384.47
TOTAL A	<b>567.33</b>	<b>660.67</b>	<b>1026.47</b>	<b>2254.47</b>	-
RATA A	<b>283.67</b>	<b>330.34</b>	<b>513.24</b>	-	<b>375.75</b>

$$\begin{aligned}
 \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\
 &= \frac{(567,33^2) + (660,67^2) + (1026,47^2) - 282368,61}{3 \times 2} \\
 \text{JK Jarak Tanam (A)} &= 19629,53 \\
 \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\
 &= \frac{(1101,07^2) + (1153,40^2)}{3 \times 3} \\
 \text{JK Pemupukan (B)} &= 152,13 \\
 \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\
 &= 19812,87 - 19629,53 - 152,13 \\
 \text{JK Interaksi AB} &= 31,20
 \end{aligned}$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	558.30	279.15	3.69	4.1
<b>KOMBINASI JT DAN P</b>	5	19812.87	3962.57	52.36	3.33
JARAK TANAM	2	19629.53	9814.77	129.70	4.1
PEMUPUKAN	1	152.13	152.13	2.01	4.96
INTERAKSI	2	31.20	15.60	0.21	4.1
<b>GALAT</b>	10	756.74	75.67		
<b>TOTAL</b>	17	21127.91			

Koefisien Keragaman = 6,95 %

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Jarak tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 75,67}{3 \times 2}} \\
 &= 11,190
 \end{aligned}$$



**Lampiran 7.a. Analisis Sidik Ragam Jumlah Daun 7 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	2.80	2.67	2.20	7.67	2.56
	P2 (200 kg per ha)	2.80	2.87	2.73	8.40	2.80
J2 (25 x 50 cm)	P1 (100 kg per ha)	2.80	2.60	2.47	7.87	2.62
	P2 (200 kg per ha)	2.80	2.33	2.67	7.80	2.60
J3 (25 x 100 cm)	P1 (100 kg per ha)	2.53	2.60	2.73	7.87	2.62
	P2 (200 kg per ha)	2.73	2.73	2.73	8.20	2.73
		16.47	15.80	15.53	47.80	2.66
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{47,80^2}{3 \times 6} \\
 \text{FK} &= 126,94 \\
 \text{JK Total} &= T(Y IJK^2) - \text{FK} \\
 &= 2,80^2 + 2,67^2 + \dots + 2,73^2 - 126,94 \\
 \text{JK Total} &= 0,53 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(16,47^2) + (15,80^2) + (15,53^2)}{3 \times 2} - 126,94 \\
 \text{JK Kelompok} &= 0,08 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} \\
 &= \frac{(7,67)^2 + (8,40)^2 + \dots + (8,20^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 0,13 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 0,53 - 0,08 - 0,13 \\
 \text{JK Galat} &= 0,32
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	7.67	7.87	7.87	23.40	7.80
P2	8.40	7.80	8.20	24.40	8.13
TOTAL A	16.07	15.67	16.07	47.80	-
RATA A	8.03	7.83	8.03	-	7.97

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(16,07^2) + (15,67^2) + (16,07^2) - 126,94}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,02$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(23,40^2) + (24,40^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 0,06$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 0,13 - 0,02 - 0,06 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,05$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.08	0.04	1.25	4.1
<b>KOMBINASI JT DAN P</b>	5	0.13	0.03	0.81	3.33
JARAK TANAM	2	0.02	0.01	0.31	4.1
PEMUPUKAN	1	0.06	0.06	1.88	4.96
INTERAKSI	2	0.05	0.03	0.78	4.1
<b>GALAT</b>	10	0.32	0.03		
<b>TOTAL</b>	17				

Koefisien Keragaman = 6,74 %

**Lampiran 7.b. Analisis Sidik Ragam Jumlah Daun 14 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	3.73	3.80	3.93	11.46	3.82
	P2 (200 kg per ha)	3.87	4.00	4.00	11.87	3.96
J2 (25 x 50 cm)	P1 (100 kg per ha)	3.93	3.80	3.87	11.60	3.87
	P2 (200 kg per ha)	4.00	3.87	3.93	11.80	3.93
J3 (25 x 100 cm)	P1 (100 kg per ha)	4.00	4.00	3.93	11.93	3.98
	P2 (200 kg per ha)	4.00	4.00	4.00	12.00	4.00
		23.53	23.47	23.66	70.66	3.93
	TK	TK1	TK2	TK3	TIJK	ÿIJK

$$FK = \frac{TIJK^2}{UL \times PERLAKUAN}$$

$$= \frac{70,66^2}{3 \times 6}$$

$$FK = 277,38$$

$$JK \text{ Total} = T(Y IJK^2) - FK$$

$$= 3,73^2 + (3,80)^2 + \dots + (4,00)^2 - 277,38$$

$$JK \text{ Total} = 0,12$$

$$JK \text{ Kelompok} = \frac{TK^2}{J \times P} - FK$$

$$= \frac{(23,53^2) + (23,47^2) + (23,66^2)}{3 \times 2}$$

$$JK \text{ Kelompok} = 0,00314$$

$$JK \text{ Kombinasi Perlakuan} = \frac{\text{Total AB}^2}{UL}$$

$$= \frac{(11,46)^2 + (11,87)^2 + \dots + (12,00^2)}{3}$$

$$JK \text{ Kombinasi Perlakuan} = 0,07$$

$$JK \text{ Galat} = JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan}$$

$$= 0,12 - 0,00314 - 0,07$$

$$JK \text{ Galat} = 0,05$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	11.46	11.60	11.93	34.99	11.66
P2	11.87	11.80	12.00	35.67	11.89
TOTAL A	23.33	23.40	23.93	70.66	-
RATA A	11.67	11.70	11.97	-	11.78

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\ &= \frac{(23,33^2) + (23,40^2) + (23,93^2) - 277,38}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 0,04$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\ &= \frac{(34,99^2) + (35,67^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 0,03$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 0,07 - 0,04 - 0,03 \end{aligned}$$

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

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.00314	0.00157	0.31	4.1
<b>KOMBINASI JT DAN P</b>	5	0.07	0.0140	2.80	3.33
JARAK TANAM	2	0.04	0.0200	4.00	4.1
PEMUPUKAN	1	0.03	0.0300	6.00	4.96
INTERAKSI	2	0.01	0.00500	1.00	4.1
<b>GALAT</b>	10	0.05	0.00500		
<b>TOTAL</b>	17	0.12			

Koefisien Keragaman = 1,80 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,005}{3 \times 3}} \\ &= 0,47 \end{aligned}$$

**Lampiran 7.c. Analisis Sidik Ragam Jumlah Daun 21 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	4.80	4.93	5.00	14.73	4.91
	P2 (200 kg per ha)	5.00	5.00	5.00	15.00	5.00
J2 (25 x 50 cm)	P1 (100 kg per ha)	5.00	5.00	4.93	14.93	4.98
	P2 (200 kg per ha)	5.00	5.00	5.00	15.00	5.00
J3 (25 x 100 cm)	P1 (100 kg per ha)	5.33	5.40	5.33	16.06	5.35
	P2 (200 kg per ha)	5.33	5.40	5.47	10.73	5.37
		30.46	30.73	25.26	86.45	5.10
	TK	TK1	TK2	TK3	TIJK	ÿIJK

$$FK = \frac{TIJK^2}{UL \times PERLAKUAN}$$

$$= \frac{86,45^2}{3 \times 6}$$

$$FK = 415,20$$

$$JK \text{ Total} = T(Y IJK^2) - FK$$

$$= (4,80)^2 + (4,93)^2 + \dots + (5,47)^2 - 415,20$$

$$JK \text{ Total} = 54,92$$

$$JK \text{ Kelompok} = \frac{TK^2}{J \times P} - FK$$

$$= \frac{(30,46^2) + (30,73^2) + (25,26^2)}{3 \times 2}$$

$$JK \text{ Kelompok} = 3,17$$

$$JK \text{ Kombinasi Perlakuan} = \frac{\text{Total AB}^2}{UL}$$

$$= \frac{(14,73)^2 + (15,00)^2 + \dots + (10,73^2)}{3}$$

$$JK \text{ Kombinasi Perlakuan} = 5,78$$

$$JK \text{ Galat} = JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan}$$

$$= 54,92 - 3,17 - 5,78$$

$$JK \text{ Galat} = 45,97$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	14.73	14.93	16.06	45.72	15.24
P2	15.00	15.00	10.73	40.73	13.58
TOTAL A	29.73	29.93	26.79	86.45	-
RATA A	14.87	14.97	13.40	-	14.41

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(29,73^2) + (29,93^2) + (26,79^2) - 415,20}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 1,03$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(45,72^2) + (40,73^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 1,38$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 5,78 - 1,03 - 1,38 \end{aligned}$$

$$\text{JK Interaksi AB} = 3,36$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	3.17	1.59	0.34	4.1
<b>KOMBINASI JT DAN P</b>	5	5.78	1.16	0.25	3.33
JARAK TANAM	2	1.03	0.52	0.11	4.1
PEMUPUKAN	1	1.38	1.38	0.30	4.96
INTERAKSI	2	3.36	1.68	0.37	4.1
<b>GALAT</b>	10	45.97	4.60		
<b>TOTAL</b>	17	54.92			

Koefisien Keragaman = 42,03 %

**Lampiran 7.d. Analisis Sidik Ragam Jumlah Daun 28 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	6.13	6.00	6.20	18.33	6.11
	P2 (200 kg per ha)	6.00	6.13	6.47	18.60	6.20
J2 (25 x 50 cm)	P1 (100 kg per ha)	5.93	6.00	5.73	17.66	5.89
	P2 (200 kg per ha)	6.13	6.00	6.07	18.20	6.07
J3 (25 x 100 cm)	P1 (100 kg per ha)	6.80	7.00	6.73	20.53	6.84
	P2 (200 kg per ha)	7.00	7.07	7.40	21.47	7.16
		37.99	38.20	38.60	114.79	6.38
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{114,79^2}{3 \times 6} \\
 \text{FK} &= 732,04 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (6,13)^2 + (6,00)^2 + \dots + (7,40)^2 - 732,04 \\
 \text{JK Total} &= 4,11 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{J \times P} - \text{FK} \\
 &= \frac{(37,99^2) + (38,20^2) + (38,60^2)}{3 \times 2} \\
 \text{JK Kelompok} &= 0,03 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(18,33)^2 + (18,00)^2 + \dots + (21,47^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 3,79 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 4,11 - 0,03 - 3,79 \\
 \text{JK Galat} &= 0,28
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	18.33	17.66	20.53	56.52	18.84
P2	18.60	18.20	21.47	58.27	19.42
TOTAL A	36.93	35.86	42.00	114.79	-
RATA A	18.47	17.93	21.00	-	19.13

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(36,93^2) + (35,86^2) + (42,00^2) - 415,20}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 3,59$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(56,52^2) + (58,27^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 0,17$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 3,79 - 3,59 - 0,17 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,04$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.03	0.02	0.54	4.1
<b>KOMBINASI JT DAN P</b>	5	3.79	0.76	27.07	3.33
JARAK TANAM	2	3.59	1.80	64.11	4.1
PEMUPUKAN	1	0.17	0.17	6.07	4.96
INTERAKSI	2	0.04	0.02	0.71	4.1
<b>GALAT</b>	10	0.28	0.03		
<b>TOTAL</b>	17	4.10			

Koefisien Keragaman = 2,62 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,03}{3 \times 2}} \\ &= 0,215 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,03}{3 \times 3}} \\ &= 0,176 \end{aligned}$$



**Lampiran 7.e. Analisis Sidik Ragam Jumlah Daun 35 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	7.27	7.20	7.27	21.74	7.25
	P2 (200 kg per ha)	6.93	7.33	8.07	22.33	7.44
J2 (25 x 50 cm)	P1 (100 kg per ha)	6.87	6.27	6.60	19.74	6.58
	P2 (200 kg per ha)	6.60	6.33	6.73	19.66	6.55
J3 (25 x 100 cm)	P1 (100 kg per ha)	7.73	7.87	7.33	22.93	7.64
	P2 (200 kg per ha)	8.07	7.93	7.53	23.53	7.84
		43.47	42.93	43.53	129.93	7.22
	TK	TK1	TK2	TK3	TIJK	ÿIJK

$$FK = \frac{TIJK^2}{UL \times PERLAKUAN}$$

$$= \frac{129,93^2}{3 \times 6}$$

$$= 937,88$$

$$JK \text{ Total} = T(Y IJK^2) - FK$$

$$= (7,27)^2 + (7,20)^2 + \dots + (7,53)^2 - 937,88$$

$$= 5,67$$

$$JK \text{ Kelompok} = \frac{TK^2}{J \times P} - FK$$

$$= \frac{(43,47^2) + (42,93^2) + (43,53^2)}{3 \times 2}$$

$$= 0,04$$

$$JK \text{ Kombinasi Perlakuan} = \frac{\text{Total AB}^2}{UL} - FK$$

$$= \frac{(21,74)^2 + (22,33)^2 + \dots + (23,53^2)}{3}$$

$$= 4,42$$

$$JK \text{ Galat} = JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan}$$

$$= 5,67 - 0,04 - 4,42$$

$$= 1,21$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	21.74	19.74	22.93	64.41	21.47
P2	22.33	19.66	23.53	65.52	21.84
TOTAL A	44.07	39.40	46.46	129.93	-
RATA A	22.04	19.70	23.23	-	21.66

$$\begin{aligned}
 \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\
 &= \frac{(44,07^2) + (39,40^2) + (46,40^2) - 937,88}{3 \times 2} \\
 \text{JK Jarak Tanam (A)} &= 4,30 \\
 \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\
 &= \frac{(64,61^2) + (65,52^2)}{3 \times 3} \\
 \text{JK Pemupukan (B)} &= 0,07 \\
 \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\
 &= 4,42 - 4,30 - 0,07 \\
 \text{JK Interaksi AB} &= 0,05
 \end{aligned}$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.04	0.02	0.17	4.1
<b>KOMBINASI JT DAN P</b>	5	4.42	0.88	7.31	3.33
JARAK TANAM	2	4.30	2.15	17.77	4.1
PEMUPUKAN	1	0.07	0.07	0.58	4.96
INTERAKSI	2	0.05	0.03	0.21	4.1
<b>GALAT</b>	10	1.21	0.12		
<b>TOTAL</b>	17	5.67			

Koefisien Keragaman = 4,82 %

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 0,12}{3 \times 2}} \\
 &= 0,447
 \end{aligned}$$

**Lampiran 7.f. Analisis Sidik Ragam Jumlah Daun 42 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	7.73	7.53	7.67	22.93	7.64
	P2 (200 kg per ha)	7.33	7.53	8.13	22.99	7.66
J2 (25 x 50 cm)	P1 (100 kg per ha)	8.13	7.00	7.93	23.06	7.69
	P2 (200 kg per ha)	8.40	7.60	7.93	23.93	7.98
J3 (25 x 100 cm)	P1 (100 kg per ha)	8.80	9.00	8.73	26.53	8.84
	P2 (200 kg per ha)	8.87	9.00	8.80	26.67	8.89
		49.26	47.66	49.19	146.11	8.12
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$FK = \frac{TIJK^2}{UL \times PERLAKUAN}$$

$$= \frac{146,11^2}{3 \times 6}$$

$$= 1186,01$$

$$JK \text{ Total} = T(Y IJK^2) - FK$$

$$= (7,73)^2 + (7,53)^2 + \dots + (8,80)^2 - 1186,01$$

$$= 6,76$$

$$JK \text{ Kelompok} = \frac{TK^2}{J \times P} - FK$$

$$= \frac{(49,26^2) + (47,66^2) + (49,19^2)}{3 \times 2}$$

$$= 0,27$$

$$JK \text{ Kombinasi Perlakuan} = \frac{\text{Total AB}^2}{UL} - FK$$

$$= \frac{(22,93)^2 + (22,99)^2 + \dots + (26,67^2)}{3}$$

$$= 5,28$$

$$JK \text{ Galat} = JK \text{ Total} - JK \text{ Kelompok} - JK \text{ Kombinasi Perlakuan}$$

$$= 6,76 - 0,27 - 5,28$$

$$= 1,21$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	22.93	23.06	26.53	72.52	24.17
P2	22.99	23.93	26.67	73.59	24.53
TOTAL A	45.92	46.99	53.20	146.11	-
RATA A	22.96	23.50	26.60	-	24.35

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL X B}} \\ &= \frac{(45,92^2) + (46,99^2) + (53,29^2) - 1186,01}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 5,15$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL X A}} \\ &= \frac{(72,52^2) + (73,59^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 0,06$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 5,28 - 5,15 - 0,06 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,07$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.27	0.14	1.12	4.1
<b>KOMBINASI JT DAN P</b>	5	5.28	1.06	8.73	3.33
JARAK TANAM	2	5.15	2.58	21.28	4.1
PEMUPUKAN	1	0.06	0.06	0.50	4.96
INTERAKSI	2	0.07	0.04	0.29	4.1
<b>GALAT</b>	10	1.21	0.12		
<b>TOTAL</b>	17	6.76			

Koefisien Keragaman = 4,29 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,12}{3 \times 2}} \\ &= 0,447 \end{aligned}$$

**Lampiran 7.g. Analisis Sidik Ragam Jumlah Daun 49 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	8.27	7.80	9.00	25.07	8.36
	P2 (200 kg per ha)	8.33	9.07	9.40	26.80	8.93
J2 (25 x 50 cm)	P1 (100 kg per ha)	8.47	8.47	8.33	25.27	8.42
	P2 (200 kg per ha)	8.67	8.53	8.40	25.60	8.53
J3 (25 x 100 cm)	P1 (100 kg per ha)	9.40	9.93	9.80	29.13	9.71
	P2 (200 kg per ha)	9.80	10.00	10.00	29.80	9.93
		52.94	53.80	54.93	161.67	8.98
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{161,67^2}{3 \times 6} \\
 \text{FK} &= 1452,07 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (8,27)^2 + (7,80)^2 + \dots + (10,00)^2 - 1186,01 \\
 \text{JK Total} &= 8,59 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(52,94^2) + (53,80^2) + (54,93^2)}{3 \times 2} \\
 \text{JK Kelompok} &= 0,33 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(25,07)^2 + (26,80)^2 + \dots + (29,80^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 7,03 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 8,59 - 0,33 - 7,03 \\
 \text{JK Galat} &= 1,23
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	25.07	25.27	29.13	79.47	26.49
P2	26.80	25.60	29.80	82.20	27.40
TOTAL A	51.87	50.87	58.93	161.67	-
RATA A	25.94	25.44	29.47	-	26.95

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\ &= \frac{(51,87^2) + (50,87^2) + (58,93^2) - 1452,07}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 6,43$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\ &= \frac{(79,47^2) + (82,20^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 0,41$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 7,03 - 6,43 - 0,41 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,18$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.33	0.17	1.34	4.1
<b>KOMBINASI JT DAN P</b>	5	7.03	1.41	11.43	3.33
JARAK TANAM	2	6.43	3.22	26.14	4.1
PEMUPUKAN	1	0.41	0.41	3.3	4.96
INTERAKSI	2	0.18	0.09	0.73	4.1
<b>GALAT</b>	10	1.23	0.12		
<b>TOTAL</b>	17	8.59			

Koefisien Keragaman = 3,90 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,12}{3 \times 2}} \\ &= 0,451 \end{aligned}$$

**Lampiran 7.h. Analisis Sidik Ragam Jumlah Daun 56 HST**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	7.20	9.13	8.87	25.20	8.40
	P2 (200 kg per ha)	8.47	10.00	9.40	27.87	9.29
J2 (25 x 50 cm)	P1 (100 kg per ha)	10.00	9.80	9.93	29.73	9.91
	P2 (200 kg per ha)	10.00	9.93	10.00	29.93	9.98
J3 (25 x 100 cm)	P1 (100 kg per ha)	11.47	11.40	11.47	34.34	11.45
	P2 (200 kg per ha)	11.60	11.73	11.47	34.80	11.60
		58.74	61.99	61.14	181.87	10.10
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{181,87^2}{3 \times 6} \\
 \text{FK} &= 1837,59 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (7,20)^2 + (9,13)^2 + \dots + (11,47)^2 - 1837,59 \\
 \text{JK Total} &= 26,43 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(58,74^2) + (61,99^2) + (61,14^2)}{3 \times 2} \\
 \text{JK Kelompok} &= 0,95 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(25,20)^2 + (27,87)^2 + \dots + (34,80^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 22,98 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 26,43 - 0,95 - 22,98 \\
 \text{JK Galat} &= 2,50
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	25.20	29.73	34.34	89.27	29.76
P2	27.87	29.93	34.80	92.60	30.87
TOTAL A	53.07	59.66	69.14	181.87	-
RATA A	26.54	29.83	34.57	-	30.31

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\ &= \frac{(53,07^2) + (59,66^2) + (69,14^2) - 1837,59}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 21,75$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\ &= \frac{(89,27^2) + (92,60^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 0,62$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 22,98 - 21,75 - 0,62 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,61$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	0.95	0.48	1.90	4.1
<b>KOMBINASI JT DAN P</b>	5	22.98	4.60	18.38	3.33
JARAK TANAM	2	21.75	10.88	43.50	4.1
PEMUPUKAN	1	0.62	0.62	2.48	4.96
INTERAKSI	2	0.61	0.31	1.22	4.1
<b>GALAT</b>	10	2.5	0.25		
<b>TOTAL</b>	17	26.43			

Koefisien Keragaman = 4,95 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ul} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,25}{3 \times 2}} \\ &= 0,643 \end{aligned}$$



**Lampiran 8. Analisis Sidik Ragam Panjang Tongkol**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	17.20	17.20	17.90	52.30	17.43
	P2 (200 kg per ha)	17.80	19.00	18.60	55.40	18.47
J2 (25 x 50 cm)	P1 (100 kg per ha)	18.00	17.80	18.80	54.60	18.20
	P2 (200 kg per ha)	18.80	18.60	20.40	57.80	19.27
J3 (25 x 100 cm)	P1 (100 kg per ha)	18.00	18.50	18.50	55.00	18.33
	P2 (200 kg per ha)	19.00	19.50	19.10	57.60	19.20
		108.80	110.60	113.30	332.70	18.48
	TK	TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{332,70^2}{3 \times 6} \\
 \text{FK} &= 6149,41 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (17,20)^2 + (17,20)^2 + \dots + (19,10)^2 - 6149,41 \\
 \text{JK Total} &= 10,88 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(108,80^2) + (110,60^2) + (113,30^2)}{3 \times 2} \\
 \text{JK Kelompok} &= 1,71 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(52,30)^2 + (55,40)^2 + \dots + (57,60^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 7,00 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 10,88 - 1,71 - 7,00 \\
 \text{JK Galat} &= 2,18
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	52.30	54.60	55.00	161.90	53.97
P2	55.40	57.80	57.60	170.80	56.93
TOTAL A	107.70	112.40	112.60	332.70	-
RATA A	53.85	56.20	56.30	-	55.45

$$\begin{aligned} \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\ &= \frac{(107,70^2) + (112,40^2) + (112,60^2) - 6149,41}{3 \times 2} \end{aligned}$$

$$\text{JK Jarak Tanam (A)} = 2,56$$

$$\begin{aligned} \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\ &= \frac{(161,90^2) + (170,80^2)}{3 \times 3} \end{aligned}$$

$$\text{JK Pemupukan (B)} = 4,40$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\ &= 7,00 - 2,56 - 4,40 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,03$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	1.71	0.86	3.92	4.1
<b>KOMBINASI JT DAN P</b>	5	7.00	1.40	6.42	3.33
JARAK TANAM	2	2.56	1.28	5.87	4.1
PEMUPUKAN	1	4.4	4.40	20.18	4.96
INTERAKSI	2	0.03	0.02	0.07	4.1
<b>GALAT</b>	10	2.18	0.22		
<b>TOTAL</b>	17	10.89			

Koefisien Keragaman = 2,53 %

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,02}{3 \times 2}} \\ &= 0,601 \end{aligned}$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\ &= 2,228 \times \sqrt{\frac{2 \times 0,02}{3 \times 3}} \\ &= 0,490 \end{aligned}$$

**Lampiran 9. Analisis Sidik Ragam Berat Tongkol**

FAKTOR A (JARAK TANAM)	FAKTOR B (PEMUPUKAN)	ULANGAN			TOTAL AB	RATA
		1	2	3		
J1 (25 x 25 cm)	P1 (100 kg per ha)	170.00	167.60	176.80	514.40	171.47
	P2 (200 kg per ha)	196.00	192.00	199.40	587.40	195.80
J2 (25 x 50 cm)	P1 (100 kg per ha)	170.00	176.40	186.00	532.40	177.47
	P2 (200 kg per ha)	192.00	180.00	197.00	569.00	189.67
J3 (25 x 100 cm)	P1 (100 kg per ha)	184.00	216.00	194.00	594.00	198.00
	P2 (200 kg per ha)	196.00	226.00	206.00	628.00	209.33
		1108.00	1158.00	1159.20	3425.20	190.29
TK		TK1	TK2	TK3	TIJK	ŷIJK

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{3425,20^2}{3 \times 6} \\
 \text{FK} &= 651777,50 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (170,00)^2 + (167,60)^2 + \dots + (206,00)^2 - 651777,50 \\
 \text{JK Total} &= 4272,82 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{J} \times \text{P}} - \text{FK} \\
 &= \frac{(1108,00^2) + (1158,00^2) + (1159,20^2)}{3 \times 2} \\
 \text{JK Kelompok} &= 284,60 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(514,40)^2 + (587,40)^2 + \dots + (628,00^2)}{3} \\
 \text{JK Kombinasi Perlakuan} &= 2914,79 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 4272,82 - 284,60 - 2914,79 \\
 \text{JK Galat} &= 1073,42
 \end{aligned}$$

FAKTOR B (PEMUPUKAN)	FAKTOR A (JARAK TANAM)			TOTAL B	RATA B
	J1	J2	J3		
P1	514.40	532.40	594.00	1640.80	546.93
P2	587.40	569.00	628.00	1784.40	594.80
TOTAL A	1101.80	1101.40	1222.00	3425.20	-
RATA A	550.90	550.70	611.00	-	570.87

$$\begin{aligned}
 \text{JK Jarak Tanam (A)} &= \frac{(\text{Total Jarak Tanam (A)})^2}{\text{UL} \times \text{B}} \\
 &= \frac{(1101,80^2) + (1101,40^2) + (1222,00^2) - 651777,50}{3 \times 2} \\
 \text{JK Jarak Tanam (A)} &= 1610,70 \\
 \text{JK Pemupukan (B)} &= \frac{(\text{Total Pemupukan (B)})^2}{\text{UL} \times \text{A}} \\
 &= \frac{(1460,80^2) + (1784,40^2)}{3 \times 3} \\
 \text{JK Pemupukan (B)} &= 1145,61 \\
 \text{JK Interaksi AB} &= \text{JK Komb Perl} - \text{JK Jarak Tanam} - \text{JK Pemupukan} \\
 &= 2914,79 - 1610,70 - 1145,61 \\
 \text{JK Interaksi AB} &= 158,48
 \end{aligned}$$

Tabel Sidik Ragam

SK	DB	JK	KT	FHIT	FTABEL 5%
<b>KELOMPOK</b>	2	284.60	142.30	1.33	4.1
<b>KOMBINASI JT DAN P</b>	5	2914.79	582.96	5.43	3.33
JARAK TANAM	2	1610.70	805.35	7.50	4.1
PEMUPUKAN	1	1145.61	1145.61	10.67	4.96
INTERAKSI	2	158.48	79.24	0.74	4.1
<b>GALAT</b>	10	1073.42	107.34		
<b>TOTAL</b>	17	4272.81			

Koefisien Keragaman = 5,44 %

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Jarak Tanam)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Pemupukan}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 107,34}{3 \times 2}} \\
 &= 13,327 \\
 \text{Uji Lanjut BNT 5 \% (Pemupukan)} &= t_{\alpha(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\
 &= t_{0,05(10)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{UL} \times \text{Level Jarak Tanam}}} \\
 &= 2,228 \times \sqrt{\frac{2 \times 107,34}{3 \times 3}} \\
 &= 10,882
 \end{aligned}$$

**Lampiran 10. Dokumentasi**

**Pembuatan Ploting dan Pemagaran**



**Penanaman**



**Pengamatan Tinggi Tanaman Dan Jumlah Daun**

**7 HST**



**14 HST**



**21 HST**



**28 HST**



**35 HST**



**42 HST**



49 HST



56 HST



**Pengamatan Panjang Tongkol Dan Berat Tongkol**



**Pemupukan Phonska**

P1



P2



PANEN





Label Varietas Jagung Manis (*Super Sweet*)