

BAB V

KESIMPULAN DAN SARAN

5.1. Kesimpulan

1. Jarak tanam tertentu yang dilakukan pada tanaman cabai tidak mempengaruhi tinggi tanaman, jumlah daun, jumlah cabang produktif, umur keluar bunga, jumlah buah dan berat buah.
2. Pemupukan berpengaruh nyata terhadap tinggi tanaman, jumlah daun, jumlah cabang produktif, dan jumlah buah. Pemberian pupuk phonska 200 kg/ha memberikan pengaruh terbaik terhadap pertumbuhan dan hasil tanaman cabai.
3. Tidak ada interaksi Perlakuan pemupukan dan jarak tanam pada tanaman cabai tidak ada interaksi terhadap tinggi tanaman, jumlah daun, jumlah cabang produktif, umur keluar bunga, jumlah buah dan berat buah.

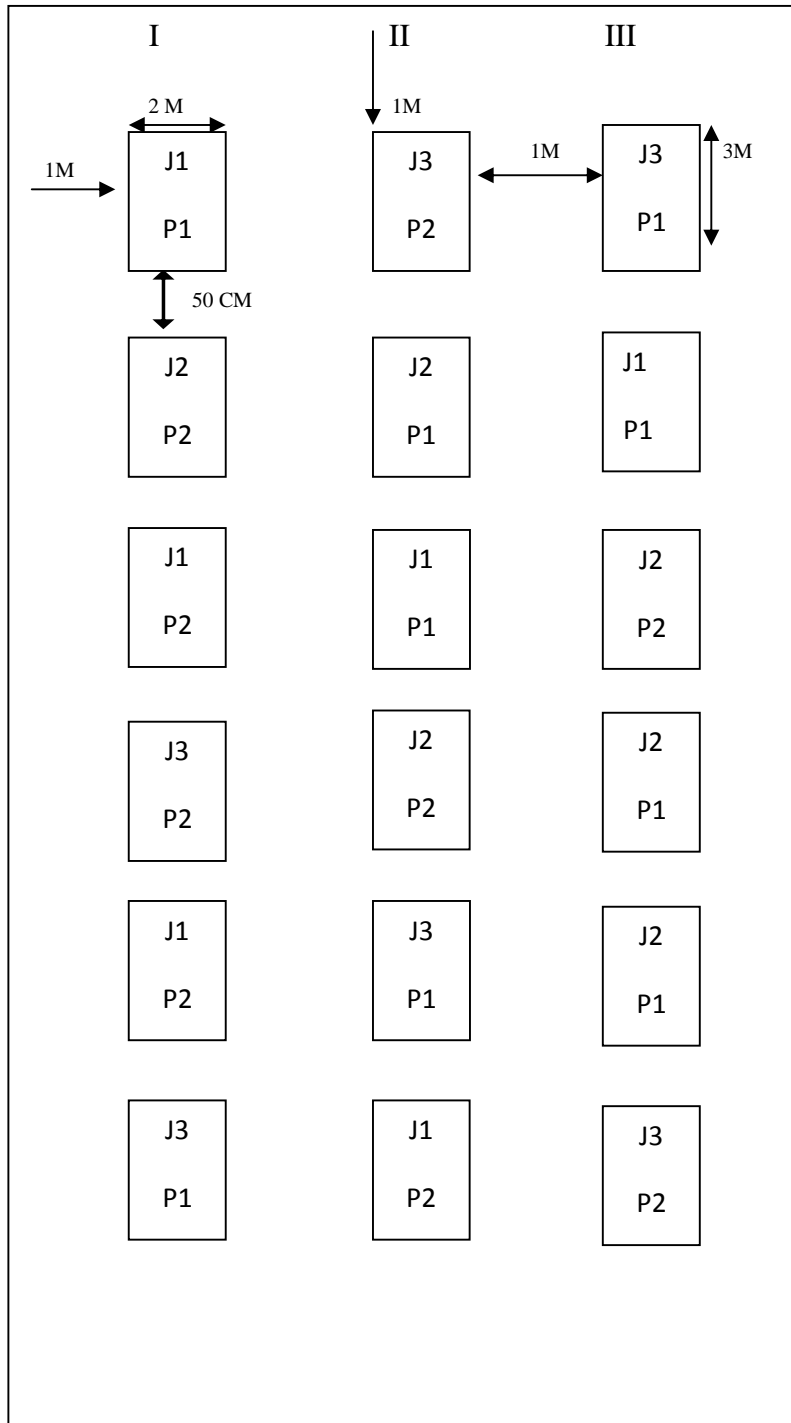
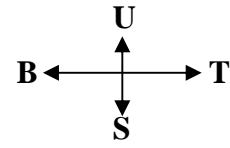
5.2. Saran

Berdasarkan hasil penelitian ini disarankan perlu adanya penelitian lebih lanjut mengenai pemupukan dan jarak tanam yang tepat guna untuk peningkatan produktivitas tanaman cabai yang lebih baik.

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Lampiran 1. Layot Penelitian



Lampiran 2.a. Analisis Sidik Ragam Tinggi Tanaman 10 Hari Setelah Pemupukan

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|--------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 11,80 | 10,80 | 11,80 | 34,40 | 11,47 |
| | J2 | 11,60 | 11,00 | 12,00 | 34,60 | 11,53 |
| | J3 | 10,40 | 11,60 | 11,20 | 33,20 | 11,07 |
| P1 | J1 | 12,20 | 12,00 | 12,20 | 36,40 | 12,13 |
| | J2 | 12,80 | 12,80 | 12,40 | 38,00 | 12,67 |
| | J3 | 12,00 | 12,40 | 12,80 | 37,20 | 12,40 |
| P2 | J1 | 12,40 | 12,20 | 12,20 | 36,80 | 12,27 |
| | J2 | 13,00 | 12,40 | 11,80 | 37,20 | 12,40 |
| | J3 | 11,60 | 12,00 | 11,00 | 34,60 | 11,53 |
| | | 107,80 | 107,20 | 107,40 | 322,40 | 11,94 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

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

$$= \frac{322,40^2}{3 \times 9}$$

$$FK = 3849,69$$

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

$$= (11,80^2 + 10,80^2 + \dots + 11,00^2) - 3849,69$$

$$JK \text{ Total} = 10,87$$

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

$$= \frac{(107,80^2) + (107,20^2) + (107,40^2)}{3 \times 3} - 3849,69$$

$$JK \text{ Kelompok} = 0,02$$

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

$$= \frac{(34,40^2) + (34,60^2) + \dots + (34,60^2)}{3} - 3849,69$$

$$JK \text{ Kombinasi Perlakuan} = 7,24$$

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

$$= 10,87 - 0,02 - 7,24$$

$$JK \text{ Galat} = 3,61$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUKUP PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 34,40 | 36,40 | 36,80 | 107,60 | 35,87 |
| J2 | 34,60 | 38,00 | 37,20 | 109,80 | 36,60 |
| J3 | 33,20 | 37,20 | 34,60 | 105,00 | 35,00 |
| TOTAL A | 102,20 | 111,60 | 108,60 | 322,40 | - |
| RATA A | 34,07 | 37,20 | 36,20 | - | 35,82 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(102,20^2) + (111,60^2) + (108,60^2)}{3 \times 3} - 3849,69 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 5,12$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(107,60^2) + (109,80^2) + (105,00^2)}{3 \times 3} - 3849,69 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 1,28$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 7,24 - 5,12 - 1,28 \end{aligned}$$

$$\text{JK Interaksi AB} = 0,83$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|---------------|-----------|
| KELOMPOK | 2 | 0,02 | 0,01 | 0,046 | 3,63 |
| KOMBINASI P DAN JT | 8 | 7,24 | 0,90 | 4,015 | 2,59 |
| PHONSKA | 2 | 5,12 | 2,56 | 11,366 | 3,63 |
| JARAK TANAM | 2 | 1,28 | 0,64 | 2,846 | 3,63 |
| INTERAKSI | 4 | 0,83 | 0,21 | 0,924 | 3,01 |
| GALAT | 16 | 3,61 | 0,23 | | |
| TOTAL | 26 | 10,87 | | | |

$$\text{Koefisien Keragaman} = 3,98 \%$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Phonska)} &= t_{(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(16)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\ &= 2,120 \times \sqrt{\frac{2 \times 0,23}{3 \times 3}} \\ &= 0,47 \end{aligned}$$

Lampiran 2.b. Analisis Sidik Ragam Tinggi Tanaman 20 Hari Setelah Pemupukan

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|--------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 16,00 | 16,80 | 15,60 | 48,40 | 16,13 |
| | J2 | 14,80 | 14,00 | 17,40 | 46,20 | 15,40 |
| | J3 | 19,00 | 19,00 | 15,60 | 53,60 | 17,87 |
| P1 | J1 | 16,60 | 15,80 | 15,20 | 47,60 | 15,87 |
| | J2 | 16,00 | 17,20 | 16,00 | 49,20 | 16,40 |
| | J3 | 16,00 | 16,20 | 16,20 | 48,40 | 16,13 |
| P2 | J1 | 17,20 | 15,20 | 16,60 | 49,00 | 16,33 |
| | J2 | 16,60 | 15,60 | 16,80 | 49,00 | 16,33 |
| | J3 | 18,00 | 16,40 | 16,20 | 50,60 | 16,87 |
| | | 150,20 | 146,20 | 145,60 | 442,00 | 16,37 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

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

$$= \frac{442,00^2}{3 \times 9}$$

$$= 7235,70$$

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

$$= (16,00^2 + 16,80^2 + \dots + 16,20^2) - 7235,70$$

$$= 33,02$$

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

$$= \frac{(150,20^2) + (146,20^2) + (145,60^2)}{3 \times 3} - 7235,70$$

$$= 1,39$$

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

$$= \frac{(48,40^2) + (46,20^2) + \dots + (50,60^2)}{3} - 7235,70$$

$$= 11,39$$

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

$$= 33,02 - 1,39 - 11,39$$

$$= 20,24$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUKUP PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 48,40 | 47,60 | 49,00 | 145,00 | 48,33 |
| J2 | 46,20 | 49,20 | 49,00 | 144,40 | 48,13 |
| J3 | 53,60 | 48,40 | 50,60 | 152,60 | 50,87 |
| TOTAL A | 148,20 | 145,20 | 148,60 | 442,00 | - |
| RATA A | 49,40 | 48,40 | 49,53 | - | 49,11 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(148,20^2) + (145,20^2) + (148,60^2)}{3 \times 3} - 7235,70 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 0,77$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(145,00^2) + (144,40^2) + (152,60^2)}{3 \times 3} - 7235,70 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 4,64$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 11,39 - 0,77 - 4,64 \end{aligned}$$

$$\text{JK Interaksi AB} = 5,98$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|-------|-----------|
| KELOMPOK | 2 | 1,39 | 0,69 | 0,549 | 3,63 |
| KOMBINASI P DAN JT | 8 | 11,39 | 1,42 | 1,126 | 2,59 |
| PHONSKA | 2 | 0,77 | 0,38 | 0,303 | 3,63 |
| JARAK TANAM | 2 | 4,64 | 2,32 | 1,835 | 3,63 |
| INTERAKSI | 4 | 5,98 | 1,49 | 1,182 | 3,01 |
| GALAT | 16 | 20,24 | 1,26 | | |
| TOTAL | 26 | 33,02 | | | |

$$\text{Koefisien Keragaman} = 6,87 \%$$

Lampiran 2.c. Analisis Sidik Ragam Tinggi Tanaman 30 Hari Setelah Pemupukan

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|--------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 44,80 | 41,20 | 36,40 | 122,40 | 40,80 |
| | J2 | 47,00 | 41,80 | 37,40 | 126,20 | 42,07 |
| | J3 | 44,20 | 47,80 | 35,00 | 127,00 | 42,33 |
| P1 | J1 | 52,00 | 55,20 | 35,60 | 142,80 | 47,60 |
| | J2 | 55,20 | 33,20 | 50,00 | 138,40 | 46,13 |
| | J3 | 33,00 | 54,80 | 57,20 | 145,00 | 48,33 |
| P2 | J1 | 40,60 | 45,20 | 40,40 | 126,20 | 42,07 |
| | J2 | 47,00 | 43,40 | 40,80 | 131,20 | 43,73 |
| | J3 | 40,20 | 34,60 | 40,00 | 114,80 | 38,27 |
| | | 404,00 | 397,20 | 372,80 | 1174,00 | 43,48 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{1174,00^2}{3 \times 9} \\
 \text{FK} &= 51047,26 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (44,80^2 + 41,20^2 + \dots + 40,00^2) - 51047,26 \\
 \text{JK Total} &= 1326,18 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{P} \times \text{JT}} - \text{FK} \\
 &= \frac{(404,00^2) + (397,20^2) + (372,80^2)}{3 \times 3} - 51047,26 \\
 \text{JK Kelompok} &= 59,82 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(122,40^2) + (126,20^2) + \dots + (114,80^2)}{3} - 51047,26 \\
 \text{JK Kombinasi Perlakuan} &= 261,91 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 1326,18 - 59,82 - 261,91 \\
 \text{JK Galat} &= 1004,45
 \end{aligned}$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUPUK PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 122,40 | 142,80 | 126,20 | 391,40 | 130,47 |
| J2 | 126,20 | 138,40 | 131,20 | 395,80 | 131,93 |
| J3 | 127,00 | 145,00 | 114,80 | 386,80 | 128,93 |
| TOTAL A | 375,60 | 426,20 | 372,20 | 1174,00 | - |
| RATA A | 125,20 | 142,07 | 124,07 | - | 130,44 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(375,60^2) + (426,20^2) + (372,20^2)}{3 \times 3} - 51047,26 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 203,26$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(391,40^2) + (395,80^2) + (386,80^2)}{3 \times 3} - 51047,26 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 4,50$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 261,91 - 203,26 - 4,50 \end{aligned}$$

$$\text{JK Interaksi AB} = 54,16$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|-------|-----------|
| KELOMPOK | 2 | 59,82 | 29,91 | 0,476 | 3,63 |
| KOMBINASI P DAN JT | 8 | 261,91 | 32,74 | 0,522 | 2,59 |
| PHONSKA | 2 | 203,26 | 101,63 | 1,619 | 3,63 |
| JARAK TANAM | 2 | 4,50 | 2,25 | 0,036 | 3,63 |
| INTERAKSI | 4 | 54,16 | 13,54 | 0,216 | 3,01 |
| GALAT | 16 | 1004,45 | 62,78 | | |
| TOTAL | 26 | 1326,18 | | | |

$$\text{Koefisien Keragaman} = 18,22 \%$$

Lampiran 3.a. Analisis Sidik Ragam Jumlah daun 10 Hari Setelah Pemupukan

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|--------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 12,00 | 13,80 | 13,20 | 39,00 | 13,00 |
| | J2 | 13,40 | 14,00 | 14,80 | 42,20 | 14,07 |
| | J3 | 10,00 | 15,20 | 16,60 | 41,80 | 13,93 |
| P1 | J1 | 13,60 | 16,60 | 17,80 | 48,00 | 16,00 |
| | J2 | 15,80 | 16,60 | 18,00 | 50,40 | 16,80 |
| | J3 | 15,00 | 14,60 | 16,20 | 45,80 | 15,27 |
| P2 | J1 | 15,80 | 15,80 | 17,60 | 49,20 | 16,40 |
| | J2 | 35,40 | 14,00 | 18,00 | 67,40 | 22,47 |
| | J3 | 16,20 | 17,20 | 15,60 | 49,00 | 16,33 |
| | | 147,20 | 137,80 | 147,80 | 432,80 | 16,03 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{432,80^2}{3 \times 9} \\
 \text{FK} &= 6937,62 \\
 \text{JK Total} &= \text{T} (\text{Y IJK}^2) - \text{FK} \\
 &= (12,00^2 + 13,80^2 + \dots + 15,60^2) - 6937,62 \\
 \text{JK Total} &= 483,26 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{P} \times \text{JT}} - \text{FK} \\
 &= \frac{(147,20^2) + (137,80^2) + (147,80^2)}{3 \times 3} - 6937,62 \\
 \text{JK Kelompok} &= 6,99 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(39,00^2) + (42,20^2) + \dots + (49,00^2)}{3} - 6937,62 \\
 \text{JK Kombinasi Perlakuan} &= 180,80 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 483,26 - 6,99 - 180,80 \\
 \text{JK Galat} &= 295,46
 \end{aligned}$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUKUP PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 39,00 | 48,00 | 49,20 | 136,20 | 45,40 |
| J2 | 42,20 | 50,40 | 67,40 | 160,00 | 53,33 |
| J3 | 41,80 | 45,80 | 49,00 | 136,60 | 45,53 |
| TOTAL A | 123,00 | 144,20 | 165,60 | 432,80 | - |
| RATA A | 41,00 | 48,07 | 55,20 | - | 48,09 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(123,00^2) + (144,20^2) + (165,60^2)}{3 \times 3} - 6937,62 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 100,82$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(136,20^2) + (160,00^2) + (136,60^2)}{3 \times 3} - 6937,62 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 41,27$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 180,80 - 100,82 - 41,27 \end{aligned}$$

$$\text{JK Interaksi AB} = 38,72$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|-------|-----------|
| KELOMPOK | 2 | 6,99 | 3,49 | 0,189 | 3,63 |
| KOMBINASI P DAN JT | 8 | 180,80 | 22,60 | 1,224 | 2,59 |
| PHONSKA | 2 | 100,82 | 50,41 | 2,730 | 3,63 |
| JARAK TANAM | 2 | 41,27 | 20,63 | 1,117 | 3,63 |
| INTERAKSI | 4 | 38,72 | 9,68 | 0,524 | 3,01 |
| GALAT | 16 | 295,46 | 18,47 | | |
| TOTAL | 26 | 483,26 | | | |

$$\text{Koefisien Keragaman} = 26,81 \%$$

Lampiran 3.b. Analisis Sidik Ragam Jumlah daun 20 Hari Setelah Pemupukan

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|--------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 18,20 | 18,60 | 13,20 | 50,00 | 16,67 |
| | J2 | 19,20 | 14,80 | 14,80 | 48,80 | 16,27 |
| | J3 | 17,60 | 15,80 | 16,60 | 50,00 | 16,67 |
| P1 | J1 | 24,40 | 14,00 | 25,20 | 63,60 | 21,20 |
| | J2 | 19,00 | 16,60 | 34,00 | 69,60 | 23,20 |
| | J3 | 19,20 | 18,60 | 16,20 | 54,00 | 18,00 |
| P2 | J1 | 34,00 | 15,80 | 17,60 | 67,40 | 22,47 |
| | J2 | 17,80 | 14,00 | 18,00 | 49,80 | 16,60 |
| | J3 | 19,60 | 11,20 | 19,60 | 50,40 | 16,80 |
| | | 189,00 | 139,40 | 175,20 | 503,60 | 18,65 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{503,60^2}{3 \times 9} \\
 \text{FK} &= 9393,07 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (18,20^2 + 18,60^2 + \dots + 19,60^2) - 9393,07 \\
 \text{JK Total} &= 742,05 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{P} \times \text{JT}} - \text{FK} \\
 &= \frac{(189,00^2) + (139,40^2) + (175,20^2)}{3 \times 3} - 9393,07 \\
 \text{JK Kelompok} &= 145,64 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(50,00^2) + (48,80^2) + \dots + (50,40^2)}{3} - 9393,07 \\
 \text{JK Kombinasi Perlakuan} &= 190,10 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 742,05 - 145,64 - 190,10 \\
 \text{JK Galat} &= 406,31
 \end{aligned}$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUKUP PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 50,00 | 63,60 | 67,40 | 181,00 | 60,33 |
| J2 | 48,80 | 69,60 | 49,80 | 168,20 | 56,07 |
| J3 | 50,00 | 54,00 | 50,40 | 154,40 | 51,47 |
| TOTAL A | 148,80 | 187,20 | 167,60 | 503,60 | - |
| RATA A | 49,60 | 62,40 | 55,87 | - | 55,96 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(148,80^2) + (187,20^2) + (167,60^2)}{3 \times 3} - 9393,07 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 81,93$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(181,00^2) + (168,20^2) + (154,40^2)}{3 \times 3} - 9393,07 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 39,33$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 190,10 - 81,93 - 39,33 \end{aligned}$$

$$\text{JK Interaksi AB} = 68,84$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|-------|-----------|
| KELOMPOK | 2 | 145,64 | 72,82 | 2,868 | 3,63 |
| KOMBINASI P DAN JT | 8 | 190,10 | 23,76 | 0,936 | 2,59 |
| PHONSKA | 2 | 81,93 | 40,97 | 1,613 | 3,63 |
| JARAK TANAM | 2 | 39,33 | 19,66 | 0,774 | 3,63 |
| INTERAKSI | 4 | 68,84 | 17,21 | 0,678 | 3,01 |
| GALAT | 16 | 406,31 | 25,39 | | |
| TOTAL | 26 | 742,05 | | | |

$$\text{Koefisien Keragaman} = 27,00 \%$$

Lampiran 3.c. Analisis Sidik Ragam Jumlah daun 30 Hari Setelah Pemupukan

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|---------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 45,20 | 43,20 | 67,60 | 156,00 | 44,20 |
| | J2 | 45,40 | 44,40 | 77,60 | 167,40 | 44,90 |
| | J3 | 47,20 | 46,80 | 84,40 | 178,40 | 47,00 |
| P1 | J1 | 161,80 | 43,20 | 82,40 | 287,40 | 102,50 |
| | J2 | 99,20 | 58,40 | 216,20 | 373,80 | 78,80 |
| | J3 | 112,60 | 64,40 | 121,80 | 298,80 | 88,50 |
| P2 | J1 | 249,40 | 299,40 | 122,40 | 671,20 | 274,40 |
| | J2 | 256,60 | 132,00 | 95,40 | 484,00 | 194,30 |
| | J3 | 106,40 | 54,40 | 167,40 | 328,20 | 80,40 |
| | | 1123,80 | 786,20 | 1035,20 | 2945,20 | 106,11 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{2945,20^2}{3 \times 9} \\
 \text{FK} &= 321266,78 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (45,20^2 + 43,20^2 + \dots + 167,40^2) - 321266,78 \\
 \text{JK Total} &= 136792,50 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{P} \times \text{JT}} - \text{FK} \\
 &= \frac{(1123,80^2) + (786,20^2) + (1035,20^2)}{3 \times 3} - 321266,78 \\
 \text{JK Kelompok} &= 6808,32 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(156,00^2) + (167,40) + \dots + (328,20^2)}{3} - 321266,78 \\
 \text{JK Kombinasi Perlakuan} &= 74824,10 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 136792,50 - 6808,32 - 74824,10 \\
 \text{JK Galat} &= 55160,80
 \end{aligned}$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUPUK PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|---------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 156,00 | 287,40 | 671,20 | 1114,60 | 371,53 |
| J2 | 167,40 | 373,80 | 484,00 | 1025,20 | 341,73 |
| J3 | 178,40 | 298,80 | 328,20 | 805,40 | 268,47 |
| TOTAL A | 501,80 | 960,00 | 1483,40 | 2945,20 | - |
| RATA A | 167,27 | 320,00 | 494,47 | - | 327,24 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(501,80^2) + (960,00^2) + (1483,40^2)}{3 \times 3} - 321266,78 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 53608,64$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(1114,60^2) + (1025,20^2) + (805,40^2)}{3 \times 3} - 321266,78 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 5626,26$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 74824,10 - 53608,64 - 5626,26 \end{aligned}$$

$$\text{JK Interaksi AB} = 15589,20$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|--------------|-----------|
| KELOMPOK | 2 | 6808,32 | 3404,16 | 0,987 | 3,63 |
| KOMBINASI P DAN JT | 8 | 74824,10 | 9353,01 | 2,713 | 2,59 |
| PHONSKA | 2 | 53608,64 | 26804,32 | 7,775 | 3,63 |
| JARAK TANAM | 2 | 5626,26 | 2813,13 | 0,816 | 3,63 |
| INTERAKSI | 4 | 15,589,20 | 3897,30 | 1,130 | 3,01 |
| GALAT | 16 | 55160,08 | 3447,50 | | |
| TOTAL | 26 | 136792,50 | | | |

$$\text{Koefisien Keragaman} = 55,33 \%$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Phonska)} &= t_{(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(16)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\ &= 2,120 \times \sqrt{\frac{2 \times 3447,50}{3 \times 3}} \\ &= 58,68 \end{aligned}$$

Lampiran 4. Analisis Sidik Ragam Jumlah Cabang Produktif

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|-------|-------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 4,80 | 4,00 | 3,60 | 12,40 | 4,13 |
| | J2 | 5,00 | 4,20 | 3,40 | 12,60 | 4,20 |
| | J3 | 5,20 | 4,60 | 3,40 | 13,20 | 4,40 |
| P1 | J1 | 5,40 | 4,60 | 3,20 | 13,20 | 4,40 |
| | J2 | 5,60 | 4,80 | 5,40 | 15,80 | 5,27 |
| | J3 | 5,40 | 4,40 | 3,80 | 13,60 | 4,53 |
| P2 | J1 | 5,40 | 5,20 | 4,20 | 14,80 | 4,93 |
| | J2 | 4,80 | 4,80 | 4,80 | 14,40 | 4,80 |
| | J3 | 5,20 | 4,40 | 4,00 | 13,60 | 4,53 |
| | | 46,80 | 41,00 | 35,80 | 123,60 | 4,58 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

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

$$= \frac{123,60^2}{3 \times 9}$$

$$FK = 565,81$$

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

$$= (4,80^2 + 4,00^2 + \dots + 4,00^2) - 565,81$$

$$JK \text{ Total} = 12,59$$

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

$$= \frac{(46,80^2) + (41,00^2) + (35,80^2)}{3 \times 3} - 565,81$$

$$JK \text{ Kelompok} = 6,73$$

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

$$= \frac{(12,40^2) + (12,60^2) + \dots + (13,60^2)}{3} - 565,81$$

$$JK \text{ Kombinasi Perlakuan} = 3,17$$

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

$$= 12,59 - 6,73 - 3,17$$

$$JK \text{ Galat} = 2,68$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUPUK PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------------|--------------|---------------|--------------|
| | P0 | P1 | P2 | | |
| J1 | 12,40 | 13,20 | 14,80 | 40,40 | 13,47 |
| J2 | 12,60 | 15,80 | 14,40 | 42,80 | 14,27 |
| J3 | 13,20 | 13,60 | 13,60 | 40,40 | 13,47 |
| TOTAL A | 38,20 | 42,60 | 42,80 | 123,60 | - |
| RATA A | 12,73 | 14,20 | 14,27 | - | 13,73 |

$$\begin{aligned}
 \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\
 &= \frac{(38,20^2) + (42,60^2) + (42,80^2)}{3 \times 3} - 565,81
 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 1,50$$

$$\begin{aligned}
 \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\
 &= \frac{(40,40^2) + (42,80^2) + (40,40^2)}{3 \times 3} - 565,81
 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 0,43$$

$$\begin{aligned}
 \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\
 &= 2,68 - 1,50 - 0,43
 \end{aligned}$$

$$\text{JK Interaksi AB} = 1,24$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|--------------|-----------|
| KELOMPOK | 2 | 6,73 | 3,36 | 20,053 | 3,63 |
| KOMBINASI P DAN JT | 8 | 3,17 | 0,40 | 2,364 | 2,59 |
| PHONSKA | 2 | 1,50 | 0,75 | 4,477 | 3,63 |
| JARAK TANAM | 2 | 0,43 | 0,21 | 1,272 | 3,63 |
| INTERAKSI | 4 | 1,24 | 0,31 | 1,854 | 3,01 |
| GALAT | 16 | 2,68 | 0,17 | | |
| TOTAL | 26 | 12,59 | | | |

$$\text{Koefisien Keragaman} = 8,95 \%$$

$$\begin{aligned}
 \text{Uji Lanjut BNT 5 \% (Phonska)} &= t_{(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\
 &= t_{0,05(16)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\
 &= 2,120 \times \sqrt{\frac{2 \times 0,17}{3 \times 3}} \\
 &= 0,41
 \end{aligned}$$

Lampiran 5. Analisis Sidik Ragam Umur Keluar Bunga

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|--------|--------|----------|------------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 77,00 | 78,80 | 76,80 | 232,60 | 77,53 |
| | J2 | 71,60 | 73,80 | 74,40 | 219,80 | 73,27 |
| | J3 | 73,60 | 69,20 | 71,00 | 213,80 | 71,27 |
| P1 | J1 | 65,20 | 72,00 | 77,00 | 214,20 | 71,40 |
| | J2 | 65,00 | 76,40 | 71,20 | 212,60 | 70,87 |
| | J3 | 68,60 | 73,60 | 65,00 | 207,20 | 69,07 |
| P2 | J1 | 72,00 | 74,20 | 70,40 | 216,60 | 72,20 |
| | J2 | 69,20 | 70,40 | 76,60 | 216,20 | 72,07 |
| | J3 | 63,60 | 65,80 | 73,60 | 203,00 | 67,67 |
| | | 625,80 | 654,20 | 656,00 | 1936,00 | 71,70 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

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

$$= \frac{1936,00^2}{3 \times 9}$$

$$FK = 138818,37$$

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

$$= (77,00^2 + 78,80^2 + \dots + 73,60^2) - 138818,37$$

$$JK \text{ Total} = 466,35$$

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

$$= \frac{(625,80^2) + (654,20^2) + (656,00^2)}{3 \times 3} - 138818,37$$

$$JK \text{ Kelompok} = 63,77$$

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

$$= \frac{(232,60^2) + (219,80^2) + \dots + (203,00^2)}{3} - 138818,37$$

$$JK \text{ Kombinasi Perlakuan} = 183,12$$

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

$$= 466,35 - 63,77 - 183,12$$

$$JK \text{ Galat} = 219,45$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUPUK PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|--------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 232,60 | 214,20 | 216,60 | 663,40 | 221,13 |
| J2 | 219,80 | 212,60 | 216,20 | 648,60 | 216,20 |
| J3 | 213,80 | 207,20 | 203,00 | 624,00 | 208,00 |
| TOTAL A | 666,20 | 634,00 | 635,80 | 1936,00 | - |
| RATA A | 222,07 | 211,33 | 211,93 | - | 215,11 |

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

$$= \frac{(666,20^2) + (634,00^2) + (635,80^2)}{3 \times 3} - 138818,37$$

$$\text{JK Pemupukan (A)} = 72,75$$

$$\text{JK Jarak Tanam (B)} = \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK}$$

$$= \frac{(663,40^2) + (648,60^2) + (624,00^2)}{3 \times 3} - 138818,37$$

$$\text{JK Jarak Tanam (B)} = 88,02$$

$$\text{JK Interaksi AB} = \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam}$$

$$= 183,12 - 72,75 - 88,02$$

$$\text{JK Interaksi AB} = 22,35$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|-------|-----------|
| KELOMPOK | 2 | 63,77 | 31,89 | 2,325 | 3,63 |
| KOMBINASI P DAN JT | 8 | 183,12 | 22,89 | 1,669 | 2,59 |
| PHONSKA | 2 | 72,75 | 36,37 | 2,652 | 3,63 |
| JARAK TANAM | 2 | 88,02 | 44,01 | 3,209 | 3,63 |
| INTERAKSI | 4 | 22,35 | 5,59 | 0,407 | 3,01 |
| GALAT | 16 | 219,45 | 13,72 | | |
| TOTAL | 26 | 466,35 | | | |

$$\text{Koefisien Keragaman} = 5,17 \%$$

Lampiran 6. Analisis Sidik Ragam Jumlah Buah Perpetak

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|-------|-------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 4,60 | 5,00 | 5,00 | 14,60 | 4,87 |
| | J2 | 5,20 | 4,40 | 4,80 | 14,40 | 4,80 |
| | J3 | 4,60 | 4,80 | 4,60 | 14,00 | 4,67 |
| P1 | J1 | 12,80 | 8,60 | 10,20 | 31,60 | 10,53 |
| | J2 | 9,00 | 5,40 | 17,80 | 32,20 | 10,73 |
| | J3 | 9,00 | 5,20 | 8,20 | 22,40 | 7,47 |
| P2 | J1 | 30,20 | 5,20 | 14,20 | 49,60 | 16,53 |
| | J2 | 33,20 | 13,20 | 11,60 | 58,00 | 19,33 |
| | J3 | 7,20 | 7,00 | 20,40 | 34,60 | 11,53 |
| | | 115,80 | 58,80 | 96,80 | 271,40 | 10,05 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{271,40^2}{3 \times 9} \\
 \text{FK} &= 2728,07 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (4,60^2 + 5,00^2 + \dots + 20,40^2) - 2728,07 \\
 \text{JK Total} &= 1490,47 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{P} \times \text{JT}} - \text{FK} \\
 &= \frac{(115,80^2) + (58,80^2) + (96,80^2)}{3 \times 3} - 2728,07 \\
 \text{JK Kelompok} &= 187,19 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(14,60^2) + (14,40^2) + \dots + (34,60^2)}{3} - 2728,07 \\
 \text{JK Kombinasi Perlakuan} &= 663,59 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 1490,47 - 187,19 - 663,59 \\
 \text{JK Galat} &= 639,99
 \end{aligned}$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUPUK PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|-------|--------|---------|--------|
| | P0 | P1 | P2 | | |
| J1 | 14,60 | 31,60 | 49,60 | 95,80 | 31,93 |
| J2 | 14,40 | 32,20 | 58,00 | 104,60 | 34,87 |
| J3 | 14,00 | 22,40 | 34,60 | 71,00 | 23,67 |
| TOTAL A | 43,00 | 86,20 | 142,20 | 271,40 | - |
| RATA A | 14,33 | 28,73 | 47,40 | - | 30,16 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(43,00^2) + (86,20^2) + (142,20^2)}{3 \times 3} - 2728,07 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 549,74$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(95,80^2) + (104,60^2) + (71,00^2)}{3 \times 3} - 2728,07 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 67,46$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 663,59 - 549,74 - 67,46 \end{aligned}$$

$$\text{JK Interaksi AB} = 46,40$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|--------------|-----------|
| KELOMPOK | 2 | 187,19 | 93,59 | 2,340 | 3,63 |
| KOMBINASI P DAN JT | 8 | 663,59 | 82,95 | 2,074 | 2,59 |
| PHONSKA | 2 | 549,74 | 274,87 | 6,872 | 3,63 |
| JARAK TANAM | 2 | 67,46 | 33,73 | 0,843 | 3,63 |
| INTERAKSI | 4 | 46,40 | 11,60 | 0,290 | 3,01 |
| GALAT | 16 | 639,99 | 40,00 | | |
| TOTAL | 26 | 1490,77 | | | |

$$\text{Koefisien Keragaman} = 62,92 \%$$

$$\begin{aligned} \text{Uji Lanjut BNT 5 \% (Phonska)} &= t_{(v)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\ &= t_{0,05(16)} \times \sqrt{\frac{2 \times \text{KT Galat}}{\text{Ulangan} \times \text{Level Jarak Tanam}}} \\ &= 2,120 \times \sqrt{\frac{2 \times 40,00}{3 \times 3}} \\ &= 6,32 \end{aligned}$$

Lampiran 7. Analisis Sidik Ragam Berat Buah Perpetak

| Pemupukan (Faktor A) | Jarak Tanam (Faktor B) | Ulangan | | | Total AB | Rata AB |
|-------------------------|---------------------------|---------|---------|---------|----------|---------|
| | | 1 | 2 | 3 | | |
| P0 | J1 | 372,00 | 389,00 | 424,00 | 1185,00 | 395,00 |
| | J2 | 343,00 | 366,00 | 429,00 | 1138,00 | 379,33 |
| | J3 | 351,00 | 317,00 | 423,00 | 1091,00 | 363,67 |
| P1 | J1 | 408,00 | 375,00 | 388,00 | 1171,00 | 390,33 |
| | J2 | 374,00 | 368,00 | 370,00 | 1112,00 | 370,67 |
| | J3 | 370,00 | 396,00 | 351,00 | 1117,00 | 372,33 |
| P2 | J1 | 490,00 | 390,00 | 448,00 | 1328,00 | 442,67 |
| | J2 | 379,00 | 369,00 | 450,00 | 1198,00 | 399,33 |
| | J3 | 410,00 | 411,00 | 335,00 | 1156,00 | 385,33 |
| | | 3497,00 | 3381,00 | 3618,00 | 10496,00 | 388,74 |
| TK | | TK1 | TK2 | TK3 | TIJK | IJK |

$$\begin{aligned}
 \text{FK} &= \frac{\text{TIJK}^2}{\text{UL} \times \text{PERLAKUAN}} \\
 &= \frac{10496,00^2}{3 \times 9} \\
 \text{FK} &= 4080222,81 \\
 \text{JK Total} &= T(Y \text{ IJK}^2) - \text{FK} \\
 &= (372,00^2 + 343,00^2 + \dots + 335,00^2) - 4080222,81 \\
 \text{JK Total} &= 38725,19 \\
 \text{JK Kelompok} &= \frac{\text{TK}^2}{\text{P} \times \text{JT}} - \text{FK} \\
 &= \frac{(3497,00^2) + (3381,00^2) + (3618,00^2)}{3 \times 3} - 4080222,81 \\
 \text{JK Kelompok} &= 3120,96 \\
 \text{JK Kombinasi Perlakuan} &= \frac{\text{Total AB}^2}{\text{UL}} - \text{FK} \\
 &= \frac{(1185,00^2) + (1138,00^2) + \dots + (1156,00^2)}{3} - 4080222,81 \\
 \text{JK Kombinasi Perlakuan} &= 13159,85 \\
 \text{JK Galat} &= \text{JK Total} - \text{JK Kelompok} - \text{JK Kombinasi Perlakuan} \\
 &= 38725,19 - 3120,96 - 13159,85 \\
 \text{JK Galat} &= 22444,37
 \end{aligned}$$

| FAKTOR B (JARAK TANAM) | FAKTOR A (PUPUK PHONSKA) | | | TOTAL B | RATA B |
|---------------------------|--------------------------|---------|---------|----------|---------|
| | P0 | P1 | P2 | | |
| J1 | 1185,00 | 1171,00 | 1328,00 | 3684,00 | 1228,00 |
| J2 | 1138,00 | 1112,00 | 1198,00 | 3448,00 | 1149,33 |
| J3 | 1091,00 | 1117,00 | 1156,00 | 3364,00 | 1121,33 |
| TOTAL A | 3414,00 | 3400,00 | 3682,00 | 10496,00 | - |
| RATA A | 1138,00 | 1133,33 | 1227,33 | - | 1166,22 |

$$\begin{aligned} \text{JK Pemupukan (A)} &= \frac{(\text{Total Pemupukan(A)})^2}{\text{UL X B}} - \text{FK} \\ &= \frac{(3414,00^2) + (3400,00^2) + (3682,00^2)}{3 \times 3} - 4080222,81 \end{aligned}$$

$$\text{JK Pemupukan (A)} = 5612,74$$

$$\begin{aligned} \text{JK Jarak Tanam (B)} &= \frac{(\text{Total Jarak Tanam(B)})^2}{\text{UL X A}} - \text{FK} \\ &= \frac{(3684,00^2) + (3448,00^2) + (3364,00^2)}{3 \times 3} - 4080222,81 \end{aligned}$$

$$\text{JK Jarak Tanam (B)} = 6116,74$$

$$\begin{aligned} \text{JK Interaksi AB} &= \text{JK K. Perlakuan} - \text{JK Pemupukan} - \text{JK J. Tanam} \\ &= 13159,85 - 5612,74 - 6116,74 \end{aligned}$$

$$\text{JK Interaksi AB} = 1430,37$$

Tabel Sidik Ragam

| SK | DERAJAT BEBAS | JUMLAH KUADRAT | KUADRAT TENGAH | FHIT | FTABEL 5% |
|--------------------|---------------|----------------|----------------|-------|-----------|
| KELOMPOK | 2 | 3120,96 | 1560,48 | 1,112 | 3,63 |
| KOMBINASI P DAN JT | 8 | 13159,85 | 1644,98 | 1,173 | 2,59 |
| PHONSKA | 2 | 5612,74 | 2806,37 | 2,001 | 3,63 |
| JARAK TANAM | 2 | 6116,74 | 3058,37 | 2,180 | 3,63 |
| INTERAKSI | 4 | 1430,37 | 357,59 | 0,255 | 3,01 |
| GALAT | 16 | 22444,37 | 1402,77 | | |
| TOTAL | 26 | 38725,19 | | | |

$$\text{Koefisien Keragaman} = 9,63 \%$$

Lampiran 8. Dokumentasi



Gambar 1. Pengukuran Bedengan



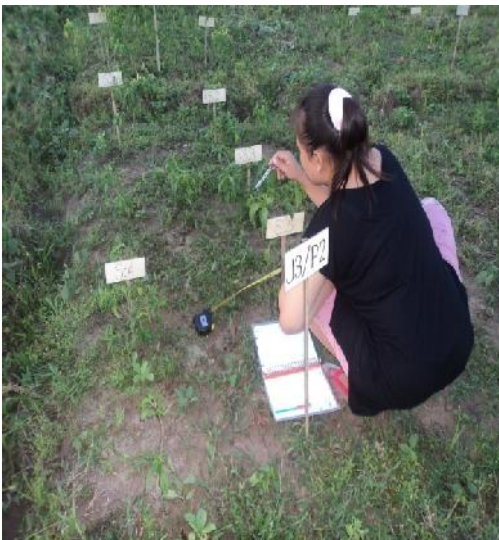
Gambar 2. Bedengan Siap Tanam



Gambar 3. Saat penugalan



Gambar 4. Saat penanaman



Gambar 5. Pengamatan Jumlah Daun



Gambar 6. Pengamatan Tinggi Tanaman



Gambar 7. Saat Mulai Keluar Bunga



Gambar 8. Pengamatan Terakhir



Gambar 9. Saat Buah mulai Matang



Gambar 10. Hama Utama

Lampiran 9. Deskripsi cabai varietas *Malita FM*.

| | |
|-------------------------|--|
| Tanaman | : Cabai Rawit |
| Asal | : Gorontalo |
| Golongan Varietas | : Lokal |
| Umur mulai berbunga | : 3 bulan sesudah semai/2 bulan setelah tanam |
| Tinggi tanaman | : 88,3-140,3 cm. |
| Kerapatan kanop | : kompak |
| Bentuk penampang batang | : pada stadium muda berbentuk persegi setelah memasuki stadium dewasa / tua berbentuk bulat. |
| Warna batang | : hijau kecoklatan |
| Bentuk daun | : bulat telur |
| Ukuran daun | : panjang 3,1-6,5 cm dan lebar 20-35 cm. |
| Warna daun | : hijau |
| Tepi daun | : rata |
| Ujung daun | : runcing |
| Permukaan daun | : halus |
| Warna kalopak | : hijau |
| Warna mahkota | : krem |
| Warna benang sari | : krem |
| Jumlah mahkota | : 5-6 helai |
| Jumlah benang sari | : 5-6 |
| Warna tangkai bunga | : hijau |
| Bentuk buah | : bulat panjang |
| Ukuran buah | : panjang 4,5 cm |
| Warna buah muda | : hijau keunguan |
| Warna buah tua | : merah jingga |
| Permukaan kulit buah | : halus mengkilap |
| Rasa buah | : sangat pedas |
| Berta perbuah | : 1 gr |
| Karbohidrat | : 8,9 % |
| Kalsium | : 0,04 % |
| Fosfor | : 1,96 ppm |
| Zat besi | : 0,006 % |
| Vitamin c | : 67,92 mg / 100 gr |
| Air | : 78,56 % (Mario, 2007) |