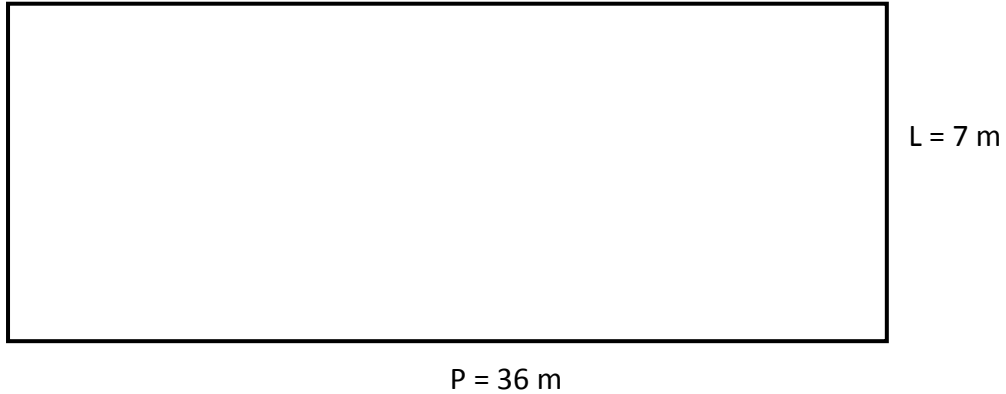


LAMPIRAN

Lampiran 1. Lay out penelitian

PETAK



$P = 36\text{ m}$
 $L = 7\text{ m}$
 $LS = 252\text{ m}^2$

ACAKAN

| No | U1 | U2 | U3 |
|----------|------|------|------|
| 1/13/25 | M1P2 | M4P3 | M4P1 |
| 2/14/26 | M2P1 | M4P1 | M2P1 |
| 3/15/27 | M4P1 | M3P3 | M3P1 |
| 4/16/28 | M3P2 | M1P2 | M3P2 |
| 5/17/29 | M2P3 | M4P2 | M2P2 |
| 6/18/30 | M1P3 | M2P2 | M3P3 |
| 7/19/31 | M3P1 | M1P1 | M1P2 |
| 8/20/32 | M2P2 | M3P1 | M2P3 |
| 9/21/33 | M1P1 | M3P2 | M1P3 |
| 10/22/34 | M4P2 | M1P3 | M1P1 |
| 11/23/35 | M4P3 | M2P3 | M4P3 |
| 12/24/36 | M3P3 | M2P1 | M4P2 |

M1 = Tanpa mulsa
 M2 = Mulsa kacang tanah
 M3 = Mulsa plastik
 M4 = Mulsa jerami
 P1 = Nitrea,
 P2 = Urea,
 P3 = ZA,

Lay out

| | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | | | | | | | | | | 2m | |
| U1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1m |
| U2 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 1m |
| U3 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 1m |

Lampiran 2. Umur berbunga pertama kali

| | tabel kombinasi | | | | rata-rata |
|-----------|-----------------|-------|-------|--------|-----------|
| | 1 | 2 | 3 | jumlah | |
| M1P1 | 41 | 41,6 | 41 | 123,6 | 41,20 |
| M1P2 | 40,8 | 41,6 | 41,6 | 124 | 41,33 |
| M1P3 | 41,4 | 41,2 | 41,4 | 124 | 41,33 |
| M2P1 | 43 | 42,8 | 43,2 | 129 | 43,00 |
| M2P2 | 42,6 | 43,4 | 43,4 | 129,4 | 43,13 |
| M2P3 | 43 | 43,2 | 43,2 | 129,4 | 43,13 |
| M3P1 | 40,2 | 40,6 | 40,8 | 121,6 | 40,53 |
| M3P2 | 40,4 | 40,8 | 41,6 | 122,8 | 40,93 |
| M3P3 | 40,8 | 40,2 | 40,2 | 121,2 | 40,40 |
| M4P1 | 41 | 41 | 41,2 | 123,2 | 41,07 |
| M4P2 | 41 | 40,6 | 41 | 122,6 | 40,87 |
| M4P3 | 41 | 41,4 | 41,2 | 123,6 | 41,20 |
| Total | 496,2 | 498,4 | 499,8 | 1494,4 | 498,1 |
| rata-rata | 41 | 41,5 | 41,7 | 124,5 | 41,5 |

Tabel dua arah

| Konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|-------|--------|--------|-----------|------|
| | P1 | P2 | P3 | | | |
| M1 | 123,6 | 124 | 124 | 371,6 | 123,9 | 41,3 |
| M2 | 129 | 129,4 | 129,4 | 387,8 | 129,3 | 43,1 |
| M3 | 121,6 | 122,8 | 121,2 | 365,6 | 121,9 | 40,6 |
| M4 | 123,2 | 122,6 | 123,6 | 369,4 | 123,1 | 41,0 |
| Jumlah | 497,4 | 499 | 498,2 | 1494,4 | | |
| rata-rata | 124,35 | 124,7 | 124,55 | | | |
| | 41,5 | 41,6 | 41,5 | | | |

$$FK = 62034,20444$$

Langkah 1. Mencari F.K

$$\begin{aligned}
 F.K &= \frac{G^2}{rmp} \\
 &= \frac{(1494,4)^2}{(3)(4)(3)} = 62034,20444
 \end{aligned}$$

Langkah 2. mencari db (derajat bebas)

| ANOVA | | |
|-----------|-------------|------|
| SK | Db | |
| Ulangan | R - 1 | = 2 |
| Perlakuan | MP - 1 | = 11 |
| Mulsa (M) | M - 1 | = 3 |
| Pupuk (P) | P - 1 | = 2 |
| M X P | (M-1)(P-1) | = 6 |
| Galat | (r-1)(MP-1) | = 22 |
| Total | RMP - 1 | = 35 |

Langkah 3. Mencari JK

$$\begin{aligned} \text{JK total} &= \sum x^2 - F.K \\ &= [(41)^2 + (41,6)^2 + \dots + (41,2)^2] - 62034,20444 \\ &= 35,23556 \end{aligned}$$

$$\begin{aligned} \text{JK ulangan} &= \frac{\sum R^2}{MP} - F.K \\ &= \frac{(496,2)^2 + (498,4)^2 + (499,8)^2}{(3)(4)} - 62034,20444 \\ &= 0,548889 \end{aligned}$$

$$\begin{aligned} \text{JK perlakuan} &= \frac{\sum T^2}{r} - F.K \\ &= \frac{(123,6)^2 + \dots + (123,6)^2}{3} - 62034,20444 \\ &= 32,62222 \end{aligned}$$

$$\begin{aligned} \text{JK galat} &= \text{JK total} - \text{JK ulangan} - \text{JK perlakuan} \\ &= 35,23556 - 0,548889 - 32,62222 \\ &= 2,064444 \end{aligned}$$

$$\begin{aligned}
 \text{JK M (mulsa)} &= \frac{\sum M^2}{rp} - \text{F.K} \\
 &= \frac{(371,6)^2 + (387,8)^2 + (365,6)^2 + (369,4)^2}{(3)(3)} - 62034,20444 \\
 &= 31,92
 \end{aligned}$$

$$\begin{aligned}
 \text{JK P (pupuk)} &= \frac{\sum P^2}{rm} - \text{F.K} \\
 &= \frac{(497,4)^2 + (499)^2 + (498,2)^2 + \dots}{(3)(4)} - 62034,20444 \\
 &= 0,082222
 \end{aligned}$$

$$\begin{aligned}
 \text{JK M x P} &= \text{JK perlakuan} - \text{JK M (mulsa)} - \text{JK P (pupuk)} \\
 &= 32,62222 - 31,92 - 0,082222 = 0,62
 \end{aligned}$$

Langkah 4. Mencari KT

$$\begin{aligned}
 \text{KT M (mulsa)} &= \frac{\text{JK M}}{M-1} \\
 &= \frac{31,92}{3} = 10,64
 \end{aligned}$$

$$\begin{aligned}
 \text{KT P (pupuk)} &= \frac{\text{JK P}}{P-1} \\
 &= \frac{0,082222}{2} = 0,041111
 \end{aligned}$$

$$\begin{aligned}
 \text{KT M x P} &= \frac{\text{JK M x P}}{(m-1)(p-1)} \\
 &= \frac{10,64 \times 0,041111}{(3)(2)} = 0,103333
 \end{aligned}$$

$$\begin{aligned}
 \text{KT Galat} &= \frac{\text{JK galat}}{(r-1)(mp-1)} \\
 &= \frac{2,064444}{(2)[(4)(3)-1]} = 0,093838
 \end{aligned}$$

Langkah 5. Mencari F- Hitung

$$\begin{aligned}
 F M (\text{mulsa}) &= \frac{KT M}{KT \text{ galat}} \\
 &= \frac{10,64}{0,093838} = 113,3864 \\
 F P (\text{pupuk}) &= \frac{KT P}{KT \text{ galat}} \\
 &= \frac{0,041111}{0,093838} = 0,438105 \\
 F M \times P &= \frac{KT M \times P}{KT \text{ galat}} \\
 &= \frac{0,103333}{0,093838} = 1,101184
 \end{aligned}$$

Sidik ragam

| ANOVA | | | | F tabel | | | | |
|-----------|----|----------|----------|----------|----------|----------|-----|--|
| SK | db | JK | KT | F Hit | 5% | 1% | not | |
| Ulangan | 2 | 0,548889 | 0,274444 | 2,92465 | 3,443357 | 5,719022 | ns | |
| Perlakuan | 11 | 32,62222 | 2,965657 | 31,60388 | 2,258518 | 3,183742 | ** | |
| M | 3 | 31,92 | 10,64 | 113,3864 | 3,049125 | 4,816606 | ** | |
| P | 2 | 0,082222 | 0,041111 | 0,438105 | 3,443357 | 5,719022 | ns | |
| M X P | 6 | 0,62 | 0,103333 | 1,101184 | 2,549061 | 3,758301 | ns | |
| Galat | 22 | 2,064444 | 0,093838 | | | | | |
| Total | 35 | 35,23556 | | | | | | |

Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 62034,20444
 KK = 4,754535349

Langkah 6. Mencari KK (koefisien keragaman)

$$kk = \frac{\sqrt{KT \text{ galat}}}{\text{rataan total}} \times 100$$

$$kk = \frac{\sqrt{0,093838}}{41,5} \times 100 = 4,754535349$$

Selanjutnya dari analisis sidik ragam akan diketahui pengaruh varietas dari masing masing parameter yang diuji. Apabila berbeda nyata dilakukan pengujian lanjut terhadap nilai rata- rata dengan uji jarak berganda duncan taraf 5%.

| | | | |
|---------|-----------------|--------------|--------------|
| P | 2 | 3 | 4 |
| nilai R | 2,89 | 3,04 | 3,12 |
| SY | SQRT(KTG/(P*r)) | | |
| DMRT | Nilai R * SY | Nilai R * SY | Nilai R * SY |

| | | | |
|------------|---------|---------|---------|
| P | 2 | 3 | 4 |
| nilai R | 2,89 | 3,04 | 3,12 |
| SY | 0,10211 | | |
| nilai DRMT | 0,29510 | 0,31041 | 0,31858 |

Setelah uji jarak berganda duncan taraf 5% telah dilakukan, selanjutnya membandingkan nilai rata-rata dari tabel interaksi dari terendah ke tertinggi dengan nilai DMRT yang sesuai dengan jarak antar kolom, kemudian ditandai dengan notasi menurut perbedaan maupun persamaannya.

Contoh menentukan notasi pada parameter umur berbunga.

| Perlakuan | Rataan hasil (hst) | |
|-----------|--------------------|-----|
| M3 | 40,6 | l a |
| M4 | 41 | b |
| M1 | 41,3 | b |
| M2 | 43,1 | l c |

Lampiran 3. Jumlah cabang umur 21 hari.

| Perlakuan | tabel kombinasi | | | | jumlah | rata-rata |
|-----------|-----------------|-----|-----|--|--------|-----------|
| | 1 | 2 | 3 | | | |
| M1P1 | 2 | 2,2 | 2 | | 6,2 | 2,07 |
| M1P2 | 1,8 | 1,8 | 2 | | 5,6 | 1,87 |
| M1P3 | 2 | 2,2 | 2,2 | | 6,4 | 2,13 |
| M2P1 | 1,4 | 1,6 | 1,6 | | 4,6 | 1,53 |
| M2P2 | 1,6 | 1,4 | 1,6 | | 4,6 | 1,53 |
| M2P3 | 1,4 | 1,6 | 1,4 | | 4,4 | 1,47 |
| M3P1 | 2,6 | 2,8 | 2,4 | | 7,8 | 2,60 |
| M3P2 | 2,6 | 2,6 | 2,4 | | 7,6 | 2,53 |
| M3P3 | 2,4 | 2,6 | 2,8 | | 7,8 | 2,60 |
| M4P1 | 2,8 | 2,2 | 2 | | 7 | 2,33 |
| M4P2 | 2,4 | 2,4 | 2,2 | | 7 | 2,33 |
| M4P3 | 2,6 | 2,6 | 2,4 | | 7,6 | 2,53 |
| Total | 25,6 | 26 | 25 | | 76,6 | 25,5 |
| rata-rata | 2 | 2,2 | 2,1 | | 6,4 | 2,1 |

Tabel dua arah

| Konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|-----|------|--------|-----------|-----|
| | P1 | P2 | P3 | | | |
| M1 | 6,2 | 5,6 | 6,4 | 18,2 | 6,1 | 2,0 |
| M2 | 4,6 | 4,6 | 4,4 | 13,6 | 4,5 | 1,5 |
| M3 | 7,8 | 7,6 | 7,8 | 23,2 | 7,7 | 2,6 |
| M4 | 7 | 7 | 7,6 | 21,6 | 7,2 | 2,4 |
| Jumlah | 25,6 | 25 | 26,2 | 76,6 | | |
| rata-rata | 6,4 | 6,2 | 6,55 | | | |
| | 2,1 | 2,1 | 2,2 | | | |

Sidik ragam

| ANOVA | | | | F tabel | | | |
|-----------|----|----------|----------|----------|----------|----------|-----|
| SK | db | JK | KT | F Hit | 5% | 1% | not |
| Ulangan | 2 | 0,042222 | 0,021111 | 0,659306 | 3,443357 | 5,719022 | ns |
| Perlakuan | 11 | 6,225556 | 0,56596 | 17,67508 | 2,258518 | 3,183742 | ** |
| M | 3 | 6,012222 | 2,004074 | 62,5878 | 3,049125 | 4,816606 | ** |
| P | 2 | 0,082222 | 0,041111 | 1,283912 | 3,443357 | 5,719022 | ns |
| M X P | 6 | 0,131111 | 0,021852 | 0,68244 | 2,549061 | 3,758301 | ns |
| Galat | 22 | 0,704444 | 0,03202 | | | | |
| Total | 35 | 6,972222 | | | | | |

Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 162,9878
 KK = 12,2673

Lampiran 4. Jumlah cabang umur 42 hari.

| Perlakuan | tabel kombinasi | | | | jumlah | rata-rata |
|-----------|-----------------|------|------|--|--------|-----------|
| | 1 | 2 | 3 | | | |
| M1P1 | 5,4 | 5,2 | 4,6 | | 15,2 | 5,07 |
| M1P2 | 4,8 | 4,8 | 5 | | 14,6 | 4,87 |
| M1P3 | 4,6 | 5 | 4,8 | | 14,4 | 4,80 |
| M2P1 | 3,4 | 3,4 | 3,8 | | 10,6 | 3,53 |
| M2P2 | 3,6 | 3,8 | 3,6 | | 11 | 3,67 |
| M2P3 | 3,6 | 3,8 | 3,4 | | 10,8 | 3,60 |
| M3P1 | 5,6 | 6 | 5,8 | | 17,4 | 5,80 |
| M3P2 | 5,8 | 5,8 | 5,6 | | 17,2 | 5,73 |
| M3P3 | 5,6 | 5,6 | 6 | | 17,2 | 5,73 |
| M4P1 | 5,6 | 5 | 5 | | 15,6 | 5,20 |
| M4P2 | 5,2 | 5,4 | 5 | | 15,6 | 5,20 |
| M4P3 | 5,6 | 5,4 | 5,6 | | 16,6 | 5,53 |
| Total | 58,8 | 59,2 | 58,2 | | 176,2 | 58,7 |
| rata-rata | 5 | 4,9 | 4,9 | | 14,7 | 4,9 |

Tabel dua arah

| konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|------|-------|--------|-----------|-----|
| | P1 | P2 | P3 | | | |
| M1 | 15,2 | 14,6 | 14,4 | 44,2 | 14,7 | 4,9 |
| M2 | 10,6 | 11 | 10,8 | 32,4 | 10,8 | 3,6 |
| M3 | 17,4 | 17,2 | 17,2 | 51,8 | 17,3 | 5,8 |
| M4 | 15,6 | 15,6 | 16,6 | 47,8 | 15,9 | 5,3 |
| jumlah | 58,8 | 58 | 59 | 176,2 | | |
| rata-rata | 14,7 | 14,6 | 14,75 | | | |
| | 4,9 | 4,9 | 4,9 | | | |

Sidik ragam

| ANOVA | | | F tabel | | | | |
|-----------|----|----------|----------|----------|----------|----------|-----|
| SK | db | JK | KT | F Hit | 5% | 1% | not |
| Ulangan | 2 | 0,042222 | 0,021111 | 0,39212 | 3,443357 | 5,719022 | ns |
| Perlakuan | 11 | 23,69222 | 2,153838 | 40,00563 | 2,258518 | 3,183742 | ** |
| M | 3 | 23,31889 | 7,772963 | 144,3759 | 3,049125 | 4,816606 | ** |
| P | 2 | 0,015556 | 0,007778 | 0,144465 | 3,443357 | 5,719022 | ns |
| M X P | 6 | 0,357778 | 0,05963 | 1,107567 | 2,549061 | 3,758301 | ns |
| Galat | 22 | 1,184444 | 0,053838 | | | | |
| Total | 35 | 24,91889 | | | | | |

Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 862,4011
 KK = 10,48804

Lampiran 5. Jumlah polong pertanaman.

| Perlakuan | tabel kombinasi | | | | |
|-----------|-----------------|-------|-------|--------|-----------|
| | 1 | 2 | 3 | jumlah | rata-rata |
| M1P1 | 29,8 | 27,4 | 28,2 | 85,4 | 28,47 |
| M1P2 | 28,4 | 28,4 | 28,6 | 85,4 | 28,47 |
| M1P3 | 29,2 | 27,8 | 29,2 | 86,2 | 28,73 |
| M2P1 | 20,4 | 19,6 | 19,2 | 59,2 | 19,73 |
| M2P2 | 20,6 | 20,2 | 20,2 | 61 | 20,33 |
| M2P3 | 21,8 | 20,6 | 22 | 64,4 | 21,47 |
| M3P1 | 35,4 | 34,6 | 36,2 | 106,2 | 35,40 |
| M3P2 | 35,4 | 36,4 | 35,6 | 107,4 | 35,80 |
| M3P3 | 35,6 | 36 | 36,4 | 108 | 36,00 |
| M4P1 | 29,6 | 30 | 30 | 89,6 | 29,87 |
| M4P2 | 29,4 | 28,2 | 29,2 | 86,8 | 28,93 |
| M4P3 | 30,6 | 29 | 28,6 | 88,2 | 29,40 |
| Total | 346,2 | 338,2 | 343,4 | 1027,8 | 342,6 |
| rata-rata | 29 | 28,2 | 28,6 | 85,7 | 28,6 |

Tabel dua arah

| konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|-------|-------|--------|-----------|------|
| | P1 | P2 | P3 | | | |
| M1 | 85,4 | 85,4 | 86,2 | 257 | 85,7 | 28,6 |
| M2 | 59,2 | 61 | 64,4 | 184,6 | 61,5 | 20,5 |
| M3 | 106,2 | 107,4 | 108 | 321,6 | 107,2 | 35,7 |
| M4 | 89,6 | 86,8 | 88,2 | 264,6 | 88,2 | 29,4 |
| jumlah | 340,4 | 341 | 346,8 | 1027,8 | | |
| rata-rata | 85,1 | 85,15 | 86,7 | | | |
| | 28,4 | 28,4 | 28,9 | | | |

Sidik ragam

| ANOVA | | | | F tabel | | | |
|-----------|----|----------|-----------|----------|----------|----------|-----|
| SK | db | JK | KT | F Hit | 5% | 1% | not |
| Ulangan | 2 | 2,746667 | 1,3733333 | 3,392216 | 3,443357 | 5,719022 | ns |
| Perlakuan | 11 | 1059,177 | 96,288788 | 237,8391 | 2,258518 | 3,183742 | ** |
| M | 3 | 1052,519 | 350,83963 | 866,5949 | 3,049125 | 4,816606 | ** |
| P | 2 | 2,206667 | 1,1033333 | 2,725299 | 3,443357 | 5,719022 | ns |
| M X P | 6 | 4,451111 | 0,7418519 | 1,832418 | 2,549061 | 3,758301 | ns |
| Galat | 22 | 8,906667 | 0,4048485 | | | | |
| Total | 35 | 1070,83 | | | | | |

Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 29343,69
 KK = 11,90812

Lampiran 6. Jumlah biji pertanaman.

| Perlakuan | tabel kombinasi | | | Jumlah | rata-rata |
|-----------|-----------------|--------|-------|---------|-----------|
| | 1 | 2 | 3 | | |
| M1P1 | 514,6 | 454,4 | 449 | 1418 | 472,67 |
| M1P2 | 455,2 | 464,4 | 432 | 1351,6 | 450,53 |
| M1P3 | 458,6 | 460 | 454,2 | 1372,8 | 457,60 |
| M2P1 | 319,6 | 355,4 | 366 | 1041 | 347,00 |
| M2P2 | 306,2 | 370,4 | 339,8 | 1016,4 | 338,80 |
| M2P3 | 395,8 | 362 | 319,4 | 1077,2 | 359,07 |
| M3P1 | 617,6 | 644,2 | 647,2 | 1909 | 636,33 |
| M3P2 | 622,2 | 645,8 | 639,2 | 1907,2 | 635,73 |
| M3P3 | 597,4 | 631,8 | 619,2 | 1848,4 | 616,13 |
| M4P1 | 445,2 | 445,8 | 418,6 | 1309,6 | 436,53 |
| M4P2 | 490,2 | 443,2 | 442,4 | 1375,8 | 458,60 |
| M4P3 | 520,6 | 421,8 | 407 | 1349,4 | 449,80 |
| Total | 5743,2 | 5699,2 | 5534 | 16976,4 | 5658,8 |
| rata-rata | 479 | 474,9 | 461,2 | 1414,7 | 471,6 |

Tabel dua arah

| konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|---------|---------|---------|-----------|-------|
| | P1 | P2 | P3 | | | |
| M1 | 1418 | 1351,6 | 1372,8 | 4142,4 | 1380,8 | 460,3 |
| M2 | 1041 | 1016,4 | 1077,2 | 3134,6 | 1044,9 | 348,3 |
| M3 | 1909 | 1907,2 | 1848,4 | 5664,6 | 1888,2 | 629,4 |
| M4 | 1309,6 | 1375,8 | 1349,4 | 4034,8 | 1344,9 | 448,3 |
| jumlah | 5677,6 | 5651 | 5647,8 | 16976,4 | | |
| rata-rata | 1419,4 | 1412,75 | 1411,95 | | | |
| | 473,1 | 470,9 | 470,7 | | | |

Sidik ragam

| ANOVA | | | | F tabel | | | |
|-----------|----|----------|----------|----------|----------|----------|-----|
| SK | db | JK | KT | F Hit | 5% | 1% | not |
| Ulangan | 2 | 1,179414 | 0,589707 | 1,210549 | 3,443357 | 5,719022 | ns |
| Perlakuan | 11 | 191,102 | 17,37291 | 35,66305 | 2,258518 | 3,183742 | ** |
| M | 3 | 189,5449 | 63,18164 | 129,6991 | 3,049125 | 4,816606 | ** |
| P | 2 | 0,020055 | 0,010027 | 0,020584 | 3,443357 | 5,719022 | ns |
| M X P | 6 | 1,536996 | 0,256166 | 0,525857 | 2,549061 | 3,758301 | ns |
| Galat | 22 | 10,71708 | 0,48714 | | | | |
| Total | 35 | 202,9985 | | | | | |

Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 16791,4
 KK = 133,245

transformasi 1

| Perlakuan | | tabel kombinasi | | | |
|-----------|----------|--------------------|----------|----------|-----------|
| | 1 | 2 | 3 | jumlah | rata-rata |
| M1P1 | 22,69581 | 21,32838 | 21,20142 | 65,22561 | 21,74187 |
| M1P2 | 21,34713 | 21,56154 | 20,79663 | 63,70531 | 21,2351 |
| M1P3 | 21,42662 | 21,45926 | 21,3237 | 64,20958 | 21,40319 |
| M2P1 | 17,89134 | 18,86531 | 19,14419 | 55,90084 | 18,63361 |
| M2P2 | 17,51285 | 19,25876 | 18,44722 | 55,21884 | 18,40628 |
| M2P3 | 19,90729 | 19,03943 | 17,88575 | 56,83247 | 18,94416 |
| M3P1 | 24,86162 | 25,39094 | 25,44995 | 75,70251 | 25,23417 |
| M3P2 | 24,95396 | 25,42243 | 25,29229 | 75,66868 | 25,22289 |
| M3P3 | 24,45199 | 25,14558 | 24,89377 | 74,49134 | 24,83045 |
| M4P1 | 21,11161 | 21,12581 | 20,47193 | 62,70935 | 20,90312 |
| M4P2 | 22,15175 | 21,06419 | 21,04519 | 64,26113 | 21,42038 |
| M4P3 | 22,82761 | 20,54994 | 20,18663 | 63,56418 | 21,18806 |
| Total | 261,1396 | 260,2116 | 256,1387 | 3186,98 | 1062,327 |
| rata-rata | 21,76163 | 21,6843 | 21,34489 | 265,5817 | 88,52722 |

KK = 15,01865



Lampiran 7. Berat biji pertanaman (gram)

| Perlakuan | tabel kombinasi | | | | |
|-----------|-----------------|---------|---------|---------|-----------|
| | 1 | 2 | 3 | jumlah | rata-rata |
| M1P1 | 95,86 | 83,84 | 84 | 263,7 | 87,90 |
| M1P2 | 88,38 | 91,64 | 86,7 | 266,72 | 88,91 |
| M1P3 | 90,44 | 84,44 | 86,86 | 261,74 | 87,25 |
| M2P1 | 60,54 | 65,26 | 68,96 | 194,76 | 64,92 |
| M2P2 | 57,42 | 70,66 | 60,96 | 189,04 | 63,01 |
| M2P3 | 67,88 | 66,24 | 59,48 | 193,6 | 64,53 |
| M3P1 | 116,64 | 119,1 | 112,64 | 348,38 | 116,13 |
| M3P2 | 114,3 | 117,56 | 109,72 | 341,58 | 113,86 |
| M3P3 | 113,68 | 118,46 | 108,1 | 340,24 | 113,41 |
| M4P1 | 85,22 | 90,16 | 84,16 | 259,54 | 86,51 |
| M4P2 | 91,3 | 90,02 | 86,08 | 267,4 | 89,13 |
| M4P3 | 91,84 | 85,76 | 82,68 | 260,28 | 86,76 |
| Total | 1073,5 | 1083,14 | 1030,34 | 3186,98 | 1062,3 |
| rata-rata | 89 | 90,3 | 85,9 | 265,6 | 88,5 |

Tabel dua arah

| Konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|----------|----------|---------|-----------|-------|
| | P1 | P2 | P3 | | | |
| M1 | 263,7 | 266,72 | 261,74 | 792,16 | 264,1 | 88 |
| M2 | 194,76 | 189,04 | 193,6 | 577,4 | 192,5 | 64 |
| M3 | 348,38 | 341,58 | 340,24 | 1030,2 | 343,4 | 114,5 |
| M4 | 259,54 | 267,4 | 260,28 | 787,22 | 262,4 | 87,5 |
| Jumlah | 1066,38 | 1065 | 1055,86 | 3186,98 | | |
| rata-rata | 266,595 | 266,185 | 263,965 | | | |
| | 88,865 | 88,72833 | 87,98833 | | | |

Sidik ragam

| ANOVA | | F tabel | | | | | |
|-----------|----|----------|----------|----------|----------|----------|-----|
| SK | db | JK | KT | F Hit | 5% | 1% | not |
| Ulangan | 2 | 0,353053 | 0,176526 | 3,506718 | 3,443357 | 5,719022 | ** |
| Perlakuan | 11 | 32,54218 | 2,95838 | 58,76858 | 2,258518 | 3,183742 | ** |
| M | 3 | 32,44051 | 10,8135 | 214,8116 | 3,049125 | 4,816606 | ** |
| P | 2 | 0,012362 | 0,006181 | 0,122789 | 3,443357 | 5,719022 | ns |
| M X P | 6 | 0,089299 | 0,014883 | 0,295656 | 2,549061 | 3,758301 | ns |
| Galat | 22 | 1,107469 | 0,050339 | | | | |
| Total | 35 | 34,0027 | | | | | |

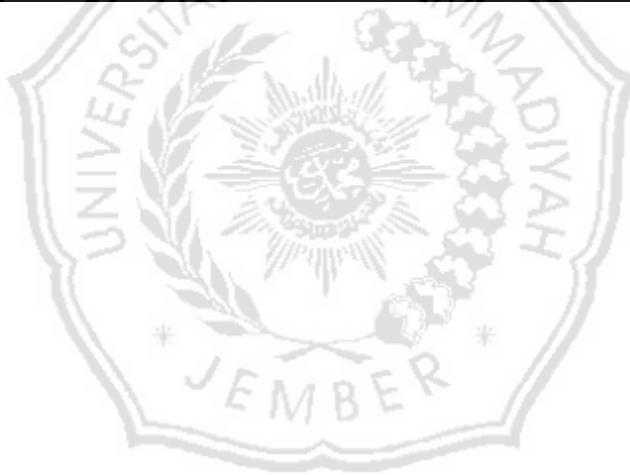
Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 3170,977
 KK = 42,28269

transformasi 1

| Perlakuan | tabel kombinasi | | | | |
|-----------|-----------------|----------|----------|----------|-----------|
| | 1 | 2 | 3 | jumlah | rata-rata |
| M1P1 | 9,816313 | 9,183681 | 9,192388 | 28,19238 | 9,397461 |
| M1P2 | 9,427619 | 9,598958 | 9,338094 | 28,36467 | 9,45489 |
| M1P3 | 9,536247 | 9,21629 | 9,346657 | 28,09919 | 9,366398 |
| M2P1 | 7,81281 | 8,109254 | 8,334267 | 24,25633 | 8,085444 |
| M2P2 | 7,610519 | 8,435639 | 7,839643 | 23,8858 | 7,961934 |
| M2P3 | 8,26922 | 8,169455 | 7,744676 | 24,18335 | 8,061117 |
| M3P1 | 10,82312 | 10,93618 | 10,63673 | 32,39603 | 10,79868 |
| M3P2 | 10,71448 | 10,86554 | 10,49857 | 32,07859 | 10,69286 |
| M3P3 | 10,6855 | 10,90688 | 10,42113 | 32,01352 | 10,67117 |
| M4P1 | 9,25851 | 9,521554 | 9,201087 | 27,98115 | 9,32705 |
| M4P2 | 9,581232 | 9,5142 | 9,304837 | 28,40027 | 9,466756 |
| M4P3 | 9,60937 | 9,287626 | 9,120307 | 28,0173 | 9,339101 |
| Total | 113,1449 | 113,7453 | 110,9784 | 3186,98 | 1062,327 |
| rata-rata | 9,428745 | 9,478771 | 9,248199 | 265,5817 | 88,52722 |

KK = 7,32372



Lampiran 8. Berat 1000 biji (gram)

| Perlakuan | tabel kombinasi | | | jumlah | rata-rata |
|-----------|-----------------|----------|----------|----------|-----------|
| | 1 | 2 | 3 | | |
| M1P1 | 186,25 | 185,42 | 187,83 | 559,502 | 186,50 |
| M1P2 | 194,17 | 194,51 | 201 | 589,68 | 196,56 |
| M1P3 | 198,16 | 184,10 | 191,5 | 573,758 | 191,25 |
| M2P1 | 189,70 | 184,77 | 188,958 | 563,434 | 187,81 |
| M2P2 | 187,35 | 191,21 | 181,52 | 560,08 | 186,69 |
| M2P3 | 171,05 | 183,24 | 187,304 | 541,59 | 180,53 |
| M3P1 | 188,83 | 185,03 | 174,768 | 548,628 | 182,88 |
| M3P2 | 183,67 | 182,18 | 171,824 | 537,668 | 179,22 |
| M3P3 | 190,43 | 187,52 | 174,468 | 552,42 | 184,14 |
| M4P1 | 192,58 | 202,73 | 200,908 | 596,216 | 198,74 |
| M4P2 | 186,22 | 204,14 | 195,26 | 585,618 | 195,21 |
| M4P3 | 176,46 | 204,95 | 203,152 | 584,562 | 194,85 |
| Total | 2244,86 | 2289,804 | 2258,492 | 6793,156 | 2264,385 |
| rata-rata | 187 | 190,8 | 188,2 | 566,0963 | 188,7 |

Tabel dua arah

| Konsentrasi | Interval | | | jumlah | rata-rata | |
|-------------|----------|----------|----------|----------|-----------|-------|
| | P1 | P2 | P3 | | | |
| M1 | 559,502 | 589,68 | 573,758 | 1722,94 | 574,3 | 191,4 |
| M2 | 563,434 | 560,08 | 541,59 | 1665,104 | 555 | 185,0 |
| M3 | 548,628 | 537,668 | 552,42 | 1638,716 | 546,2 | 182,1 |
| M4 | 596,216 | 585,618 | 584,562 | 1766,396 | 588,8 | 196,3 |
| Jumlah | 2267,78 | 2273 | 2252,33 | 6793,156 | | |
| rata-rata | 566,945 | 568,2615 | 563,0825 | | | |
| | 189,0 | 189,4 | 187,7 | | | |

Sidik ragam

| ANOVA | | | F tabel | | | | |
|-----------|----|----------|----------|----------|----------|----------|-----|
| SK | db | JK | KT | F Hit | 5% | 1% | not |
| Ulangan | 2 | 88,50655 | 44,25328 | 0,743282 | 3,443357 | 5,719022 | ns |
| Perlakuan | 11 | 1410,615 | 128,2378 | 2,153892 | 2,258518 | 3,183742 | ns |
| M | 3 | 1099,602 | 366,5341 | 6,156339 | 3,049125 | 4,816606 | ** |
| P | 2 | 19,32183 | 9,660915 | 0,162266 | 3,443357 | 5,719022 | ns |
| M X P | 6 | 291,691 | 48,61517 | 0,816545 | 2,549061 | 3,758301 | ns |
| Galat | 22 | 1309,829 | 59,53768 | | | | |
| Total | 35 | 2808,951 | | | | | |

Keterangan : ** Berbeda sangat nyata
 ns Berbeda tidak nyata

FK = 1281860
 KK = 5,617091

Lampiran 9. Dokumentasi Penelitian.



Gambar 22. Pengolahan lahan



Gambar 23. Pemasangan Mulsa



Gambar 24. Pemupukan Dasar



Gambar 25. Penanaman benih kacang panjang



Gambar 26. Penyulaman kacang panjang



Gambar 27. Pemasangan lanjaran



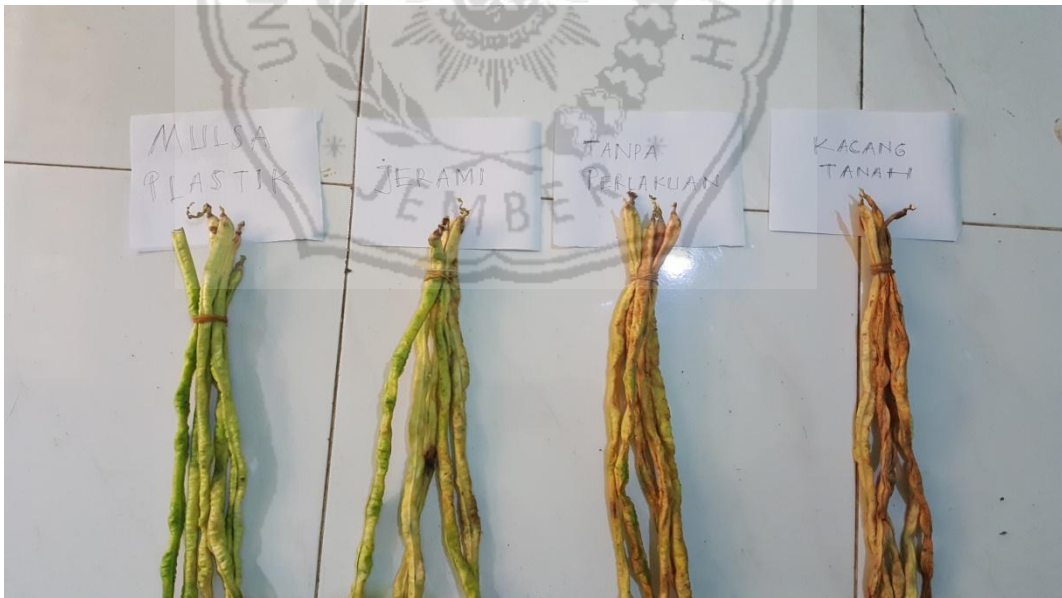
Gambar 28. Pemupukan ke dua



Gambar 29. Pemupukan ke tiga



Gambar 30. Pengendalian Hama



gambar 31. Pemanenan polong tua



Gambar 32. Penimbangan benih kacang panjang

