

**DAFTAR PUSTAKA**

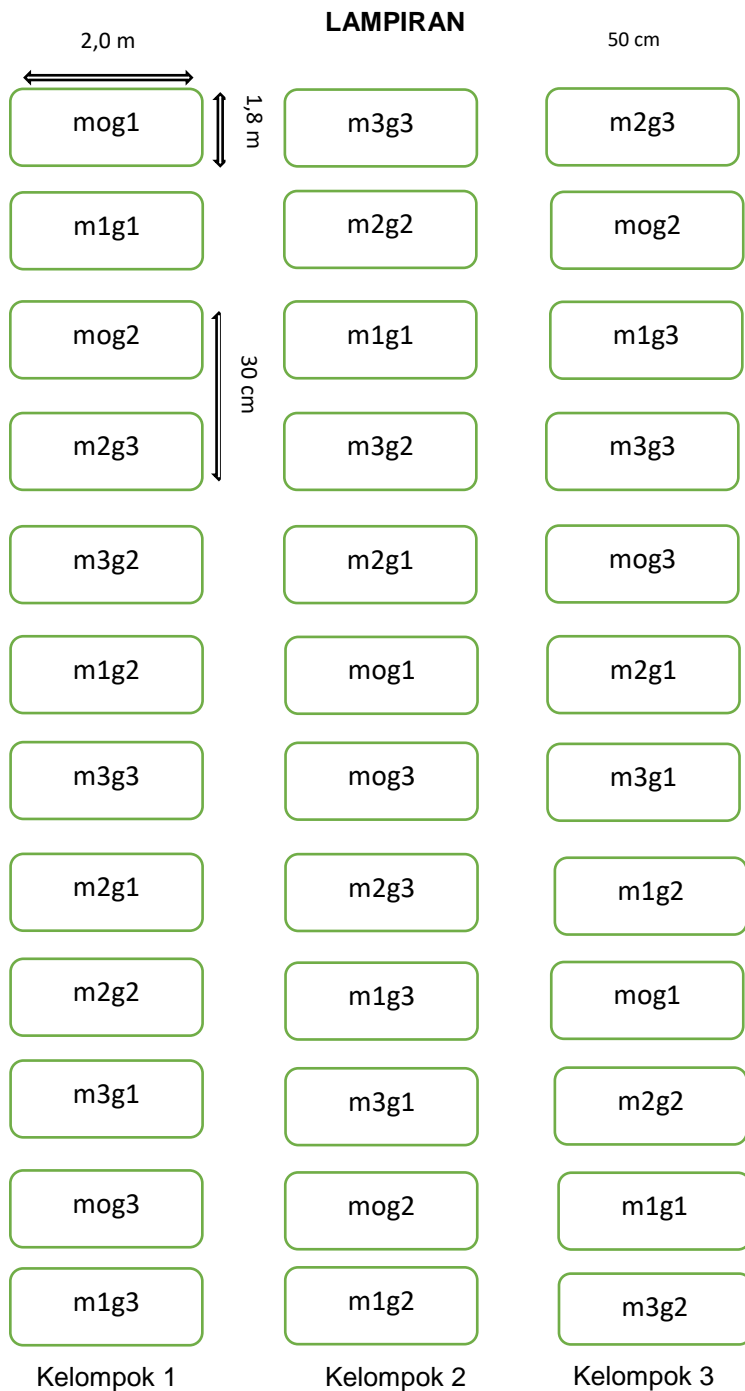
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# LAMPIRAN

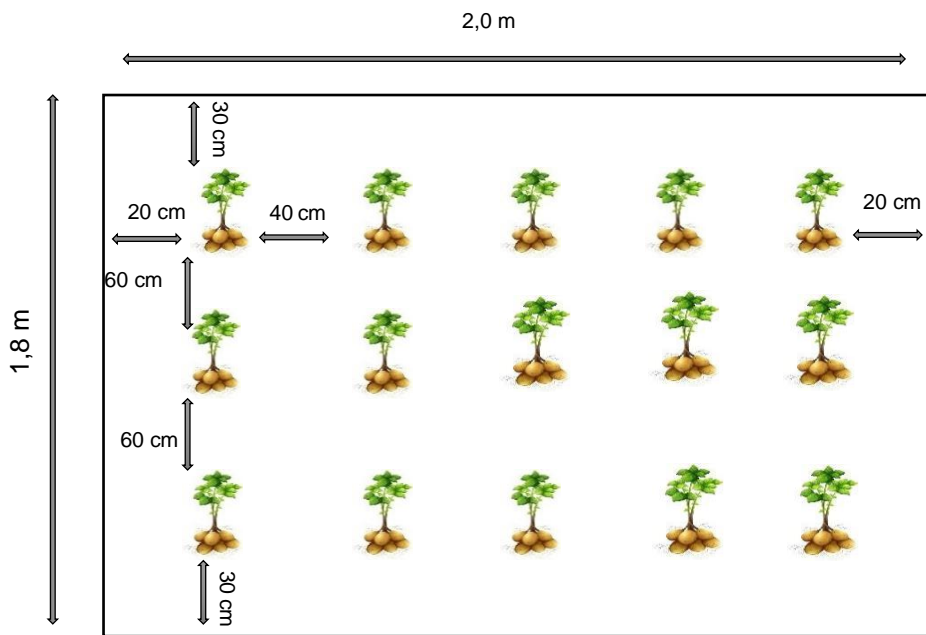


**Keterangan:**

m0 : tanpa pemberian mikoriza  
 m1: 7.5 g/tanaman  
 m2: 15 g/tanaman  
 m3: 22.5 g/tanaman

g1 : 2 g/L air  
 g2 : 4 g/L air  
 g3 : 6 g/L air

Gambar Lampiran 1. Denah perlakuan di lapangan



Keterangan:

Luas petakan = 2 m x 1,8 m

Jarak tanam = 60 cm x 40 cm

Jumlah populasi = 15 tanaman per petakan

Gambar Lampiran 2. Tata letak tanaman dalam petakan

Tabel Lampiran 1. Data suhu udara dan kelembaban udara lokasi penelitian

| Bulan     | Suhu Udara (°C) | Kelembaban Udara (%) |
|-----------|-----------------|----------------------|
| Mei       | 18              | 78.45                |
| Juni      | 16.25           | 82.2                 |
| Juli      | 17.75           | 74.5                 |
| Agustus   | 20.15           | 80.25                |
| September | 18.25           | 72.35                |

Sumber: Data primer, 2023.



Tabel Lampiran 2. Karakter tanah sebelum dan setelah penelitian

| <b>Parameter Tanah</b>                | <b>Sebelum Penelitian</b> | <b>Setelah penelitian</b> | <b>Satuan</b>         |
|---------------------------------------|---------------------------|---------------------------|-----------------------|
| Pasir                                 | 16                        | 23                        | %                     |
| Debu                                  | 26                        | 60                        | %                     |
| Liat                                  | 58                        | 27                        | %                     |
| Klas tekstur                          | Liat                      | Lempung Liat Berdebu      | -                     |
| pH (H <sub>2</sub> O)                 | 6,58                      | 6,32                      | -                     |
| pH (KCl)                              | 0                         | 0                         | -                     |
| C (Walkey & Black)                    | 2,58                      | 2,95                      | %                     |
| N (Kjeldahl)                          | 0,19                      | 0,12                      | %                     |
| C/N                                   | 13                        | 16                        | -                     |
| P <sub>2</sub> O <sub>5</sub> (Olsen) | 12,11                     | 16,85                     | Ppm                   |
| K (NH <sub>4</sub> -Acetat 1N, pH7)   | 0,23                      | 0,21                      | cmol kg <sup>-1</sup> |
| Ca (NH <sub>4</sub> -Acetat 1N, pH7)  | 8,35                      | 10,22                     | cmol kg <sup>-1</sup> |
| Mg (NH <sub>4</sub> -Acetat 1N, pH7)  | 1,18                      | 1,18                      | cmol kg <sup>-1</sup> |
| Na (NH <sub>4</sub> -Acetat 1N, pH7)  | 0,48                      | 0,57                      | cmol kg <sup>-1</sup> |
| Jumlah                                | 10                        | 8                         | cmol kg <sup>-1</sup> |
| KTK (NH <sub>4</sub> -Acetat 1N, pH7) | 26,74                     | 21,65                     | cmol kg <sup>-1</sup> |
| KB (NH <sub>4</sub> -Acetat 1N, pH7)  | 38                        | 46                        | %                     |

Sumber : Laboratorium kimia dan kesuburan tanah, Departemen Ilmu Tanah, Fakultas Pertanian, Universitas Hasanuddin, Makassar, 2023.

### LAMPIRAN TABEL

Tabel Lampiran 3a. Rata-rata tinggi tanaman (cm)

| Perlakuan | Kelompok |        |        | Total   | Rata-rata |
|-----------|----------|--------|--------|---------|-----------|
|           | I        | II     | III    |         |           |
| m0g1      | 57.40    | 53.10  | 54.25  | 164.75  | 54.92     |
| m0g2      | 59.00    | 60.80  | 52.70  | 172.50  | 57.50     |
| m0g3      | 61.10    | 56.40  | 55.20  | 172.70  | 57.57     |
| m1g1      | 60.80    | 57.70  | 61.60  | 180.10  | 60.03     |
| m1g2      | 59.60    | 62.00  | 61.80  | 183.40  | 61.13     |
| m1g3      | 64.00    | 60.05  | 56.80  | 180.85  | 60.28     |
| m2g1      | 68.35    | 65.80  | 68.45  | 202.60  | 67.53     |
| m2g2      | 66.40    | 68.75  | 65.20  | 200.35  | 66.78     |
| m2g3      | 68.50    | 58.80  | 67.50  | 194.80  | 64.93     |
| m3g1      | 64.40    | 62.00  | 62.40  | 188.80  | 62.93     |
| m3g2      | 58.50    | 65.00  | 61.20  | 184.70  | 61.57     |
| m3g3      | 62.00    | 58.00  | 56.40  | 176.40  | 58.80     |
| Total     | 750.05   | 728.40 | 723.50 | 2201.95 | 61.17     |

Tabel Lampiran 3b. Sidik ragam rata-rata tinggi tanaman

| Sumber Keragaman | DB | JK     | KT     | F. Hitung           | F. Tabel |      |
|------------------|----|--------|--------|---------------------|----------|------|
|                  |    |        |        |                     | 0.05     | 0.01 |
| Kelompok         | 2  | 33.27  | 16.63  | 2.04 <sup>tn</sup>  | 3.44     | 5.72 |
| Perlakuan        | 11 | 488.05 | 44.37  | 5.44 <sup>**</sup>  | 2.26     | 3.18 |
| M                | 3  | 435.01 | 145.00 | 17.77 <sup>**</sup> | 3.05     | 4.82 |
| G                | 2  | 11.58  | 5.79   | 0.71 <sup>tn</sup>  | 3.44     | 5.72 |
| M x G            | 6  | 41.47  | 6.91   | 0.85 <sup>tn</sup>  | 2.55     | 3.76 |
| Galat            | 22 | 179.54 | 8.16   |                     |          |      |
| Total            | 35 | 700.86 |        |                     |          |      |

KK : 4.67%

Keterangan:

tn = Tidak berpengaruh nyata.

\*\* = Berpengaruh sangat nyata.

Tabel Lampiran 4a. Rata-rata jumlah daun per tangkai (helai)

| Perlakuan | Kelompok |        |        | Total   | Rata-rata |
|-----------|----------|--------|--------|---------|-----------|
|           | I        | II     | III    |         |           |
| m0g1      | 50.00    | 53.80  | 50.80  | 154.60  | 51.53     |
| m0g2      | 60.80    | 52.80  | 58.00  | 171.60  | 57.20     |
| m0g3      | 63.00    | 50.20  | 56.20  | 169.40  | 56.47     |
| m1g1      | 53.60    | 54.60  | 52.80  | 161.00  | 53.67     |
| m1g2      | 61.40    | 52.00  | 55.20  | 168.60  | 56.20     |
| m1g3      | 54.60    | 51.20  | 55.20  | 161.00  | 53.67     |
| m2g1      | 58.60    | 49.60  | 55.60  | 163.80  | 54.60     |
| m2g2      | 57.80    | 59.00  | 58.00  | 174.80  | 58.27     |
| m2g3      | 59.00    | 48.00  | 52.20  | 159.20  | 53.07     |
| m3g1      | 60.20    | 51.20  | 55.40  | 166.80  | 55.60     |
| m3g2      | 64.40    | 50.00  | 59.00  | 173.40  | 57.80     |
| m3g3      | 62.40    | 56.00  | 63.00  | 181.40  | 60.47     |
| Total     | 705.80   | 628.40 | 671.40 | 2005.60 | 55.71     |

Tabel Lampiran 4b. Sidik ragam rata-rata jumlah daun per tangkai

| Sumber Keragaman | DB | JK     | Kt     | F. Hitung          | F. Tabel |      |
|------------------|----|--------|--------|--------------------|----------|------|
|                  |    |        |        |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 250.64 | 125.32 | 13.13**            | 3.44     | 5.72 |
| Perlakuan        | 11 | 211.77 | 19.25  | 2.02 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 63.48  | 21.16  | 2.22 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 74.96  | 37.48  | 3.93*              | 3.44     | 5.72 |
| M x G            | 6  | 73.33  | 12.22  | 1.28 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 209.94 | 9.54   |                    |          |      |
| Total            | 35 | 672.36 |        |                    |          |      |

KK : 3.55 %

Keterangan:

- tn = Tidak berpengaruh nyata.
- \* = Berpengaruh nyata.
- \*\* = Berpengaruh sangat nyata.

Tabel Lampiran 5a. Rata-rata jumlah daun per tanaman (helai)

| Perlakuan | Kelompok |         |         | Total   | Rata-rata |
|-----------|----------|---------|---------|---------|-----------|
|           | I        | II      | III     |         |           |
| m0g1      | 122.40   | 128.80  | 108.60  | 359.80  | 119.93    |
| m0g2      | 119.80   | 130.40  | 109.00  | 359.20  | 119.73    |
| m0g3      | 134.60   | 126.60  | 114.00  | 375.20  | 125.07    |
| m1g1      | 134.20   | 113.80  | 103.80  | 351.80  | 117.27    |
| m1g2      | 134.00   | 120.20  | 111.60  | 365.80  | 121.93    |
| m1g3      | 116.80   | 114.20  | 122.00  | 353.00  | 117.67    |
| m2g1      | 126.60   | 120.20  | 118.80  | 365.60  | 121.87    |
| m2g2      | 116.40   | 126.40  | 113.00  | 355.80  | 118.60    |
| m2g3      | 127.20   | 118.00  | 132.40  | 377.60  | 125.87    |
| m3g1      | 124.60   | 125.20  | 112.40  | 362.20  | 120.73    |
| m3g2      | 133.80   | 120.60  | 116.80  | 371.20  | 123.73    |
| m3g3      | 119.80   | 129.00  | 126.20  | 375.00  | 125.00    |
| Total     | 1510.20  | 1473.40 | 1388.60 | 4372.20 | 121.45    |

Tabel Lampiran 5b. Sidik ragam rata-rata jumlah daun per tanaman

| Sumber Keragaman | DB | JK      | KT     | F. Hitung          | F. Tabel |      |
|------------------|----|---------|--------|--------------------|----------|------|
|                  |    |         |        |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 648.11  | 324.05 | 5.39*              | 3.44     | 5.72 |
| Perlakuan        | 11 | 289.52  | 26.32  | 0.44 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 86.26   | 28.75  | 0.48 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 75.06   | 37.53  | 0.62 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 128.20  | 21.37  | 0.36 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 1322.80 | 60.13  |                    |          |      |
| Total            | 35 | 2260.43 |        |                    |          |      |

KK : 6.38 %

Keterangan:

tn = Tidak berpengaruh nyata.

\* = Berpengaruh nyata.

Tabel Lampiran 6a. Rata-rata diameter batang (mm)

| Perlakuan | Kelompok |        |        | Total  | Rata-rata |
|-----------|----------|--------|--------|--------|-----------|
|           | I        | II     | III    |        |           |
| m0g1      | 11.20    | 10.60  | 10.30  | 32.10  | 10.70     |
| m0g2      | 13.80    | 11.60  | 12.20  | 37.60  | 12.53     |
| m0g3      | 12.50    | 11.80  | 11.40  | 35.70  | 11.90     |
| m1g1      | 13.40    | 11.60  | 11.60  | 36.60  | 12.20     |
| m1g2      | 12.50    | 12.40  | 10.98  | 35.88  | 11.96     |
| m1g3      | 11.50    | 11.10  | 12.00  | 34.60  | 11.53     |
| m2g1      | 13.70    | 10.80  | 11.80  | 36.30  | 12.10     |
| m2g2      | 11.60    | 11.30  | 12.00  | 34.90  | 11.63     |
| m2g3      | 13.00    | 12.10  | 13.50  | 38.60  | 12.87     |
| m3g1      | 11.90    | 11.10  | 10.80  | 33.80  | 11.27     |
| m3g2      | 11.90    | 11.10  | 11.10  | 34.10  | 11.37     |
| m3g3      | 12.70    | 11.50  | 12.80  | 37.00  | 12.33     |
| Total     | 149.70   | 137.00 | 140.48 | 427.18 | 11.87     |

Tabel Lampiran 6b. Sidik ragam rata-rata diameter batang

| Sumber Keragaman | DB | JK    | KT   | F. Hitung          | F. Tabel |      |
|------------------|----|-------|------|--------------------|----------|------|
|                  |    |       |      |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 7.18  | 3.59 | 9.66**             | 3.44     | 5.72 |
| Perlakuan        | 11 | 11.92 | 1.08 | 2.92*              | 2.26     | 3.18 |
| M                | 3  | 1.63  | 0.54 | 1.46 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 2.10  | 1.05 | 2.83 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 8.19  | 1.37 | 3.68*              | 2.55     | 3.76 |
| Galat            | 22 | 8.17  | 0.37 |                    |          |      |
| Total            | 35 | 27.28 |      |                    |          |      |

KK : 5.14 %

Keterangan:

- tn = Tidak berpengaruh nyata.
- \* = Berpengaruh nyata.
- \*\* = Berpengaruh sangat nyata.

Tabel Lampiran 7a. Rata-rata indeks klorofil ( $\mu$ )

| Perlakuan | Kelompok |        |        | Total | Rata-rata<br>I |
|-----------|----------|--------|--------|-------|----------------|
|           | I        | II     | III    |       |                |
| m0g1      | 26.10    | 23.40  | 22.80  | m0g1  | 26.10          |
| m0g2      | 22.80    | 25.60  | 26.00  | m0g2  | 22.80          |
| m0g3      | 38.90    | 25.60  | 25.40  | m0g3  | 38.90          |
| m1g1      | 25.40    | 22.20  | 37.10  | m1g1  | 25.40          |
| m1g2      | 30.40    | 41.80  | 29.20  | m1g2  | 30.40          |
| m1g3      | 34.00    | 27.20  | 28.10  | m1g3  | 34.00          |
| m2g1      | 31.50    | 28.20  | 24.70  | m2g1  | 31.50          |
| m2g2      | 32.10    | 32.50  | 27.00  | m2g2  | 32.10          |
| m2g3      | 19.00    | 31.30  | 25.50  | m2g3  | 19.00          |
| m3g1      | 29.80    | 28.10  | 34.50  | m3g1  | 29.80          |
| m3g2      | 23.80    | 22.60  | 24.70  | m3g2  | 23.80          |
| m3g3      | 46.00    | 30.00  | 24.30  | m3g3  | 46.00          |
| Total     | 359.80   | 338.50 | 329.30 | Total | 359.80         |

Tabel Lampiran 7b. Sidik ragam rata-rata indeks klorofil

| Sumber Keragaman | DB | JK      | KT    | F. Hitung          | F. Tabel |      |
|------------------|----|---------|-------|--------------------|----------|------|
|                  |    |         |       |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 40.79   | 20.40 | 0.61 <sup>tn</sup> | 3.44     | 5.72 |
| Perlakuan        | 11 | 397.00  | 36.09 | 1.08 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 92.00   | 30.67 | 0.92 <sup>tn</sup> | 3.05     | 4.82 |
| Galat            | 2  | 21.29   | 10.65 | 0.32 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 283.71  | 47.29 | 1.42 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 733.23  | 33.33 |                    |          |      |
| Total            | 35 | 1171.03 |       |                    |          |      |

KK : 20.22%

Keterangan:

tn = Tidak berpengaruh nyata.

Tabel Lampiran 8a. Rata-rata kerapatan stomata ( $\text{mm}^{-2}$ )

| Perlakuan | Kelompok |        |        | Total  | Rata-rata |
|-----------|----------|--------|--------|--------|-----------|
|           | I        | II     | III    |        |           |
| m0g1      | 30.25    | 30.57  | 35.67  | 96.49  | 32.16     |
| m0g2      | 25.48    | 20.38  | 20.38  | 66.24  | 22.08     |
| m0g3      | 30.57    | 25.48  | 25.48  | 81.53  | 27.18     |
| m1g1      | 30.57    | 25.48  | 25.48  | 81.53  | 27.18     |
| m1g2      | 25.48    | 25.48  | 35.67  | 86.62  | 28.87     |
| m1g3      | 30.57    | 30.57  | 20.38  | 81.53  | 27.18     |
| m2g1      | 35.67    | 15.29  | 25.48  | 76.43  | 25.48     |
| m2g2      | 30.57    | 35.67  | 25.48  | 91.72  | 30.57     |
| m2g3      | 30.57    | 20.38  | 20.38  | 71.34  | 23.78     |
| m3g1      | 35.67    | 25.48  | 35.67  | 96.82  | 32.27     |
| m3g2      | 40.76    | 20.38  | 20.38  | 81.53  | 27.18     |
| m3g3      | 15.29    | 35.67  | 25.48  | 76.43  | 25.48     |
| Total     | 361.46   | 310.83 | 315.92 | 988.21 | 27.45     |

Tabel Lampiran 8b. Sidik ragam rata-rata kerapatan stomata

| Sumber Keragaman | DB | JK      | KT    | F. Hitung          | F. Tabel |      |
|------------------|----|---------|-------|--------------------|----------|------|
|                  |    |         |       |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 129.53  | 64.77 | 1.48 <sup>tn</sup> | 3.44     | 5.72 |
| Perlakuan        | 11 | 322.92  | 29.36 | 0.67 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 14.62   | 4.87  | 0.11 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 69.50   | 34.75 | 0.79 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 238.81  | 39.80 | 0.91 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 962.15  | 43.73 |                    |          |      |
| Total            | 35 | 1414.60 |       |                    |          |      |

KK : 24.09%

Keterangan:

tn = Tidak berpengaruh nyata.

Tabel Lampiran 9a. Rata-rata luas bukaan stomata ( $\text{mm}^{-2}$ )

| Perlakuan | Kelompok |       |       | Total | Rata-rata |
|-----------|----------|-------|-------|-------|-----------|
|           | I        | II    | III   |       |           |
| m0g1      | 2.138    | 2.198 | 2.127 | 6.46  | 2.15      |
| m0g2      | 2.120    | 1.895 | 1.834 | 5.85  | 1.95      |
| m0g3      | 2.138    | 1.877 | 2.071 | 6.09  | 2.03      |
| m1g1      | 1.963    | 1.944 | 1.803 | 5.71  | 1.90      |
| m1g2      | 2.028    | 2.071 | 2.150 | 6.25  | 2.08      |
| m1g3      | 1.770    | 2.071 | 2.071 | 5.91  | 1.97      |
| m2g1      | 2.065    | 2.280 | 2.247 | 6.59  | 2.20      |
| m2g2      | 1.895    | 2.056 | 2.125 | 6.08  | 2.03      |
| m2g3      | 1.952    | 2.202 | 2.115 | 6.27  | 2.09      |
| m3g1      | 1.956    | 2.099 | 1.787 | 5.84  | 1.95      |
| m3g2      | 1.895    | 1.912 | 1.928 | 5.74  | 1.91      |
| m3g3      | 2.071    | 2.071 | 2.088 | 6.23  | 2.08      |
| Total     | 23.99    | 24.68 | 24.35 | 73.02 | 2.03      |

Tabel Lampiran 9b. Sidik ragam rata-rata luas bukaan stomata

| Sumber Keragaman | DB | JK   | KT   | F. Hitung          | F. Tabel |      |
|------------------|----|------|------|--------------------|----------|------|
|                  |    |      |      |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 0.02 | 0.01 | 0.76 <sup>tn</sup> | 3.44     | 5.72 |
| Perlakuan        | 11 | 0.30 | 0.03 | 2.08 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 0.09 | 0.03 | 2.39 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 0.02 | 0.01 | 0.90 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 0.18 | 0.03 | 2.32 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 0.29 | 0.01 |                    |          |      |
| Total            | 35 | 0.60 |      |                    |          |      |

KK : 5.62%

Keterangan:

tn = Tidak berpengaruh nyata.



Tabel Lampiran 10a. Rata-rata diameter umbi (mm)

| Perlakuan | Kelompok |        |        | Total   | Rata-rata |
|-----------|----------|--------|--------|---------|-----------|
|           | I        | II     | III    |         |           |
| m0g1      | 41.70    | 41.40  | 42.70  | 125.80  | 41.93     |
| m0g2      | 48.90    | 41.40  | 38.00  | 128.30  | 42.77     |
| m0g3      | 47.02    | 41.30  | 46.50  | 134.82  | 44.94     |
| m1g1      | 45.60    | 44.70  | 47.90  | 138.20  | 46.07     |
| m1g2      | 47.50    | 39.20  | 37.50  | 124.20  | 41.40     |
| m1g3      | 49.60    | 46.80  | 39.60  | 136.00  | 45.33     |
| m2g1      | 46.70    | 47.00  | 40.60  | 134.30  | 44.77     |
| m2g2      | 39.80    | 41.20  | 48.00  | 129.00  | 43.00     |
| m2g3      | 47.20    | 41.80  | 45.30  | 134.30  | 44.77     |
| m3g1      | 42.60    | 47.20  | 40.60  | 130.40  | 43.47     |
| m3g2      | 43.70    | 40.40  | 40.90  | 125.00  | 41.67     |
| m3g3      | 45.50    | 39.80  | 44.70  | 130.00  | 43.33     |
| Total     | 545.82   | 512.20 | 512.30 | 1570.32 | 43.62     |

Tabel Lampiran 10b. Sidik ragam rata-rata diameter umbi

| Sumber Keragaman | DB | JK     | KT    | F. Hitung          | F. Tabel |      |
|------------------|----|--------|-------|--------------------|----------|------|
|                  |    |        |       |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 62.61  | 31.30 | 2.61 <sup>tn</sup> | 3.44     | 5.72 |
| Perlakuan        | 11 | 78.30  | 7.12  | 0.59 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 13.78  | 4.59  | 0.38 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 37.59  | 18.79 | 1.56 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 26.93  | 4.49  | 0.37 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 264.32 | 12.01 |                    |          |      |
| Total            | 35 | 405.23 |       |                    |          |      |

KK : 7.95 %

Keterangan:

tn = Tidak berpengaruh nyata.

Tabel Lampiran 11a. Rata-rata panjang umbi (cm)

| Perlakuan | Kelompok |       |       | Total  | Rata-rata |
|-----------|----------|-------|-------|--------|-----------|
|           | I        | II    | III   |        |           |
| m0g1      | 5.40     | 4.50  | 5.10  | 15.00  | 5.00      |
| m0g2      | 5.70     | 4.50  | 7.80  | 18.00  | 6.00      |
| m0g3      | 5.00     | 4.80  | 5.30  | 15.10  | 5.03      |
| m1g1      | 5.60     | 5.20  | 5.80  | 16.60  | 5.53      |
| m1g2      | 6.80     | 4.30  | 4.70  | 15.80  | 5.27      |
| m1g3      | 6.40     | 5.20  | 4.60  | 16.20  | 5.40      |
| m2g1      | 6.40     | 5.90  | 5.80  | 18.10  | 6.03      |
| m2g2      | 4.70     | 4.80  | 5.80  | 15.30  | 5.10      |
| m2g3      | 6.00     | 4.80  | 4.90  | 15.70  | 5.23      |
| m3g1      | 5.00     | 5.20  | 5.10  | 15.30  | 5.10      |
| m3g2      | 5.70     | 4.70  | 4.40  | 14.80  | 4.93      |
| m3g3      | 6.50     | 4.70  | 5.30  | 16.50  | 5.50      |
| Total     | 69.20    | 58.60 | 64.60 | 192.40 | 5.34      |

Tabel Lampiran 11b. Sidik ragam rata-rata panjang umbi

| Sumber Keragaman | DB | JK    | KT   | F. Hitung          | F. Tabel |      |
|------------------|----|-------|------|--------------------|----------|------|
|                  |    |       |      |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 4.71  | 2.35 | 4.56*              | 3.44     | 5.72 |
| Perlakuan        | 11 | 4.47  | 0.41 | 0.79 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 0.39  | 0.13 | 0.25 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 0.10  | 0.05 | 0.10 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 3.98  | 0.66 | 1.29 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 11.35 | 0.52 |                    |          |      |
| Total            | 35 | 20.53 |      |                    |          |      |

KK : 13.44 %

Keterangan:

tn = Tidak berpengaruh nyata.

\* = Berpengaruh nyata.

Tabel Lampiran 12a. Rata-rata jumlah umbi per tanaman (umbi)

| Perlakuan | Kelompok |       |       | Total  | Rata-rata |
|-----------|----------|-------|-------|--------|-----------|
|           | I        | II    | III   |        |           |
| m0g1      | 6.40     | 6.20  | 6.40  | 19.00  | 6.33      |
| m0g2      | 5.40     | 6.60  | 6.00  | 18.00  | 6.00      |
| m0g3      | 6.40     | 7.00  | 6.00  | 19.40  | 6.47      |
| m1g1      | 6.80     | 7.20  | 6.20  | 20.20  | 6.73      |
| m1g2      | 6.00     | 7.40  | 6.40  | 19.80  | 6.60      |
| m1g3      | 6.20     | 6.60  | 5.80  | 18.60  | 6.20      |
| m2g1      | 6.20     | 7.00  | 6.00  | 19.20  | 6.40      |
| m2g2      | 8.20     | 7.40  | 6.40  | 22.00  | 7.33      |
| m2g3      | 6.20     | 6.60  | 7.20  | 20.00  | 6.67      |
| m3g1      | 6.40     | 6.60  | 6.60  | 19.60  | 6.53      |
| m3g2      | 6.80     | 7.40  | 7.20  | 21.40  | 7.13      |
| m3g3      | 6.80     | 6.80  | 6.80  | 20.40  | 6.80      |
| Total     | 77.80    | 82.80 | 77.00 | 237.60 | 6.60      |

Tabel Lampiran 12b. Sidik ragam rata-rata jumlah umbi per tanaman

| Sumber Keragaman | DB | JK    | KT   | F. Hitung          | F. Tabel |      |
|------------------|----|-------|------|--------------------|----------|------|
|                  |    |       |      |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 1.65  | 0.82 | 4.14*              | 3.44     | 5.72 |
| Perlakuan        | 11 | 4.61  | 0.42 | 2.1 <sup>tn</sup>  | 2.26     | 3.18 |
| M                | 3  | 1.88  | 0.63 | 3.14*              | 3.05     | 4.82 |
| G                | 2  | 0.51  | 0.25 | 1.27 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 2.23  | 0.37 | 1.87 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 4.38  | 0.20 |                    |          |      |
| Total            | 35 | 10.64 |      |                    |          |      |

KK : 6.76 %

Keterangan:

tn = Tidak berpengaruh nyata.

\* = Berpengaruh nyata.

Tabel Lampiran 13a. Rata-rata bobot umbi (g)

| Perlakuan | Kelompok |        |        | Total   | Rata-rata |
|-----------|----------|--------|--------|---------|-----------|
|           | I        | II     | III    |         |           |
| m0g1      | 67.50    | 50.70  | 57.40  | 175.60  | 58.53     |
| m0g2      | 76.70    | 52.60  | 48.50  | 177.80  | 59.27     |
| m0g3      | 71.10    | 48.50  | 67.10  | 186.70  | 62.23     |
| m1g1      | 84.00    | 77.70  | 75.20  | 236.90  | 78.97     |
| m1g2      | 82.40    | 65.00  | 39.40  | 186.80  | 62.27     |
| m1g3      | 74.70    | 70.10  | 63.10  | 207.90  | 69.30     |
| m2g1      | 67.10    | 84.40  | 67.50  | 219.00  | 73.00     |
| m2g2      | 65.20    | 65.40  | 75.30  | 205.90  | 68.63     |
| m2g3      | 79.40    | 64.90  | 64.90  | 209.20  | 69.73     |
| m3g1      | 63.10    | 65.30  | 47.40  | 175.80  | 58.60     |
| m3g2      | 63.60    | 61.30  | 46.00  | 170.90  | 56.97     |
| m3g3      | 75.50    | 76.40  | 66.30  | 218.20  | 72.73     |
| Total     | 870.30   | 782.30 | 718.10 | 2370.70 | 65.85     |

Tabel Lampiran 13b. Sidik ragam rata-rata bobot umbi

| Sumber Keragaman | DB | JK      | KT     | F. Hitung          | F. Tabel |      |
|------------------|----|---------|--------|--------------------|----------|------|
|                  |    |         |        |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 973.07  | 486.53 | 5.92**             | 3.44     | 5.72 |
| Perlakuan        | 11 | 1678.65 | 152.60 | 1.86 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 751.86  | 250.62 | 3.06*              | 3.05     | 4.82 |
| G                | 2  | 307.09  | 153.55 | 1.87 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 619.70  | 103.28 | 1.26 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 1808.23 | 82.19  |                    |          |      |
| Total            | 35 | 4459.95 |        |                    |          |      |

KK : 13.77 %

Keterangan:

- tn = Tidak berpengaruh nyata.
- \* = Berpengaruh nyata.
- \*\* = Berpengaruh sangat nyata.

Tabel Lampiran 14a. Rata-rata produksi umbi per petak (kg)

| Perlakuan | Kelompok |       |       | Total  | Rata-rata |
|-----------|----------|-------|-------|--------|-----------|
|           | I        | II    | III   |        |           |
| m0g1      | 3.10     | 1.81  | 2.78  | 7.69   | 2.56      |
| m0g2      | 3.30     | 2.12  | 1.98  | 7.40   | 2.47      |
| m0g3      | 3.09     | 2.37  | 3.59  | 9.04   | 3.01      |
| m1g1      | 4.00     | 3.67  | 2.54  | 10.21  | 3.40      |
| m1g2      | 3.42     | 2.27  | 1.54  | 7.23   | 2.41      |
| m1g3      | 3.44     | 2.89  | 2.09  | 8.42   | 2.81      |
| m2g1      | 3.72     | 4.41  | 2.97  | 11.10  | 3.70      |
| m2g2      | 3.16     | 3.13  | 3.84  | 10.13  | 3.38      |
| m2g3      | 3.56     | 2.38  | 4.75  | 10.69  | 3.56      |
| m3g1      | 2.28     | 2.59  | 2.32  | 7.19   | 2.40      |
| m3g2      | 4.15     | 2.55  | 2.45  | 9.15   | 3.05      |
| m3g3      | 3.49     | 1.97  | 2.59  | 8.05   | 2.68      |
| Total     | 40.55    | 32.84 | 33.30 | 106.28 | 2.95      |

Tabel Lampiran 14b. Sidik ragam rata-rata produksi umbi per petak

| Sumber Keragaman | DB | JK    | KT   | F. Hitung          | F. Tabel |      |
|------------------|----|-------|------|--------------------|----------|------|
|                  |    |       |      |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 5.51  | 2.75 | 7.31**             | 3.44     | 5.72 |
| Perlakuan        | 11 | 7.24  | 0.66 | 1.75 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 4.43  | 1.48 | 3.92*              | 3.05     | 4.82 |
| G                | 2  | 0.29  | 0.15 | 0.39 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 2.52  | 0.42 | 1.12 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 8.28  | 0.38 |                    |          |      |
| Total            | 35 | 21.03 |      |                    |          |      |

KK : 20.78 %

Keterangan:

tn = Tidak berpengaruh nyata.

\* = Berpengaruh nyata.

\*\* = Berpengaruh Sangat nyata.

Tabel Lampiran 15a. Rata-rata produksi umbi per hektar (t/ha)

| Perlakuan | Kelompok |        |        | Total  | Rata-rata |
|-----------|----------|--------|--------|--------|-----------|
|           | I        | II     | III    |        |           |
| m0g1      | 10.33    | 6.05   | 9.28   | 25.67  | 8.56      |
| m0g2      | 11.00    | 7.06   | 6.59   | 24.65  | 8.22      |
| m0g3      | 10.28    | 7.89   | 11.96  | 30.13  | 10.04     |
| m1g1      | 13.33    | 12.24  | 8.45   | 34.02  | 11.34     |
| m1g2      | 11.41    | 7.56   | 5.14   | 24.11  | 8.04      |
| m1g3      | 11.45    | 9.62   | 6.98   | 28.05  | 9.35      |
| m2g1      | 12.39    | 14.71  | 9.90   | 37.01  | 12.34     |
| m2g2      | 10.52    | 10.44  | 12.78  | 33.75  | 11.25     |
| m2g3      | 11.87    | 7.94   | 15.82  | 35.64  | 11.88     |
| m3g1      | 7.61     | 8.62   | 7.60   | 23.83  | 7.94      |
| m3g2      | 13.83    | 8.54   | 8.17   | 30.53  | 10.18     |
| m3g3      | 11.62    | 6.59   | 8.64   | 26.85  | 8.95      |
| Total     | 135.66   | 107.27 | 111.32 | 354.24 | 118.08    |

Tabel Lampiran 15b. Sidik ragam rata-rata produksi umbi per hektar

| Sumber Keragaman | DB | JK     | KT    | F. Hitung          | F. Tabel |      |
|------------------|----|--------|-------|--------------------|----------|------|
|                  |    |        |       |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 39.30  | 19.65 | 3.80*              | 3.44     | 5.72 |
| Perlakuan        | 11 | 80.83  | 7.35  | 1.42 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 49.27  | 16.42 | 3.18*              | 3.05     | 4.82 |
| G                | 2  | 3.17   | 1.59  | 0.31 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 28.39  | 4.73  | 0.92 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 113.68 | 5.17  |                    |          |      |
| Total            | 35 | 233.81 |       |                    |          |      |

KK :1.93 %

Keterangan:

tn = Tidak berpengaruh nyata.

\* = Berpengaruh nyata.

Tabel Lampiran 16a. Rata-rata kadar air (%)

| Perlakuan | Kelompok |        |        | Total   | Rata-rata |
|-----------|----------|--------|--------|---------|-----------|
|           | I        | II     | III    |         |           |
| m0g1      | 42.10    | 45.30  | 43.20  | 130.60  | 43.53     |
| m0g2      | 48.60    | 45.30  | 47.40  | 141.30  | 47.10     |
| m0g3      | 50.00    | 48.60  | 39.70  | 138.30  | 46.10     |
| m1g1      | 46.90    | 44.60  | 50.90  | 142.40  | 47.47     |
| m1g2      | 47.80    | 50.90  | 53.60  | 152.30  | 50.77     |
| m1g3      | 46.80    | 41.90  | 53.20  | 141.90  | 47.30     |
| m2g1      | 51.30    | 43.10  | 48.50  | 142.90  | 47.63     |
| m2g2      | 42.00    | 47.60  | 50.00  | 139.60  | 46.53     |
| m2g3      | 49.10    | 52.30  | 42.90  | 144.30  | 48.10     |
| m3g1      | 50.00    | 41.00  | 52.10  | 143.10  | 47.70     |
| m3g2      | 42.80    | 55.80  | 52.80  | 151.40  | 50.47     |
| m3g3      | 51.10    | 44.60  | 52.30  | 148.00  | 49.33     |
| Total     | 568.50   | 561.00 | 586.60 | 1716.10 | 47.67     |

Tabel Lampiran 16b. Sidik ragam rata-rata kadar air

| Sumber Keragaman | DB | JK     | KT    | F. Hitung          | F. Tabel |      |
|------------------|----|--------|-------|--------------------|----------|------|
|                  |    |        |       |                    | 0.05     | 0.01 |
| Kelompok         | 2  | 28.87  | 14.43 | 0.70 <sup>tn</sup> | 3.44     | 5.72 |
| Perlakuan        | 11 | 125.21 | 11.38 | 0.55 <sup>tn</sup> | 2.26     | 3.18 |
| M                | 3  | 66.48  | 22.16 | 1.07 <sup>tn</sup> | 3.05     | 4.82 |
| G                | 2  | 27.33  | 13.67 | 0.66 <sup>tn</sup> | 3.44     | 5.72 |
| M x G            | 6  | 31.40  | 5.23  | 0.25 <sup>tn</sup> | 2.55     | 3.76 |
| Galat            | 22 | 456.48 | 20.75 |                    |          |      |
| Total            | 35 | 610.56 |       |                    |          |      |

KK : 9.56 %

Keterangan:

tn = Tidak berpengaruh nyata.

Tabel Lampiran 17 Deskripsi Kentang Varietas Granola

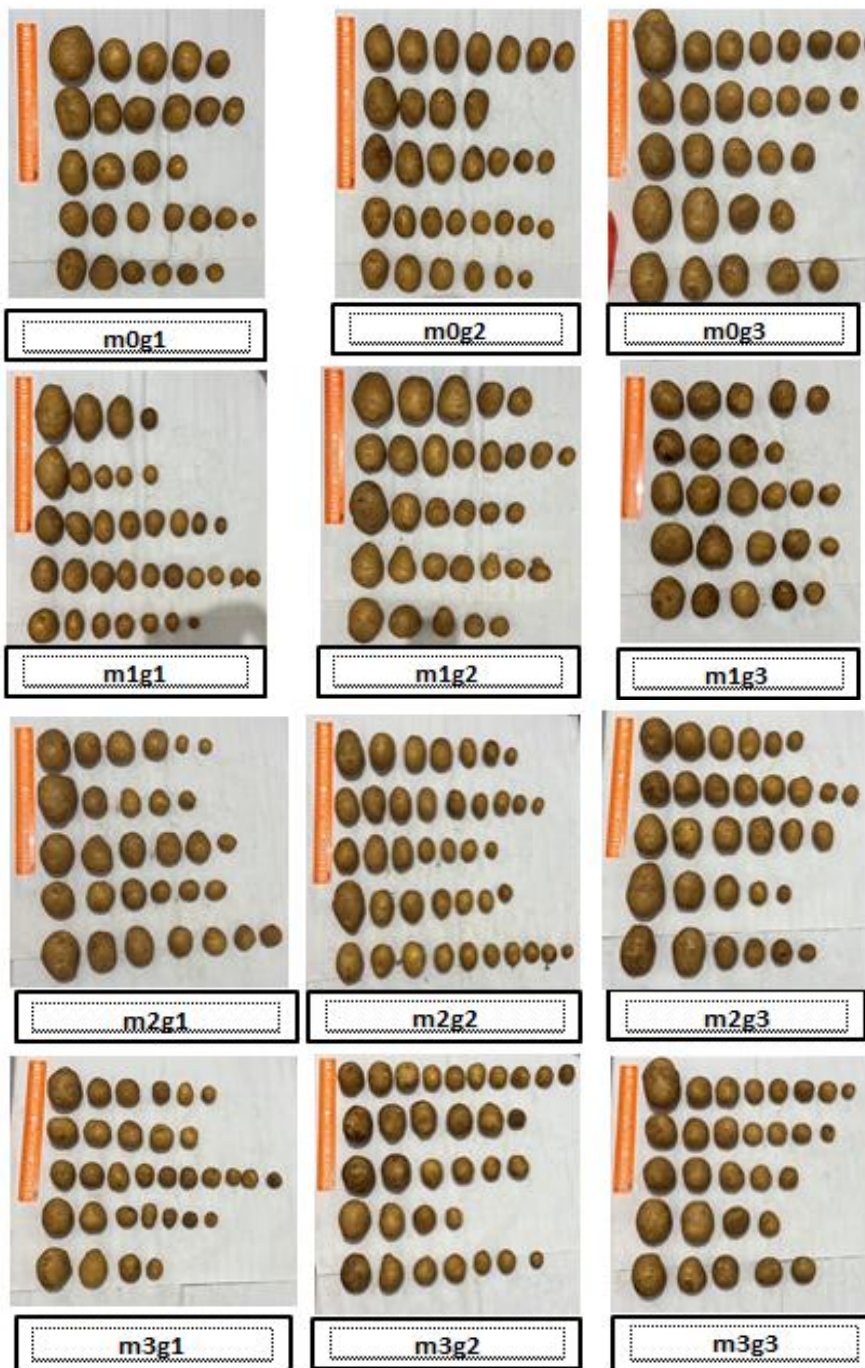
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|                             |  |
|-----------------------------|--|
| Asal                        | : Introduksi dari Jerman Barat   |
| Klon                        | : Granola  |
| Umur tanaman                | : 100-115 hari   |
| Bentuk penampang batang     | : Segi Lima  |
| Bentuk Daun                 | : Oval   |
| Warna Umbi                  | : Coklat Muda  |
| Sayap Batang                | : Rata   |
| Permukaan bawah daun        | : Berkerut   |
| Mata umbi                   | : Dangkal  |
| Permukaan umbi              | : Halus  |
| Warna batang                | : Hijau  |
| Warna daun                  | : Hijau  |
| Warna urat utama daun       | : Hijau muda   |
| Warna benang sari           | : Kuning, 5 buah   |
| Tinggi tanaman              | : 60-70 cm (65 cm)   |
| Warna putik                 | : Putih  |
| Warna kulit umbi            | : Kuning Putih   |
| Warna daging umbi           | : Kuning   |
| Jumlah tandan bunga         | : 2-5 buah   |
| Hasil rata-rata/ha          | : 26,5 ton   |
| Kualitas umbi               | : Baik   |
| Kandungan karbohidrat       | : $\pm 12\%$   |
| Kandungan vitamin C         | : $\pm 13$ mg/100g bahan   |
| Ketahanan terhadap penyakit | :Tahan terhadap PVA dan PVY, Agak peka terhadap penyakit layu bakteri(pseudomonas solanacearum) dan penyakit busuk daun (phytophthora infestans) |
| Keterangan                  | : Baik untuk kentang meja/sayur  |
| Pemulia                     | : Nazifah Umar, Hamzah Basah, Sudjoko sahat, Dadan Supardah D.J, Rusamana Agus Senjaya   |

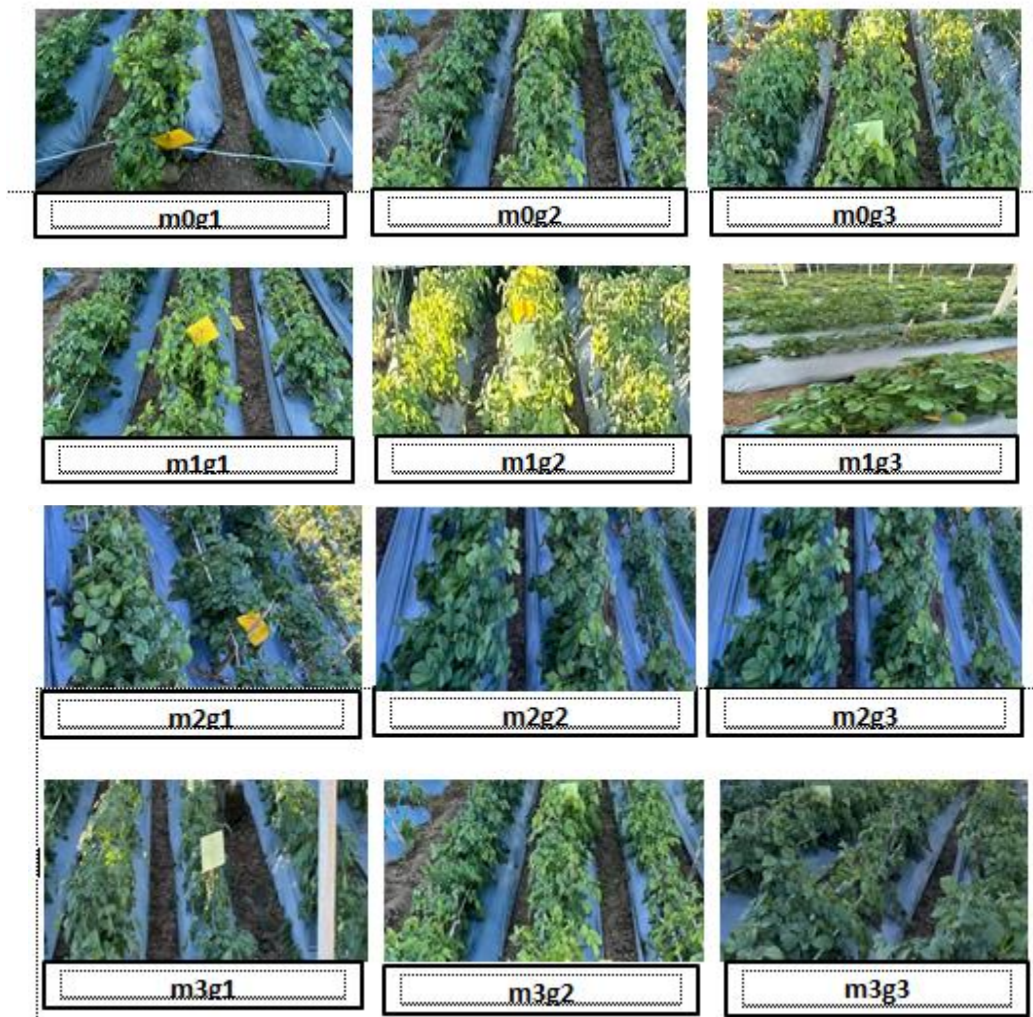
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*Sumber: Balitbangtan 2021.*





Gambar Lampiran 3. Umbi Kentang pada berbagai kombinasi perlakuan



Gambar Lampiran 4. Tanaman Kentang 60 hst pada berbagai kombinasi perlakuan

## DAFTAR RIWAYAT HIDUP

### A. Data Pribadi

1. Nama : Nur Fadilla Razak Carong
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3. Alamat : Ujung Baru, Wonomulyo.
4. Kewarganegaraan : Indonesia



### B. Riwayat Pendidikan

1. Tk Idatha Sidodadi, 2005
2. SDN 006 Sidodadi, 2011
3. SMPN 1 Wonomulyo, 2014
4. SMAN 1 Wonomulyo, 2017
5. (S1) Agroteknologi, Universitas Muslim Indonesia, 2022
6. (S2) Agroteknologi, Universitas Hasanuddin, 2024

### C. Karya Ilmiah yang akan dipublikasikan

N.F.R.carong, Rafiuddin, and K.mantja. 2024. Mycorrhiza and Mineral Fertilizer Effects on Growth and Production of Potato (*Solanum Tuberosum* L.). SABRAO The Society for Advancement of breeding Researches in Asia and Oceania.  
<http://www.sabraojournal.org>

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