

## Lampiran

### Lampiran 1. Denah Penelitian di Lapangan

|          |          |          |
|----------|----------|----------|
| $G_1M_1$ | $G_1M_2$ | $G_3M_1$ |
| $G_0M_2$ | $G_2M_3$ | $G_1M_2$ |
| $G_2M_1$ | $G_2M_2$ | $G_2M_1$ |
| $G_3M_1$ | $G_3M_3$ | $G_0M_1$ |
| $G_0M_1$ | $G_0M_2$ | $G_1M_1$ |
| $G_3M_2$ | $G_1M_3$ | $G_3M_2$ |
| $G_2M_3$ | $G_3M_2$ | $G_2M_2$ |
| $G_1M_2$ | $G_0M_1$ | $G_1M_3$ |
| $G_0M_3$ | $G_2M_1$ | $G_0M_2$ |
| $G_2M_2$ | $G_0M_3$ | $G_3M_3$ |
| $G_1M_3$ | $G_1M_1$ | $G_0M_3$ |
| $G_3M_3$ | $G_3M_1$ | $G_2M_3$ |

**Keterangan:**

Pupuk organic granul:

G<sub>0</sub> : Tanpa pupuk 0 ton / ha (NPK)

G<sub>1</sub> : 3 ton / ha 600g

G<sub>2</sub> : 7 ton / ha 1,4 kg

G<sub>3</sub> : 11 ton / ha 2,3 kg

**Keterangan:**

Pupuk NPK majemuk:

M<sub>1</sub> : 25%

M<sub>2</sub> : 50%

M<sub>3</sub> : 75%

## Lampiran 2. Deskripsi bawang merah Varietas bima brebes

|                                                           |                                                                     |
|-----------------------------------------------------------|---------------------------------------------------------------------|
| Asal                                                      | : Lokal Brebes                                                      |
| Umur                                                      | : mulai berbunga 50 hari<br>-Panen (60 % batang melemas)60hari      |
| Tinggi tanamana                                           | : 34,5 cm (25-44 cm)                                                |
| Kemampuan berbunga                                        | : agak sukar                                                        |
| Banyak anakan                                             | : 7 – 12 umbi per rumpun                                            |
| Bentuk daun                                               | : silindris, berlubang                                              |
| Warna daun                                                | : hijau                                                             |
| Banyak daun                                               | : 14 – 50 helai                                                     |
| Bentuk bunga                                              | : seperti payung                                                    |
| Warna bunga                                               | : putih                                                             |
| Banyak buah/tangkai                                       | : 60 – 100 (83)                                                     |
| Banyak bunga/tangkai                                      | : 120 – 160                                                         |
| (143) Banyak tangkai bunga/rumpun                         | : 2 – 4                                                             |
| Bentuk biji                                               | : bulat, gepeng,keriput                                             |
| Warna biji                                                | : hitam                                                             |
| Bentuk umbi                                               | : lonjong berlicin pada leher cakram                                |
| Warna umbi                                                | : merah mudah                                                       |
| Produksi umbi                                             | : 9,9 ton /ha umbi                                                  |
| kering Susut bobot umbi                                   | : :21,5%                                                            |
| (basah-kering)                                            |                                                                     |
| Ketahanan terhadap penyaki<br>( <i>Botrysallii</i> )      | :cukup tahan terhadap busuk umbi                                    |
| Kepekaan terhadap penyaki<br>( <i>Phytopthtoraporri</i> ) | :Peka terhadap ujung daun                                           |
| Keterangan                                                | : baik untuk dara rendah                                            |
| Peneliti                                                  | : Hendro Sunarjono<br>Prasodjo,Darliah dan Nasran<br>Harizon Arbain |

Sumber: Lampiran Surat Keputusan Menteri Pertanian,  
No.594/TP.240/8/1884

Lampiran 3a. Data Pengaruh Dosis Pupuk Organik Granul dan NPK Majemuk terhadap Jumlah Anakan (buah)

| Perlakuan                     | Kelompok |      |      | Jumlah | Rata-rata |
|-------------------------------|----------|------|------|--------|-----------|
|                               | 1        | 2    | 3    |        |           |
| G <sub>0</sub> M <sub>1</sub> | 4,00     | 3,00 | 4,00 | 11,00  | 3,67      |
| G <sub>0</sub> M <sub>2</sub> | 5,00     | 4,00 | 4,00 | 12,00  | 4,00      |
| G <sub>0</sub> M <sub>3</sub> | 5,00     | 4,00 | 4,00 | 13,00  | 4,33      |
| G <sub>1</sub> M <sub>1</sub> | 6,00     | 4,00 | 4,00 | 14,00  | 4,67      |
| G <sub>1</sub> M <sub>2</sub> | 6,00     | 3,00 | 5,00 | 14,00  | 4,67      |
| G <sub>1</sub> M <sub>3</sub> | 5,00     | 6,00 | 6,00 | 17,00  | 5,67      |
| G <sub>2</sub> M <sub>1</sub> | 5,00     | 5,00 | 5,00 | 15,00  | 5,00      |
| G <sub>2</sub> M <sub>2</sub> | 6,00     | 6,00 | 5,00 | 17,00  | 5,67      |
| G <sub>2</sub> M <sub>3</sub> | 4,00     | 7,00 | 6,00 | 17,00  | 5,67      |
| G <sub>3</sub> M <sub>1</sub> | 6,00     | 5,00 | 6,00 | 17,00  | 5,67      |
| G <sub>3</sub> M <sub>2</sub> | 7,00     | 6,00 | 5,00 | 18,00  | 6,00      |
| G <sub>3</sub> M <sub>3</sub> | 6,00     | 6,00 | 7,00 | 19,00  | 6,33      |

Lampiran 3b. Hasil Analisis Keragaman Jumlah Anakan

| Sumber Keragaman   | Derajat Bebas | Jumlah Kuadrat | Kuadrat Tengah | F-Hitung           | F-tabel |      |
|--------------------|---------------|----------------|----------------|--------------------|---------|------|
|                    |               |                |                |                    | 5 %     | 1 %  |
| Kelompok Perlakuan | 2             | 1,06           | 0,53           | 0,69 <sup>tn</sup> | 3,63    | 6,22 |
| -G                 | 2             | 19,33          | 6,44           | 8,37 <sup>**</sup> | 3,63    | 6,22 |
| -M                 | 2             | 3,39           | 1,69           | 2,20 <sup>tn</sup> | 3,63    | 6,22 |
| -GM                | 6             | 0,83           | 0,14           | 0,18 <sup>tn</sup> | 3,01    | 4,77 |
| Galat              | 22            | 16,94          | 0,77           |                    |         |      |
| Total              | 35            | 41,56          |                |                    |         |      |

Keterangan: tn = berpengaruh tidak nyata  
 \*\* = berpengaruh sangat nyata  
 KK = 17,17 %

Lampiran 4a. Data Pengaruh Dosis Pupuk Organik Granul dan NPK Majemuk terhadap Jumlah Umbi per Rumpun (buah)

| Perlakuan                     | Kelompok |      |      | Jumlah | Rata-rata |
|-------------------------------|----------|------|------|--------|-----------|
|                               | 1        | 2    | 3    |        |           |
| G <sub>0</sub> M <sub>1</sub> | 4,00     | 3,00 | 4,00 | 11,00  | 3,67      |
| G <sub>0</sub> M <sub>2</sub> | 5,00     | 4,00 | 4,00 | 12,00  | 4,00      |
| G <sub>0</sub> M <sub>3</sub> | 5,00     | 4,00 | 4,00 | 13,00  | 4,33      |
| G <sub>1</sub> M <sub>1</sub> | 6,00     | 4,00 | 4,00 | 14,00  | 4,67      |
| G <sub>1</sub> M <sub>2</sub> | 6,00     | 3,00 | 5,00 | 14,00  | 4,67      |
| G <sub>1</sub> M <sub>3</sub> | 5,00     | 6,00 | 6,00 | 17,00  | 5,67      |
| G <sub>2</sub> M <sub>1</sub> | 5,00     | 5,00 | 5,00 | 15,00  | 5,00      |
| G <sub>2</sub> M <sub>2</sub> | 6,00     | 6,00 | 5,00 | 17,00  | 5,67      |
| G <sub>2</sub> M <sub>3</sub> | 4,00     | 7,00 | 6,00 | 17,00  | 5,67      |
| G <sub>3</sub> M <sub>1</sub> | 6,00     | 5,00 | 6,00 | 17,00  | 5,67      |
| G <sub>3</sub> M <sub>2</sub> | 7,00     | 6,00 | 5,00 | 18,00  | 6,00      |
| G <sub>3</sub> M <sub>3</sub> | 6,00     | 6,00 | 7,00 | 19,00  | 6,33      |

Lampiran 4b. Hasil Analisis Keragaman Jumlah Umbi per Rumpun

| Sumber Keragaman   | Derajat Bebas | Jumlah Kuadrat | Kuadrat Tengah | F-Hitung           | F-tabel |      |
|--------------------|---------------|----------------|----------------|--------------------|---------|------|
|                    |               |                |                |                    | 5 %     | 1 %  |
| Kelompok Perlakuan | 2             | 1,06           | 0,53           | 0,69 <sup>tn</sup> | 3,63    | 6,22 |
| -G                 | 2             | 19,33          | 6,44           | 8,37 <sup>**</sup> | 3,63    | 6,22 |
| -M                 | 2             | 3,39           | 1,69           | 2,20 <sup>tn</sup> | 3,63    | 6,22 |
| -GM                | 6             | 0,83           | 0,14           | 0,18 <sup>tn</sup> | 3,01    | 4,77 |
| Galat              | 22            | 16,94          | 0,77           |                    |         |      |
| Total              | 35            | 41,56          |                |                    |         |      |

Keterangan: tn = berpengaruh tidak nyata  
 \*\* = berpengaruh sangat nyata  
 KK = 17,17 %

Lampiran 5a. Data Pengaruh Dosis Pupuk Organik Granul dan NPK Majemuk terhadap Ketersediaan P (mg/100g)

| Perlakuan                     | Kelompok |        |        | Jumlah | Rata-rata |
|-------------------------------|----------|--------|--------|--------|-----------|
|                               | 1        | 2      | 3      |        |           |
| G <sub>0</sub> M <sub>1</sub> | 234,30   | 231,00 | 237,60 | 702,90 | 234,30    |
| G <sub>0</sub> M <sub>2</sub> | 244,19   | 238,38 | 250,00 | 732,57 | 244,19    |
| G <sub>0</sub> M <sub>3</sub> | 273,80   | 266,60 | 281,00 | 821,16 | 273,80    |
| G <sub>1</sub> M <sub>1</sub> | 244,51   | 251,25 | 237,77 | 733,53 | 244,51    |
| G <sub>1</sub> M <sub>2</sub> | 258,23   | 252,00 | 264,46 | 774,69 | 258,23    |
| G <sub>1</sub> M <sub>3</sub> | 280,89   | 290,51 | 271,27 | 842,67 | 280,89    |
| G <sub>2</sub> M <sub>1</sub> | 258,08   | 254,32 | 261,84 | 774,24 | 258,08    |
| G <sub>2</sub> M <sub>2</sub> | 261,75   | 262,45 | 261,05 | 785,25 | 261,75    |
| G <sub>2</sub> M <sub>3</sub> | 281,17   | 283,84 | 278,50 | 843,51 | 281,17    |
| G <sub>3</sub> M <sub>1</sub> | 272,20   | 281,00 | 263,40 | 816,60 | 272,20    |
| G <sub>3</sub> M <sub>2</sub> | 273,80   | 266,60 | 281,00 | 821,40 | 273,80    |
| G <sub>3</sub> M <sub>3</sub> | 281,90   | 285,80 | 278,00 | 845,70 | 281,90    |

Lampiran 5b. Hasil Analisis Keragaman Ketersediaan P

| Sumber Keragaman   | Derajat Bebas | Jumlah Kuadrat | Kuadrat Tengah | F-Hitung            | F-tabel |      |
|--------------------|---------------|----------------|----------------|---------------------|---------|------|
|                    |               |                |                |                     | 5 %     | 1 %  |
| Kelompok Perlakuan | 2             | 0,19           | 0,09           | 0,001 <sup>tn</sup> | 3,63    | 6,22 |
| -G                 | 2             | 3014,22        | 1004,74        | 25,15 <sup>**</sup> | 3,63    | 6,22 |
| -M                 | 2             | 4752,52        | 2376,20        | 59,48 <sup>**</sup> | 3,63    | 6,22 |
| -GM                | 6             | 893,63         | 48,93          | 3,73 <sup>*</sup>   | 3,01    | 4,77 |
| Galat              | 22            | 878,84         | 39,95          |                     |         |      |
| Total              | 35            | 9539,30        |                |                     |         |      |

Keterangan: tn = berpengaruh tidak nyata  
 \*\* = berpengaruh sangat nyata  
 \* = berpengaruh nyata  
 KK = 2,39 %

Lampiran 6a. Data Pengaruh Dosis Pupuk Organik Granul dan NPK Majemuk terhadap Berat Umbi per Rumpun (g)

| Perlakuan                     | Kelompok |       |       | Jumlah | Rata-rata |
|-------------------------------|----------|-------|-------|--------|-----------|
|                               | 1        | 2     | 3     |        |           |
| G <sub>0</sub> M <sub>1</sub> | 22,00    | 18,00 | 21,00 | 61,00  | 20,33     |
| G <sub>0</sub> M <sub>2</sub> | 20,00    | 21,00 | 21,00 | 62,00  | 20,67     |
| G <sub>0</sub> M <sub>3</sub> | 25,00    | 32,00 | 25,00 | 82,00  | 27,33     |
| G <sub>1</sub> M <sub>1</sub> | 23,00    | 21,00 | 27,00 | 71,00  | 23,67     |
| G <sub>1</sub> M <sub>2</sub> | 33,00    | 23,00 | 22,00 | 78,00  | 26,00     |
| G <sub>1</sub> M <sub>3</sub> | 33,00    | 40,00 | 34,00 | 107,00 | 35,67     |
| G <sub>2</sub> M <sub>1</sub> | 30,00    | 31,00 | 30,00 | 91,00  | 30,33     |
| G <sub>2</sub> M <sub>2</sub> | 40,00    | 31,00 | 43,00 | 114,00 | 38,00     |
| G <sub>2</sub> M <sub>3</sub> | 48,00    | 40,00 | 38,00 | 126,00 | 42,00     |
| G <sub>3</sub> M <sub>1</sub> | 40,00    | 44,00 | 30,00 | 114,00 | 38,00     |
| G <sub>3</sub> M <sub>2</sub> | 40,00    | 38,00 | 45,00 | 123,00 | 41,00     |
| G <sub>3</sub> M <sub>3</sub> | 33,00    | 52,00 | 46,00 | 131,00 | 43,60     |

Lampiran 6b. Hasil Analisis Keragaman Berat Umbi per Rumpun

| Sumber Keragaman   | Derajat Bebas | Jumlah Kuadrat | Kuadrat Tengah | F-Hitung            | F-tabel |      |
|--------------------|---------------|----------------|----------------|---------------------|---------|------|
|                    |               |                |                |                     | 5 %     | 1 %  |
| Kelompok Perlakuan | 2             | 3,50           | 1,75           | 0,06 <sup>tn</sup>  | 3,63    | 6,22 |
| -G                 | 2             | 1759,67        | 586,57         | 19,60 <sup>**</sup> | 3,63    | 6,22 |
| -M                 | 2             | 487,17         | 243,58         | 8,14 <sup>**</sup>  | 3,63    | 6,22 |
| -GM                | 6             | 98,17          | 16,36          | 0,55 <sup>tn</sup>  | 3,01    | 4,77 |
| Galat              | 22            | 658,50         | 29,93          |                     |         |      |
| Total              | 35            | 3007,00        |                |                     |         |      |

Keterangan: tn = berpengaruh tidak nyata  
 \*\* = berpengaruh sangat nyata  
 KK = 17,01 %

Lampiran 7a. Data Pengaruh Dosis Pupuk Organik Granul dan NPK Majemuk terhadap Berat Umbi per Petak (%)

| Perlakuan                     | Kelompok |      |      | Jumlah | Rata-rata |
|-------------------------------|----------|------|------|--------|-----------|
|                               | 1        | 2    | 3    |        |           |
| G <sub>0</sub> M <sub>1</sub> | 1,27     | 1,72 | 1,61 | 4,60   | 1,53      |
| G <sub>0</sub> M <sub>2</sub> | 1,59     | 1,99 | 1,62 | 5,20   | 1,73      |
| G <sub>0</sub> M <sub>3</sub> | 0,95     | 2,24 | 2,48 | 5,67   | 1,89      |
| G <sub>1</sub> M <sub>1</sub> | 1,78     | 1,73 | 1,31 | 4,82   | 1,61      |
| G <sub>1</sub> M <sub>2</sub> | 1,81     | 1,81 | 1,69 | 5,31   | 1,77      |
| G <sub>1</sub> M <sub>3</sub> | 1,45     | 2,79 | 1,92 | 6,16   | 2,05      |
| G <sub>2</sub> M <sub>1</sub> | 1,40     | 1,90 | 2,04 | 5,34   | 1,78      |
| G <sub>2</sub> M <sub>2</sub> | 1,93     | 1,44 | 2,14 | 5,51   | 1,84      |
| G <sub>2</sub> M <sub>3</sub> | 2,35     | 2,14 | 1,71 | 6,20   | 2,07      |
| G <sub>3</sub> M <sub>1</sub> | 2,41     | 1,77 | 1,33 | 5,51   | 1,84      |
| G <sub>3</sub> M <sub>2</sub> | 2,21     | 1,84 | 2,19 | 6,24   | 2,08      |
| G <sub>3</sub> M <sub>3</sub> | 2,64     | 1,49 | 2,99 | 7,12   | 2,37      |

Lampiran 7b. Hasil Analisis Keragaman Berat Umbi per Petak

| Sumber Keragaman   | Derajat Bebas | Jumlah Kuadrat | Kuadrat Tengah | F-Hitung           | F-tabel |      |
|--------------------|---------------|----------------|----------------|--------------------|---------|------|
|                    |               |                |                |                    | 5 %     | 1 %  |
| Kelompok Perlakuan | 2             | 0,08           | 0,04           | 0,16 <sup>tn</sup> | 3,63    | 6,22 |
| -G                 | 2             | 0,70           | 0,23           | 1,00 <sup>tn</sup> | 3,63    | 6,22 |
| -M                 | 2             | 1,00           | 0,50           | 2,14 <sup>tn</sup> | 3,63    | 6,22 |
| -GM                | 4             | 0,07           | 0,01           | 0,05 <sup>tn</sup> | 3,01    | 4,77 |
| Galat              | 22            | 5,16           | 0,23           |                    |         |      |
| Total              | 35            | 7,00           |                |                    |         |      |

Keterangan: tn = berpengaruh tidak nyata  
 KK = 25,76 %