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# LAMPIRAN

Lampiran 1. Hasil Pengukuran Pertumbuhan Tanaman Kopi di PU 1

| PU | Jenis   | Tinggi | T. Tajuk | Diameter | Diameter Tajuk | Cabang |
|----|---------|--------|----------|----------|----------------|--------|
| 1  | Arabika | 2.3    | 1.9      | 3.2      | 1.4            | 21     |
| 1  | Arabika | 2.4    | 1.8      | 3.2      | 1.7            | 26     |
| 1  | Arabika | 1.8    | 1.2      | 3.2      | 1.9            | 27     |
| 1  | Arabika | 2.5    | 2.1      | 3.5      | 1.9            | 22     |
| 1  | Arabika | 2.0    | 1.5      | 2.9      | 1.9            | 28     |
| 1  | Arabika | 1.8    | 0.8      | 3.5      | 1.6            | 16     |
| 1  | Arabika | 2.1    | 0.7      | 3.2      | 0.8            | 14     |
| 1  | Arabika | 2.7    | 1.9      | 3.5      | 1.2            | 21     |
| 1  | Arabika | 2.4    | 1.6      | 2.9      | 1.4            | 23     |
| 1  | Arabika | 1.8    | 1.0      | 2.9      | 1.0            | 23     |
| 1  | Arabika | 1.5    | 1.0      | 2.9      | 0.8            | 25     |
| 1  | Arabika | 1.7    | 1.0      | 3.2      | 0.8            | 26     |
| 1  | Arabika | 1.6    | 0.6      | 3.2      | 1.5            | 28     |
| 1  | Arabika | 1.9    | 1.0      | 3.2      | 1.0            | 27     |
| 1  | Arabika | 1.7    | 1.2      | 3.5      | 1.0            | 21     |
| 1  | Arabika | 1.5    | 0.3      | 3.5      | 0.8            | 17     |
| 1  | Arabika | 1.6    | 1.1      | 3.5      | 0.9            | 23     |
| 1  | Arabika | 2.2    | 1.7      | 5.4      | 1.2            | 34     |
| 1  | Arabika | 1.8    | 1.4      | 4.8      | 1.2            | 28     |
| 1  | Arabika | 1.4    | 0.8      | 4.8      | 1.2            | 16     |
| 1  | Arabika | 1.3    | 1.1      | 3.5      | 1.7            | 6      |
| 1  | Arabika | 1.3    | 1.1      | 2.2      | 1.0            | 27     |
| 1  | Arabika | 2.1    | 1.9      | 2.2      | 1.3            | 35     |
| 1  | Arabika | 2.0    | 1.9      | 3.2      | 1.6            | 31     |
| 1  | Arabika | 2.5    | 2.2      | 3.5      | 1.6            | 37     |
| 1  | Arabika | 1.6    | 1.3      | 2.5      | 1.2            | 25     |
| 1  | Arabika | 2.1    | 1.8      | 3.2      | 1.3            | 23     |
| 1  | Arabika | 1.8    | 1.4      | 2.5      | 1.4            | 21     |
| 1  | Arabika | 3.7    | 2.7      | 4.5      | 1.4            | 4      |
| 1  | Arabika | 1.9    | 1.5      | 2.5      | 1.4            | 19     |
| 1  | Arabika | 2.1    | 1.7      | 3.5      | 1.6            | 23     |
| 1  | Arabika | 1.6    | 1.2      | 3.2      | 1.8            | 23     |
| 1  | Arabika | 2.0    | 0.2      | 5.7      | 2.5            | 5      |
| 1  | Arabika | 2.1    | 1.7      | 3.2      | 1.7            | 14     |
| 1  | Arabika | 1.6    | 1.4      | 5.4      | 0.8            | 10     |
| 1  | Arabika | 3.0    | 2.0      | 4.8      | 1.0            | 12     |
| 1  | Robusta | 1.2    | 0.2      | 4.8      | 0.5            | 2      |
| 1  | Robusta | 2.6    | 1.3      | 5.4      | 1.4            | 13     |
| 1  | Robusta | 1.8    | 0.4      | 4.1      | 2.1            | 8      |

## Lampiran 2. Hasil Pengukuran Pertumbuhan Tanaman Kopi di PU 2

| PU | Jenis   | Tinggi | T. Tajuk | Diameter | Diameter Tajuk (m) | Cabang |
|----|---------|--------|----------|----------|--------------------|--------|
| 2  | Arabika | 2.5    | 1.7      | 4.8      | 2.0                | 45     |
| 2  | Arabika | 2.4    | 2.2      | 4.1      | 1.7                | 31     |
| 2  | Arabika | 2.3    | 2.2      | 4.8      | 1.6                | 43     |
| 2  | Arabika | 3.0    | 1.4      | 5.4      | 2.8                | 36     |
| 2  | Arabika | 2.8    | 2.2      | 5.1      | 1.9                | 38     |
| 2  | Arabika | 1.8    | 1.2      | 3.8      | 1.5                | 14     |
| 2  | Arabika | 2.4    | 2.0      | 5.1      | 1.9                | 38     |
| 2  | Arabika | 2.2    | 2.1      | 5.4      | 1.5                | 23     |
| 2  | Arabika | 1.9    | 1.7      | 4.5      | 1.8                | 28     |
| 2  | Arabika | 2.4    | 2.2      | 5.4      | 2.3                | 33     |
| 2  | Arabika | 1.5    | 1.1      | 3.5      | 1.5                | 25     |
| 2  | Arabika | 2.4    | 1.8      | 5.1      | 1.9                | 39     |
| 2  | Arabika | 1.7    | 1.2      | 4.8      | 1.7                | 26     |
| 2  | Arabika | 3.1    | 2.3      | 5.4      | 1.7                | 21     |
| 2  | Arabika | 1.6    | 1.2      | 4.5      | 1.1                | 24     |
| 2  | Arabika | 2.6    | 1.8      | 5.4      | 1.9                | 32     |
| 2  | Arabika | 3.2    | 2.8      | 5.7      | 3.1                | 48     |
| 2  | Arabika | 2.1    | 1.9      | 4.1      | 1.7                | 39     |
| 2  | Arabika | 1.9    | 1.8      | 4.8      | 1.5                | 55     |
| 2  | Arabika | 1.8    | 1.3      | 4.5      | 1.8                | 17     |
| 2  | Arabika | 2.3    | 2.0      | 4.8      | 1.8                | 44     |
| 2  | Arabika | 4.0    | 3.0      | 8.0      | 2.0                | 44     |
| 2  | Arabika | 2.2    | 1.7      | 4.1      | 1.8                | 56     |
| 2  | Arabika | 2.4    | 2.0      | 4.8      | 2.0                | 21     |
| 2  | Arabika | 2.5    | 2.0      | 5.1      | 1.6                | 54     |
| 2  | Arabika | 3.6    | 2.0      | 4.8      | 1.4                | 23     |
| 2  | Arabika | 3.0    | 2.7      | 5.1      | 2.0                | 5      |
| 2  | Robusta | 4.5    | 3.0      | 4.8      | 3.3                | 52     |
| 2  | Robusta | 1.6    | 1.4      | 2.4      | 1.9                | 28     |
| 2  | Robusta | 2.9    | 2.8      | 7.6      | 3.1                | 21     |
| 2  | Robusta | 2.3    | 1.1      | 3.2      | 1.6                | 34     |
| 2  | Robusta | 1.7    | 0.5      | 2.9      | 1.0                | 4      |

Lampiran 3. Hasil Pengukuran Pertumbuhan Tanaman Kopi di PU 3

| PU | Jenis   | Tinggi | T. Tajuk | Diameter | Diameter Tajuk (m) | Cabang |
|----|---------|--------|----------|----------|--------------------|--------|
| 3  | Arabika | 3.2    | 1.2      | 3.5      | 1.3                | 12     |
| 3  | Arabika | 4.0    | 2.2      | 4.1      | 2.1                | 38     |
| 3  | Arabika | 2.6    | 2.0      | 3.8      | 2.4                | 34     |
| 3  | Arabika | 2.6    | 1.9      | 5.4      | 2.1                | 8      |
| 3  | Arabika | 2.4    | 1.8      | 4.0      | 2.1                | 22     |
| 3  | Arabika | 1.5    | 0.9      | 3.2      | 0.8                | 5      |
| 3  | Arabika | 1.5    | 0.6      | 1.3      | 1.0                | 7      |
| 3  | Arabika | 1.4    | 0.6      | 3.8      | 1.6                | 9      |
| 3  | Arabika | 2.4    | 1.8      | 4.1      | 2.1                | 18     |
| 3  | Arabika | 3.1    | 1.5      | 5.1      | 1.6                | 15     |
| 3  | Arabika | 2.8    | 1.1      | 5.1      | 0.7                | 8      |
| 3  | Arabika | 2.8    | 1.7      | 3.8      | 2.4                | 16     |
| 3  | Arabika | 3.1    | 1.6      | 4.5      | 2.2                | 16     |
| 3  | Robusta | 2.4    | 1.3      | 4.5      | 2.2                | 18     |
| 3  | Robusta | 2.8    | 2.1      | 3.2      | 1.8                | 13     |
| 3  | Robusta | 2.8    | 2.4      | 5.4      | 3.0                | 24     |
| 3  | Robusta | 1.8    | 0.4      | 1.9      | 1.2                | 11     |
| 3  | Robusta | 1.6    | 0.8      | 2.2      | 0.9                | 8      |
| 3  | Robusta | 1.8    | 0.7      | 2.5      | 1.2                | 5      |
| 3  | Robusta | 2.6    | 1.3      | 5.7      | 3.2                | 11     |
| 3  | Robusta | 1.6    | 1.3      | 3.8      | 1.3                | 7      |
| 3  | Robusta | 1.9    | 0.2      | 3.8      | 0.7                | 4      |
| 3  | Robusta | 3.5    | 1.3      | 5.7      | 2.2                | 34     |
| 3  | Robusta | 2.6    | 1.4      | 5.7      | 1.7                | 26     |
| 3  | Robusta | 1.9    | 1.3      | 5.7      | 2.8                | 13     |
| 3  | Robusta | 2.7    | 1.7      | 4.5      | 2.6                | 17     |
| 3  | Robusta | 2.4    | 1.1      | 5.7      | 1.8                | 6      |
| 3  | Robusta | 2.7    | 1.3      | 5.1      | 2.1                | 22     |
| 3  | Robusta | 2.6    | 1.8      | 4.5      | 2.6                | 21     |
| 3  | Robusta | 3.6    | 2.3      | 7.3      | 3.8                | 31     |
| 3  | Robusta | 3.8    | 2.9      | 3.8      | 1.5                | 22     |
| 3  | Robusta | 1.5    | 0.9      | 2.9      | 2.6                | 12     |
| 3  | Robusta | 4.0    | 2.8      | 6.7      | 2.1                | 14     |
| 3  | Robusta | 3.5    | 2.0      | 4.8      | 1.8                | 22     |
| 3  | Robusta | 3.0    | 1.6      | 4.8      | 1.9                | 28     |
| 3  | Robusta | 3.0    | 1.6      | 6.1      | 1.9                | 18     |

**Lampiran 4. Hasil Pengukuran Pertumbuhan Pohon Penaung Pada PU 1**

| No               | Jenis Tanaman | Nama Ilmiah                     | Tinggi        |               | Diameter      |               | Kategori |
|------------------|---------------|---------------------------------|---------------|---------------|---------------|---------------|----------|
|                  |               |                                 | Pohon (m)     | TBC (m)       | Batang (cm)   | Tajuk (m)     |          |
| 1                | Sengon        | <i>Falcataria moluccana</i>     | 26            | 18            | 26,8          | 5,0           | Penaung  |
| 2                | Sengon        | <i>Falcataria moluccana</i>     | 12            | 8             | 8,3           | 3,5           | Penaung  |
| 3                | Alpukat       | <i>Persea americana</i>         | 3             | 1             | 4,5           | 2,0           | Penaung  |
| 4                | Sengon        | <i>Falcataria moluccana</i>     | 11            | 4             | 7,6           | 3,0           | Penaung  |
| 5                | Sengon        | <i>Falcataria moluccana</i>     | 12            | 9             | 7,6           | 2,5           | Penaung  |
| 6                | Alpukat       | <i>Persea americana</i>         | 8             | 2             | 6,7           | 2,4           | Penaung  |
| 7                | Nangka        | <i>Artocarpus heterophyllus</i> | 11            | 4             | 9,9           | 1,9           | Penaung  |
| 8                | Sengon        | <i>Falcataria moluccana</i>     | 27            | 9             | 16,2          | 5,5           | Penaung  |
| 9                | Sengon        | <i>Falcataria moluccana</i>     | 11            | 9             | 5,4           | 1,5           | Penaung  |
| 10               | Sengon        | <i>Falcataria moluccana</i>     | 18            | 11            | 8,9           | 3,0           | Penaung  |
| 11               | Sengon        | <i>Falcataria moluccana</i>     | 24            | 10            | 14,0          | 4,5           | Penaung  |
| 12               | Sengon        | <i>Falcataria moluccana</i>     | 28            | 14            | 19,1          | 5,0           | Penaung  |
| 13               | Sengon        | <i>Falcataria moluccana</i>     | 8             | 7             | 4,5           | 2,5           | Penaung  |
| 14               | Sengon        | <i>Falcataria moluccana</i>     | 18            | 12            | 11,8          | 3,0           | Penaung  |
| 15               | Sengon        | <i>Falcataria moluccana</i>     | 17            | 7             | 11,5          | 4,0           | Penaung  |
| 16               | Sengon        | <i>Falcataria moluccana</i>     | 17            | 10            | 8,0           | 3,0           | Penaung  |
| 17               | Nangka        | <i>Artocarpus heterophyllus</i> | 16            | 4             | 15,3          | 3,0           | Penaung  |
| 18               | Sengon        | <i>Falcataria moluccana</i>     | 17            | 11            | 10,5          | 4,0           | Penaung  |
| 19               | Waru          | <i>Hibiscus tiliaceus L,</i>    | 7             | 3             | 4,5           | 2,0           | Penaung  |
| 20               | Sengon        | <i>Falcataria moluccana</i>     | 11            | 7             | 7,0           | 4,0           | Penaung  |
| 21               | Sengon        | <i>Falcataria moluccana</i>     | 19            | 9             | 14,6          | 5,5           | Penaung  |
| 22               | Sengon        | <i>Falcataria moluccana</i>     | 18            | 8             | 11,5          | 4,0           | Penaung  |
| 23               | Sengon        | <i>Falcataria moluccana</i>     | 19            | 9             | 12,1          | 5,0           | Penaung  |
| 24               | Sengon        | <i>Falcataria moluccana</i>     | 14            | 9             | 10,8          | 4,0           | Penaung  |
| 25               | Saman         | <i>Samanea saman</i>            | 34            | 12            | 45,9          | 9,5           | Penaung  |
| 26               | Nangka        | <i>Artocarpus heterophyllus</i> | 6             | 4             | 17,8          | 1,8           | Penaung  |
| 27               | Sengon        | <i>Falcataria moluccana</i>     | 30            | 12            | 18,2          | 5,0           | Penaung  |
| 28               | Sengon        | <i>Falcataria moluccana</i>     | 9             | 7             | 5,4           | 2,5           | Penaung  |
| <b>Jumlah</b>    |               |                                 | <b>449,90</b> | <b>230,20</b> | <b>344,27</b> | <b>102,50</b> |          |
| <b>Rata-rata</b> |               |                                 | <b>16,07</b>  | <b>8,22</b>   | <b>12,30</b>  | <b>3,66</b>   |          |

**Lampiran 5. Hasil Pengukuran Pertumbuhan Pohon Penaung Pada PU 2**

| No               | Jenis Tanaman | Nama Ilmiah                     | Tinggi        |              | Diameter      |              | Kategori |
|------------------|---------------|---------------------------------|---------------|--------------|---------------|--------------|----------|
|                  |               |                                 | Pohon (m)     | TBC (m)      | Batang (cm)   | Tajuk (m)    |          |
| 1                | Nangka        | <i>Artocarpus heterophyllus</i> | 12,0          | 3,5          | 18,2          | 3,5          | Penaung  |
| 2                | Sengon        | <i>Falcataria moluccana</i>     | 5,0           | 2,0          | 3,8           | 2,2          | Penaung  |
| 3                | Sengon        | <i>Falcataria moluccana</i>     | 11,0          | 4,0          | 11,8          | 4,0          | Penaung  |
| 4                | Alpukat       | <i>Persea americana</i>         | 3,0           | 1,5          | 5,4           | 2,5          | Penaung  |
| 5                | Sengon        | <i>Falcataria moluccana</i>     | 3,0           | 1,6          | 3,5           | 2,0          | Penaung  |
| 6                | Sengon        | <i>Falcataria moluccana</i>     | 31,0          | 11,0         | 22,6          | 6,5          | Penaung  |
| 7                | Alpukat       | <i>Persea americana</i>         | 2,6           | 1,2          | 5,7           | 1,7          | Penaung  |
| 8                | Alpukat       | <i>Persea americana</i>         | 1,6           | 0,6          | 3,5           | 1,3          | Penaung  |
| 9                | Saman         | <i>Samanea saman</i>            | 5,5           | 4,7          | 8,0           | 3,6          | Penaung  |
| 10               | Sengon        | <i>Falcataria moluccana</i>     | 14,0          | 12,0         | 8,9           | 3,0          | Penaung  |
| 11               | Alpukat       | <i>Persea americana</i>         | 2,6           | 2,6          | 6,1           | 1,7          | Penaung  |
| 12               | Sengon        | <i>Falcataria moluccana</i>     | 27,0          | 20,0         | 29,0          | 9,0          | Penaung  |
| 13               | Mahoni        | <i>Swietenia mahagoni</i>       | 11,0          | 6,0          | 15,9          | 1,8          | Penaung  |
| 14               | Nangka        | <i>Artocarpus heterophyllus</i> | 14,0          | 2,5          | 33,4          | 6,5          | Penaung  |
| 15               | Nangka        | <i>Artocarpus heterophyllus</i> | 10,0          | 1,8          | 30,9          | 6,0          | Penaung  |
| <b>Jumlah</b>    |               |                                 | <b>153,30</b> | <b>75,00</b> | <b>206.73</b> | <b>55,20</b> |          |
| <b>Rata-rata</b> |               |                                 | <b>10,22</b>  | <b>5,00</b>  | <b>13.78</b>  | <b>3,68</b>  |          |

**Lampiran 6. Hasil Pengukuran Pertumbuhan Pohon Penaung Pada PU 3**

| No               | Jenis Tanaman | Nama Ilmiah                     | Tinggi        |               | Diameter      |               | Kategori |
|------------------|---------------|---------------------------------|---------------|---------------|---------------|---------------|----------|
|                  |               |                                 | Pohon (m)     | TBC (m)       | Batang (cm)   | Tajuk (m)     |          |
| 1                | Sengon        | <i>Falcataria moluccana</i>     | 34,0          | 12,0          | 20,7          | 4,5           | Penaung  |
| 2                | Mahoni        | <i>Swietenia mahagoni</i>       | 18,0          | 2,5           | 18,5          | 3,6           | Penaung  |
| 3                | Sengon        | <i>Falcataria moluccana</i>     | 18,0          | 8,0           | 14,0          | 5,2           | Penaung  |
| 4                | Durian        | <i>Durio zibethinus</i>         | 8,0           | 3,0           | 14,6          | 7,0           | Penaung  |
| 5                | Mahoni        | <i>Swietenia mahagoni</i>       | 12,0          | 3,5           | 14,6          | 1,5           | Penaung  |
| 6                | Saman         | <i>Samanea saman</i>            | 5,5           | 4,8           | 8,9           | 3,5           | Penaung  |
| 7                | Nangka        | <i>Artocarpus heterophyllus</i> | 24,0          | 3,0           | 21,7          | 4,0           | Penaung  |
| 8                | Durian        | <i>Durio zibethinus</i>         | 6,0           | 2,0           | 10,2          | 5,5           | Penaung  |
| 9                | Kelapa        | <i>Cocos nucifera L.</i>        | 24,0          | 22,5          | 24,8          | 3,5           | Penaung  |
| 10               | Durian        | <i>Durio zibethinus</i>         | 6,0           | 3,0           | 11,5          | 5,0           | Penaung  |
| 11               | Durian        | <i>Durio zibethinus</i>         | 11,0          | 2,1           | 16,9          | 7,0           | Penaung  |
| 12               | Durian        | <i>Durio zibethinus</i>         | 4,2           | 1,6           | 5,1           | 2,5           | Penaung  |
| 13               | Cengkeh       | <i>Syzygium aromaticum</i>      | 12,0          | 1,2           | 22,3          | 15,0          | Penaung  |
| 14               | Durian        | <i>Durio zibethinus</i>         | 7,0           | 2,4           | 14,6          | 10,5          | Penaung  |
| 15               | Durian        | <i>Durio zibethinus</i>         | 6,0           | 5,5           | 8,9           | 13,0          | Penaung  |
| 16               | Saman         | <i>Samanea saman</i>            | 23,0          | 20,0          | 26,1          | 14,0          | Penaung  |
| 17               | Nangka        | <i>Artocarpus heterophyllus</i> | 7,0           | 4,0           | 11,8          | 4,9           | Penaung  |
| 18               | Durian        | <i>Durio zibethinus</i>         | 10,0          | 2,0           | 1,6           | 11,0          | Penaung  |
| <b>Jumlah</b>    |               |                                 | <b>235,70</b> | <b>103,10</b> | <b>266,88</b> | <b>121,20</b> |          |
| <b>Rata-rata</b> |               |                                 | <b>13,09</b>  | <b>5,73</b>   | <b>14,83</b>  | <b>6,73</b>   |          |

## Lampiran 7. Hasil Uji ANOVA Kopi Arabika

| <i>Descriptives</i> |       |          |             |                       |                   |                                         |                    |                |                |
|---------------------|-------|----------|-------------|-----------------------|-------------------|-----------------------------------------|--------------------|----------------|----------------|
|                     |       | <i>N</i> | <i>Mean</i> | <i>Std, Deviation</i> | <i>Std, Error</i> | <i>95% Confidence Interval for Mean</i> |                    | <i>Minimum</i> | <i>Maximum</i> |
|                     |       |          |             |                       |                   | <i>Lower Bound</i>                      | <i>Upper Bound</i> |                |                |
| Tinggi              | 1     | 36       | 1.9833      | 0.49019               | 0.08170           | 1.8175                                  | 2.1492             | 1.30           | 3.70           |
|                     | 2     | 27       | 2.4296      | 0.60116               | 0.11569           | 2.1918                                  | 2.6674             | 1.50           | 4.00           |
|                     | 3     | 13       | 2.5692      | 0.75430               | 0.20921           | 2.1134                                  | 3.0251             | 1.40           | 4.00           |
|                     | Total | 76       | 2.2421      | 0.62594               | 0.07180           | 2.0991                                  | 2.3851             | 1.30           | 4.00           |
| Tinggi_tajuk        | 1     | 36       | 1.3806      | 0.54396               | 0.09066           | 1.1965                                  | 1.5646             | 0.20           | 2.70           |
|                     | 2     | 27       | 1.9074      | 0.48590               | 0.09351           | 1.7152                                  | 2.0996             | 1.10           | 3.00           |
|                     | 3     | 13       | 1.4538      | 0.52697               | 0.14615           | 1.1354                                  | 1.7723             | 0.60           | 2.20           |
|                     | Total | 76       | 1.5803      | 0.56992               | 0.06537           | 1.4500                                  | 1.7105             | 0.20           | 3.00           |
| Diameter            | 1     | 36       | 3.4889      | 0.87726               | 0.14621           | 3.1921                                  | 3.7857             | 2.20           | 5.70           |
|                     | 2     | 27       | 4.9222      | 0.81634               | 0.15710           | 4.5993                                  | 5.2452             | 3.50           | 8.00           |
|                     | 3     | 13       | 3.9769      | 1.03855               | 0.28804           | 3.3493                                  | 4.6045             | 1.30           | 5.40           |
|                     | Total | 76       | 4.0816      | 1.08980               | 0.12501           | 3.8325                                  | 4.3306             | 1.30           | 8.00           |
| Lebar Tajuk         | 1     | 36       | 1.3472      | 0.39748               | 0.06625           | 1.2127                                  | 1.4817             | 0.80           | 2.50           |
|                     | 2     | 27       | 1.8333      | 0.40383               | 0.07772           | 1.6736                                  | 1.9931             | 1.10           | 3.10           |
|                     | 3     | 13       | 1.7231      | 0.60160               | 0.16685           | 1.3595                                  | 2.0866             | 0.70           | 2.40           |
|                     | Total | 76       | 1.5842      | 0.49073               | 0.05629           | 1.4721                                  | 1.6963             | 0.70           | 3.10           |
| Cabang              | 1     | 36       | 21.6944     | 7.93840               | 1.32307           | 19.0085                                 | 24.3804            | 4.00           | 37.00          |
|                     | 2     | 27       | 33.4074     | 13.01555              | 2.50484           | 28.2586                                 | 38.5562            | 5.00           | 56.00          |
|                     | 3     | 13       | 16.0000     | 10.18168              | 2.82389           | 9.8473                                  | 22.1527            | 5.00           | 38.00          |
|                     | Total | 76       | 24.8816     | 12.22453              | 1.40225           | 22.0882                                 | 27.6750            | 4.00           | 56.00          |

| <i>ANOVA</i>   |                       |                       |           |                    |          |             |
|----------------|-----------------------|-----------------------|-----------|--------------------|----------|-------------|
|                |                       | <i>Sum of Squares</i> | <i>df</i> | <i>Mean Square</i> | <i>F</i> | <i>Sig.</i> |
| Tinggi         | <i>Between Groups</i> | 4.751                 | 2         | 2.376              | 7.040    | 0.002       |
|                | <i>Within Groups</i>  | 24.634                | 73        | 0.337              |          |             |
|                | <i>Total</i>          | 29.385                | 75        |                    |          |             |
| Tinggi_tajuk   | <i>Between Groups</i> | 4.533                 | 2         | 2.267              | 8.345    | 0.001       |
|                | <i>Within Groups</i>  | 19.827                | 73        | 0.272              |          |             |
|                | <i>Total</i>          | 24.360                | 75        |                    |          |             |
| Diameter       | <i>Between Groups</i> | 31.869                | 2         | 15.934             | 20.334   | 0.000       |
|                | <i>Within Groups</i>  | 57.205                | 73        | 0.784              |          |             |
|                | <i>Total</i>          | 89.074                | 75        |                    |          |             |
| Diameter tajuk | <i>Between Groups</i> | 3.948                 | 2         | 1.974              | 10.211   | 0.000       |
|                | <i>Within Groups</i>  | 14.113                | 73        | 0.193              |          |             |
|                | <i>Total</i>          | 18.061                | 75        |                    |          |             |
| Cabang         | <i>Between Groups</i> | 3353.777              | 2         | 1676.888           | 15.586   | 0.000       |
|                | <i>Within Groups</i>  | 7854.157              | 73        | 107.591            |          |             |
|                | <i>Total</i>          | 11207.934             | 75        |                    |          |             |

Lampiran 8. Hasil Uji Lanjut DMRT Parameter pada Kopi Arabika (Tinggi, tinggi tajuk, cabang, diameter, diameter cabang)

| <b>Tinggi</b>                                                                                                                |    |                         |        |
|------------------------------------------------------------------------------------------------------------------------------|----|-------------------------|--------|
| Duncan <sup>a,b</sup>                                                                                                        |    |                         |        |
| PU                                                                                                                           | N  | Subset for alpha = 0.05 |        |
|                                                                                                                              |    | 1                       | 2      |
| 1                                                                                                                            | 36 | 1.9833                  |        |
| 2                                                                                                                            | 27 |                         | 2.4296 |
| 3                                                                                                                            | 13 |                         | 2.5692 |
| Sig,                                                                                                                         |    | 1.000                   | 0.437  |
| <i>Means for groups in homogeneous subsets are displayed,</i>                                                                |    |                         |        |
| <i>a, Uses Harmonic Mean Sample Size = 21,166,</i>                                                                           |    |                         |        |
| <i>b, The group sizes are unequal, The harmonic mean of the group sizes is used, Type I error levels are not guaranteed,</i> |    |                         |        |

| <b>Tinggi_tajuk</b>                                                                                                          |    |                         |        |
|------------------------------------------------------------------------------------------------------------------------------|----|-------------------------|--------|
| Duncan <sup>a,b</sup>                                                                                                        |    |                         |        |
| PU                                                                                                                           | N  | Subset for alpha = 0,05 |        |
|                                                                                                                              |    | 1                       | 2      |
| 1                                                                                                                            | 36 | 1.3806                  |        |
| 3                                                                                                                            | 13 | 1.4538                  |        |
| 2                                                                                                                            | 27 |                         | 1.9074 |
| Sig,                                                                                                                         |    | 0.649                   | 1.000  |
| <i>Means for groups in homogeneous subsets are displayed,</i>                                                                |    |                         |        |
| <i>a, Uses Harmonic Mean Sample Size = 21,166,</i>                                                                           |    |                         |        |
| <i>b, The group sizes are unequal, The harmonic mean of the group sizes is used, Type I error levels are not guaranteed,</i> |    |                         |        |

| <b>Cabang</b>                                                                                                                |    |                         |         |
|------------------------------------------------------------------------------------------------------------------------------|----|-------------------------|---------|
| Duncan <sup>a,b</sup>                                                                                                        |    |                         |         |
| PU                                                                                                                           | N  | Subset for alpha = 0,05 |         |
|                                                                                                                              |    | 1                       | 2       |
| 3                                                                                                                            | 13 | 16.0000                 |         |
| 1                                                                                                                            | 36 | 21.6944                 |         |
| 2                                                                                                                            | 27 |                         | 33.4074 |
| Sig,                                                                                                                         |    | 0.078                   | 1.000   |
| <i>Means for groups in homogeneous subsets are displayed,</i>                                                                |    |                         |         |
| <i>a, Uses Harmonic Mean Sample Size = 21,166,</i>                                                                           |    |                         |         |
| <i>b, The group sizes are unequal, The harmonic mean of the group sizes is used, Type I error levels are not guaranteed,</i> |    |                         |         |

| <b>Diameter</b>                                                                                                              |    |                         |        |
|------------------------------------------------------------------------------------------------------------------------------|----|-------------------------|--------|
| Duncan <sup>a,b</sup>                                                                                                        |    |                         |        |
| PU                                                                                                                           | N  | Subset for alpha = 0,05 |        |
|                                                                                                                              |    | 1                       | 2      |
| 1                                                                                                                            | 36 | 3.4889                  |        |
| 3                                                                                                                            | 13 | 3.9769                  |        |
| 2                                                                                                                            | 27 |                         | 4.9222 |
| Sig,                                                                                                                         |    | 0.077                   | 1.000  |
| <i>Means for groups in homogeneous subsets are displayed,</i>                                                                |    |                         |        |
| <i>a, Uses Harmonic Mean Sample Size = 21,166,</i>                                                                           |    |                         |        |
| <i>b, The group sizes are unequal, The harmonic mean of the group sizes is used, Type I error levels are not guaranteed,</i> |    |                         |        |

| <b>Diameter Tajuk</b>                                                                                                        |    |                         |        |
|------------------------------------------------------------------------------------------------------------------------------|----|-------------------------|--------|
| Duncan <sup>a,b</sup>                                                                                                        |    |                         |        |
| PU                                                                                                                           | N  | Subset for alpha = 0,05 |        |
|                                                                                                                              |    | 1                       | 2      |
| 1                                                                                                                            | 36 | 1.3472                  |        |
| 3                                                                                                                            | 13 |                         | 1.7231 |
| 2                                                                                                                            | 27 |                         | 1.8333 |
| Sig,                                                                                                                         |    | 1.000                   | 0.417  |
| <i>Means for groups in homogeneous subsets are displayed,</i>                                                                |    |                         |        |
| <i>a, Uses Harmonic Mean Sample Size = 21,166,</i>                                                                           |    |                         |        |
| <i>b, The group sizes are unequal, The harmonic mean of the group sizes is used, Type I error levels are not guaranteed,</i> |    |                         |        |

## Lampiran 9. Hasil Uji Anova pada Kopi Robusta

| Descriptives      |       |    |         |                   |            |                                     |                |         |         |
|-------------------|-------|----|---------|-------------------|------------|-------------------------------------|----------------|---------|---------|
|                   |       | N  | Mean    | Std.<br>Deviation | Std. Error | 95% Confidence Interval for<br>Mean |                | Minimum | Maximum |
|                   |       |    |         |                   |            | Lower Bound                         | Upper<br>Bound |         |         |
| Tinggi            | 1     | 3  | 1.8667  | 0.70238           | 0.40552    | 0.1219                              | 3.6115         | 1.20    | 2.60    |
|                   | 2     | 5  | 2.6000  | 1.18322           | 0.52915    | 1.1308                              | 4.0692         | 1.60    | 4.50    |
|                   | 3     | 23 | 2.6130  | 0.73812           | 0.15391    | 2.2939                              | 2.9322         | 1.50    | 4.00    |
|                   | Total | 31 | 2.5387  | 0.81800           | 0.14692    | 2.2387                              | 2.8388         | 1.20    | 4.50    |
| Tinggi_tajuk      | 1     | 3  | 0.6333  | 0.58595           | 0.33830    | -0.8222                             | 2.0889         | 0.20    | 1.30    |
|                   | 2     | 5  | 1.7600  | 1.09225           | 0.48847    | 0.4038                              | 3.1162         | 0.50    | 3.00    |
|                   | 3     | 23 | 1.5000  | 0.69609           | 0.14515    | 1.1990                              | 1.8010         | 0.20    | 2.90    |
|                   | Total | 31 | 1.4581  | 0.78857           | 0.14163    | 1.1688                              | 1.7473         | 0.20    | 3.00    |
| Diameter          | 1     | 3  | 4.7667  | 0.65064           | 0.37565    | 3.1504                              | 6.3829         | 4.10    | 5.40    |
|                   | 2     | 5  | 4.1800  | 2.11234           | 0.94467    | 1.5572                              | 6.8028         | 2.40    | 7.60    |
|                   | 3     | 23 | 4.6217  | 1.43367           | 0.29894    | 4.0018                              | 5.2417         | 1.90    | 7.30    |
|                   | Total | 31 | 4.5645  | 1.47027           | 0.26407    | 4.0252                              | 5.1038         | 1.90    | 7.60    |
| Diameter<br>Tajuk | 1     | 3  | 1.3333  | 0.80208           | 0.46308    | -0.6591                             | 3.3258         | 0.50    | 2.10    |
|                   | 2     | 5  | 2.1800  | 0.98843           | 0.44204    | 0.9527                              | 3.4073         | 1.00    | 3.30    |
|                   | 3     | 23 | 2.0391  | 0.75723           | 0.15789    | 1.7117                              | 2.3666         | 0.70    | 3.80    |
|                   | Total | 31 | 1.9935  | 0.80288           | 0.14420    | 1.6990                              | 2.2880         | 0.50    | 3.80    |
| Cabang            | 1     | 3  | 7.6667  | 5.50757           | 3.17980    | -6.0149                             | 21.3482        | 2.00    | 13.00   |
|                   | 2     | 5  | 27.8000 | 17.58408          | 7.86384    | 5.9665                              | 49.6335        | 4.00    | 52.00   |
|                   | 3     | 23 | 16.8261 | 8.47806           | 1.76780    | 13.1599                             | 20.4923        | 4.00    | 34.00   |
|                   | Total | 31 | 17.7097 | 11.11813          | 1.99688    | 13.6315                             | 21.7878        | 2.00    | 52.00   |

| ANOVA          |                       |                       |           |                    |          |             |
|----------------|-----------------------|-----------------------|-----------|--------------------|----------|-------------|
|                |                       | <i>Sum of Squares</i> | <i>df</i> | <i>Mean Square</i> | <i>F</i> | <i>Sig.</i> |
| Tinggi         | <i>Between Groups</i> | 1.501                 | 2         | 0.750              | 1.131    | 0.337       |
|                | <i>Within Groups</i>  | 18.573                | 28        | 0.663              |          |             |
|                | <i>Total</i>          | 20.074                | 30        |                    |          |             |
| Tinggi_tajuk   | <i>Between Groups</i> | 2.537                 | 2         | 1.268              | 2.203    | 0.129       |
|                | <i>Within Groups</i>  | 16.119                | 28        | 0.576              |          |             |
|                | <i>Total</i>          | 18.655                | 30        |                    |          |             |
| Diameter       | <i>Between Groups</i> | 0.937                 | 2         | 0.469              | 0.205    | 0.816       |
|                | <i>Within Groups</i>  | 63.914                | 28        | 2.283              |          |             |
|                | <i>Total</i>          | 64.851                | 30        |                    |          |             |
| Diameter Tajuk | <i>Between Groups</i> | 1.529                 | 2         | 0.765              | 1.202    | 0.316       |
|                | <i>Within Groups</i>  | 17.809                | 28        | 0.636              |          |             |
|                | <i>Total</i>          | 19.339                | 30        |                    |          |             |
| Cabang         | <i>Between Groups</i> | 829.616               | 2         | 414.808            | 4.035    | 0.029       |
|                | <i>Within Groups</i>  | 2878.771              | 28        | 102.813            |          |             |
|                | <i>Total</i>          | 3708.387              | 30        |                    |          |             |

## Lampiran 10. Hasil Uji Lanjut DMRT pada Parameter Cabang Kopi Robusta

| <b>Cabang</b>                                                                                                                |    |                                |         |
|------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------|---------|
| Duncan <sup>a,b</sup>                                                                                                        |    |                                |         |
| PU                                                                                                                           | N  | <i>Subset for alpha = 0,05</i> |         |
|                                                                                                                              |    | 1                              | 2       |
| 1                                                                                                                            | 3  | 7.6667                         |         |
| 3                                                                                                                            | 23 | 16.8261                        | 16.8261 |
| 2                                                                                                                            | 5  |                                | 27.8000 |
| <i>Sig,</i>                                                                                                                  |    | 0.156                          | 0.092   |
| <i>Means for groups in homogeneous subsets are displayed,</i>                                                                |    |                                |         |
| <i>a, Uses Harmonic Mean Sample Size = 5,201,</i>                                                                            |    |                                |         |
| <i>b, The group sizes are unequal, The harmonic mean of the group sizes is used, Type I error levels are not guaranteed,</i> |    |                                |         |

### Lampiran 11. Contoh Perhitungan Persentase Tutupan Tajuk

#### 1. Menghitung Total Luas Tajuk Tiap Jenis Pohon pada PU 1

Luas tajuk keseluruhan untuk masing-masing jenis diperoleh dengan mengalikan Jumlah pohon dengan Rerata Luas Tajuk:

- a. Sengon (*Falcataria moluccana*):

$$21 \text{ pohon} \times 12,32 \text{ m}^2 = 258,72 \text{ m}^2$$

- b. Nangka (*Artocarpus heterophyllus*):

$$3 \text{ pohon} \times 4,10 \text{ m}^2 = 12,30 \text{ m}^2$$

- c. Alpukat (*Persea americana*):

$$2 \text{ pohon} \times 3,83 \text{ m}^2 = 7,66 \text{ m}^2$$

- d. Waru (*Hibiscus tiliaceus L.*):

$$1 \text{ pohon} \times 3,14 \text{ m}^2 = 3,14 \text{ m}^2$$

- e. Saman (*Samanea saman*):

$$1 \text{ pohon} \times 70,85 \text{ m}^2 = 70,85 \text{ m}^2$$

#### 2. Menghitung Total Luas Tajuk Semua Pohon pada PU 1

Jumlahkan hasil perkalian luas tajuk dari seluruh jenis pohon di atas untuk mendapatkan total luas penutupan tajuk secara keseluruhan dalam petak ukur:

$$\text{Total Luas Tajuk} = 258,72 + 12,30 + 7,66 + 3,14 + 70,85 = 352,67 \text{ m}^2$$

#### 3. Menghitung Persentase Tutupan Tajuk pada PU 1

Setelah total luas tajuk seluruh pohon diketahui, masukkan ke dalam rumus perhitungan terhadap luas Petak Ukur (400 m<sup>2</sup>):

$$\text{Persentase Tutupan Tajuk} = \frac{352,67}{400} \times 100\% = 88,1675\% = 88,1\%$$

**Lampiran 12. Dokumentasi Penelitian**

Pengukuran keliling tanaman kopi



Pengukuran tinggi tanaman kopi



Pengukuran diameter tajuk tanaman kopi



Pemberian label nama tanaman



Pengukuran diameter pohon



Pengukuran tinggi pohon



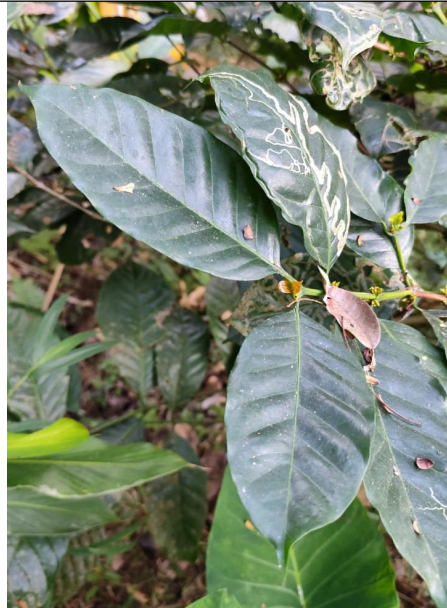
Foto bersama tim



Foto bersama pemilik lahan dan pengelola



Daun *Arabica linie S.*



Daun *Arabica kartika*



Daun *Arabica sigararutang*



Buah kopi *Robusta Bp 929*



PU 1. Sengon (*Falcataria moluccana*)



PU 1. Sengon (*Falcataria moluccana*)



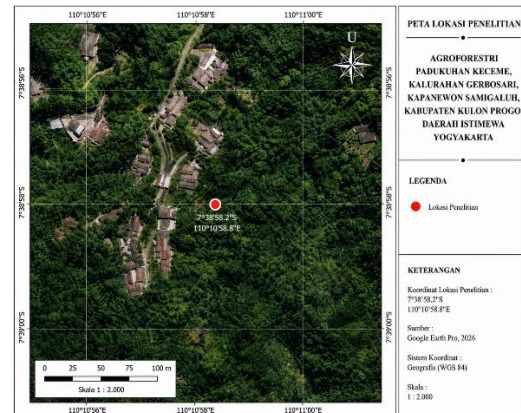
PU 1. Nangka  
(*Artocarpus heterophyllus*)



PU 1. Nangka  
(*Artocarpus heterophyllus*)



PU 1. Saman (*Samanea saman*)



PU 1. Peta lokasi



PU 1. Alpukat (*Persea americana*)



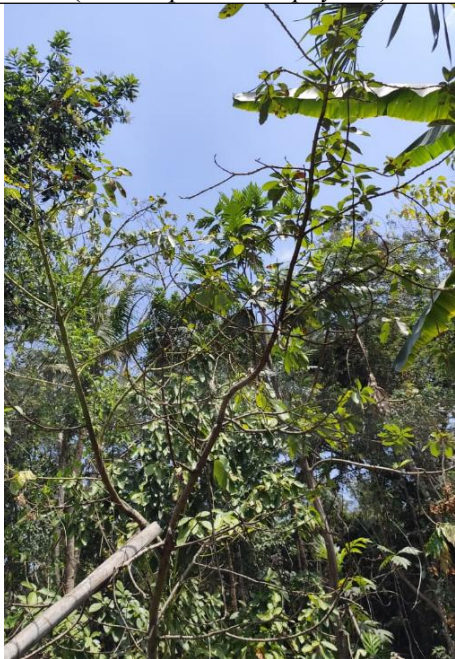
PU 1. Waru (*Hibiscus tiliaceus* L.)



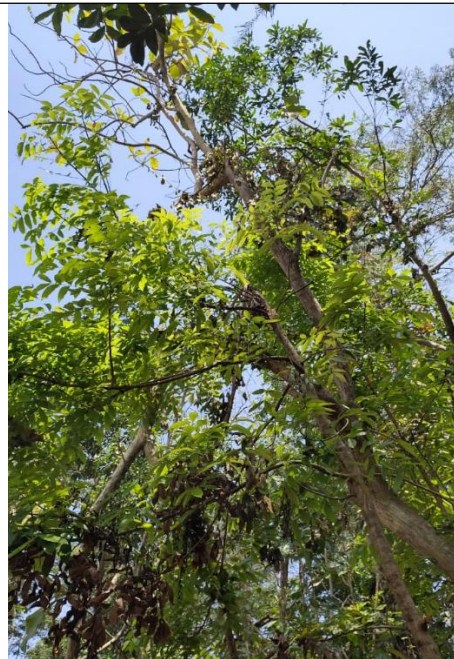
PU 2. Nangka  
(*Artocarpus heterophyllus*)



PU 2. Sengon (*Falcataria moluccana*)



PU 2. Alpukat (*Persea americana*)



PU 2. Mahoni (*Swietenia mahagoni*)



PU 2. Peta Lokasi

PU 3. Cengkeh (*Syzygium aromaticum*)PU 3. Sengon (*Falcataria moluccana*)PU 3. Mahoni (*Swietenia mahagoni*)



PU 3. Durian (*Durio zibethinus*)



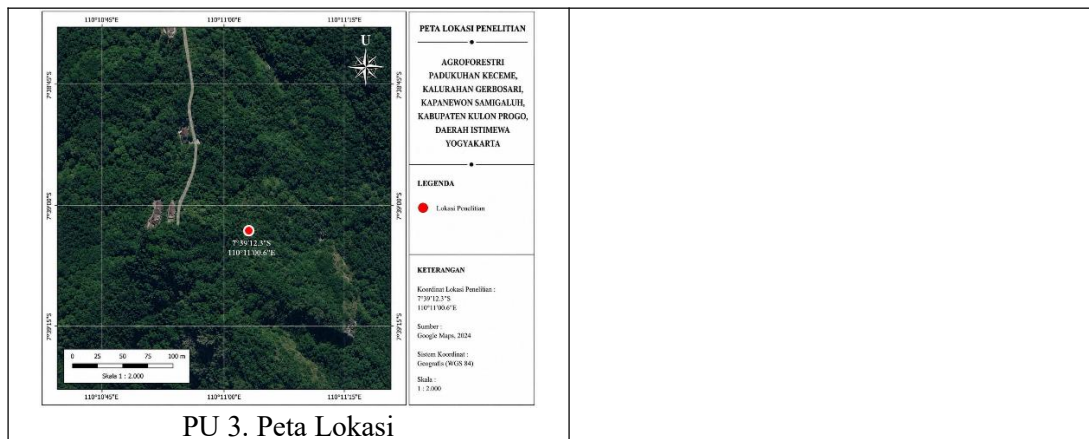
PU 3. Saman (*Samanea saman*)



PU 3. Nangka  
(*Artocarpus heterophyllus*)



PU 3. Kelapa (*Cocos nucifera* L.),



PU 3. Peta Lokasi