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# LAMPIRAN

Lampiran 1. Data pengamatan karakteristik agronomi kelapa sawit.

| sampel | Tinggi tanaman | Diameter batang | Diameter tajuk | Lebar petiole | Panjang pelepah (cm) | Jumlah tandan/ tanaman | Jumlah bunga jantan | Jumlah bunga betina |
|--------|----------------|-----------------|----------------|---------------|----------------------|------------------------|---------------------|---------------------|
| 1      | 4              | 0,80            | 5,3            | 21            | 6,2                  | 8                      | 1                   | 1                   |
| 2      | 3,8            | 0,77            | 5,23           | 23            | 6,13                 | 10                     | 0                   | 0                   |
| 3      | 3,7            | 0,86            | 5,2            | 21            | 6,1                  | 5                      | 2                   | 1                   |
| 4      | 3,63           | 0,84            | 5,42           | 24            | 6,28                 | 6                      | 5                   | 0                   |
| 5      | 3,77           | 0,78            | 5,31           | 21            | 6,22                 | 6                      | 3                   | 1                   |
| 6      | 4,1            | 0,78            | 5,41           | 22            | 6,24                 | 6                      | 1                   | 0                   |
| 7      | 3,92           | 0,78            | 5,32           | 23            | 6,22                 | 3                      | 0                   | 0                   |
| 8      | 3,82           | 0,77            | 5,25           | 21            | 6,2                  | 5                      | 0                   | 1                   |
| 9      | 3,91           | 0,77            | 5,3            | 22            | 6,21                 | 9                      | 1                   | 0                   |
| 10     | 4,7            | 0,78            | 5,38           | 22            | 6,28                 | 5                      | 0                   | 1                   |
| 11     | 4,1            | 0,77            | 5,27           | 21            | 6,21                 | 7                      | 0                   | 0                   |
| 12     | 4,2            | 0,78            | 5,23           | 21            | 6,14                 | 6                      | 1                   | 1                   |
| 13     | 4,3            | 0,77            | 5,24           | 22            | 6,15                 | 6                      | 0                   | 1                   |
| 14     | 3,9            | 0,78            | 5,21           | 21            | 6,13                 | 8                      | 0                   | 2                   |
| 15     | 4,1            | 0,77            | 5,23           | 22            | 6,15                 | 6                      | 1                   | 1                   |
| 16     | 3,98           | 0,78            | 5,21           | 23            | 6,13                 | 6                      | 0                   | 0                   |
| 17     | 4              | 0,78            | 5,18           | 22            | 6,11                 | 7                      | 0                   | 0                   |
| 18     | 4,1            | 0,78            | 5,21           | 23            | 6,14                 | 7                      | 0                   | 1                   |
| 19     | 4,7            | 0,77            | 5,25           | 23            | 6,2                  | 6                      | 0                   | 0                   |
| 20     | 3,8            | 0,72            | 5,24           | 22            | 6,21                 | 8                      | 1                   | 1                   |
| 21     | 4,2            | 0,77            | 5,3            | 22            | 6,21                 | 5                      | 0                   | 0                   |
| 22     | 4,1            | 0,77            | 5,31           | 22            | 6,22                 | 7                      | 2                   | 0                   |
| 23     | 4,13           | 0,76            | 5,27           | 21            | 6,19                 | 9                      | 0                   | 1                   |
| 24     | 3,94           | 0,75            | 5,25           | 23            | 6,18                 | 6                      | 0                   | 0                   |
| 25     | 4,12           | 0,78            | 5,42           | 22            | 6,24                 | 4                      | 0                   | 0                   |
| 26     | 3,78           | 0,73            | 5,26           | 22            | 6,21                 | 6                      | 1                   | 0                   |
| 27     | 4,16           | 0,76            | 5,3            | 21            | 6,24                 | 5                      | 0                   | 1                   |
| 28     | 4,21           | 0,77            | 5,35           | 23            | 6,27                 | 7                      | 0                   | 1                   |
| 29     | 3,55           | 0,80            | 5,4            | 22            | 6,25                 | 5                      | 0                   | 0                   |
| 30     | 4,5            | 0,84            | 5,1            | 21            | 6,8                  | 8                      | 0                   | 0                   |
| 31     | 3,63           | 0,62            | 3,7            | 18            | 5,67                 | 7                      | 1                   | 1                   |
| 32     | 3,7            | 0,80            | 4,5            | 22            | 6,1                  | 9                      | 0                   | 1                   |
| 33     | 2,5            | 0,74            | 3,8            | 13            | 5,65                 | 4                      | 1                   | 0                   |
| 34     | 3,73           | 0,74            | 5,1            | 20            | 6,9                  | 6                      | 1                   | 0                   |

|    |      |      |      |       |      |   |   |   |
|----|------|------|------|-------|------|---|---|---|
| 35 | 3,85 | 0,77 | 4,6  | 21    | 6,5  | 7 | 0 | 1 |
| 36 | 3,9  | 0,75 | 4,8  | 22    | 6,4  | 5 | 1 | 2 |
| 37 | 4,1  | 0,77 | 5,11 | 22    | 6,9  | 8 | 2 | 0 |
| 38 | 3,65 | 0,76 | 3,93 | 19    | 5,72 | 6 | 1 | 0 |
| 39 | 4,17 | 0,76 | 5,1  | 20    | 6,7  | 5 | 0 | 2 |
| 40 | 3,83 | 0,74 | 4,93 | 21    | 6,1  | 7 | 0 | 0 |
| 41 | 3,71 | 0,78 | 4,98 | 20    | 6,4  | 8 | 0 | 0 |
| 42 | 4,3  | 0,75 | 5,5  | 20    | 6,7  | 7 | 0 | 0 |
| 43 | 3,65 | 0,76 | 5,2  | 22    | 6,18 | 9 | 2 | 1 |
| 44 | 3,93 | 0,77 | 5,25 | 21    | 6,2  | 6 | 1 | 0 |
| 45 | 4,11 | 0,76 | 5,26 | 23    | 6,22 | 7 | 1 | 0 |
| 46 | 4,7  | 0,76 | 4,95 | 21    | 6,3  | 5 | 0 | 2 |
| 47 | 4,11 | 0,77 | 5,1  | 22,00 | 6,2  | 6 | 0 | 1 |
| 48 | 4,6  | 0,76 | 5,12 | 22,00 | 6,22 | 7 | 1 | 0 |
| 49 | 4,15 | 0,77 | 5,7  | 22,00 | 6,18 | 6 | 1 | 0 |
| 50 | 3,93 | 0,75 | 5,5  | 21    | 6,16 | 6 | 2 | 1 |
| 51 | 4,17 | 0,76 | 5,22 | 22    | 6,23 | 8 | 0 | 1 |
| 52 | 3,8  | 0,77 | 5,2  | 21    | 6,13 | 5 | 0 | 0 |
| 53 | 4,16 | 0,77 | 5,1  | 22    | 6,11 | 6 | 1 | 0 |
| 54 | 4,7  | 0,77 | 5,3  | 20    | 6,15 | 7 | 1 | 1 |
| 55 | 3,85 | 0,76 | 4,83 | 21    | 6,5  | 9 | 0 | 0 |
| 56 | 4    | 0,77 | 5,3  | 23    | 6,25 | 8 | 0 | 0 |
| 57 | 4,19 | 0,75 | 5,45 | 22    | 6,27 | 6 | 0 | 1 |
| 58 | 4,13 | 0,75 | 5,31 | 22    | 6,22 | 5 | 0 | 1 |
| 59 | 3,95 | 0,74 | 5,7  | 22    | 6,5  | 7 | 1 | 0 |
| 60 | 4,22 | 0,74 | 5,26 | 21    | 6,2  | 6 | 0 | 0 |
| 61 | 3,91 | 0,77 | 5,15 | 24    | 6,12 | 6 | 0 | 1 |
| 62 | 4,5  | 0,76 | 5,35 | 22    | 6,24 | 8 | 0 | 0 |
| 63 | 4,7  | 0,76 | 5,31 | 23    | 6,21 | 9 | 1 | 0 |
| 64 | 4,16 | 0,76 | 5,25 | 21    | 6,23 | 8 | 0 | 1 |
| 65 | 3,99 | 0,77 | 5,12 | 22    | 6,19 | 7 | 0 | 0 |
| 66 | 4,6  | 0,75 | 5,27 | 22    | 6,22 | 5 | 3 | 0 |
| 67 | 4,25 | 0,77 | 5,18 | 21    | 6,17 | 6 | 0 | 1 |
| 68 | 4,7  | 0,77 | 4,97 | 23    | 6,1  | 7 | 0 | 0 |
| 69 | 3,88 | 0,78 | 4,93 | 22    | 6,9  | 4 | 2 | 0 |
| 70 | 3,97 | 0,77 | 5,7  | 21    | 6,11 | 6 | 0 | 1 |
| 71 | 4,6  | 0,75 | 5,27 | 23    | 6,19 | 6 | 0 | 1 |
| 72 | 4,12 | 0,76 | 5,4  | 21    | 6,25 | 5 | 1 | 0 |
| 73 | 4,18 | 0,77 | 5,45 | 20    | 6,27 | 4 | 2 | 1 |

|        |      |      |      |       |      |      |      |      |
|--------|------|------|------|-------|------|------|------|------|
| 74     | 4,21 | 0,77 | 5,48 | 22    | 6,28 | 7    | 0    | 0    |
| 75     | 3,9  | 0,89 | 5,3  | 21    | 6,24 | 6    | 0    | 0    |
| 76     | 4,14 | 0,77 | 5,32 | 22    | 6,24 | 9    | 0    | 1    |
| 77     | 3,7  | 0,75 | 5,5  | 23    | 6,8  | 8    | 0    | 0    |
| 78     | 4,1  | 0,88 | 5,16 | 21    | 6,15 | 6    | 0    | 2    |
| 79     | 3,9  | 0,95 | 5,1  | 22    | 6,12 | 5    | 2    | 0    |
| 80     | 4,12 | 0,77 | 5,28 | 22    | 6,21 | 7    | 0    | 1    |
| 81     | 4,15 | 0,77 | 5,27 | 22    | 6,2  | 8    | 0    | 0    |
| 82     | 4,2  | 0,77 | 5,36 | 23    | 6,22 | 5    | 1    | 1    |
| 83     | 4,16 | 0,78 | 5,4  | 21    | 6,26 | 6    | 0    | 1    |
| 84     | 4,22 | 0,76 | 5,38 | 22    | 6,24 | 7    | 1    | 0    |
| rerata | 4,06 | 0,77 | 5,19 | 21,58 | 6,25 | 6,49 | 0,60 | 0,51 |

Lampiran 2. Data curah hujan Hujan PT. Bakrie Sumatra Plantations tahun 2013-2020

| Bulan        | 2013      |             | 2014      |             | 2015       |             | 2016      |             | 2017      |             | 2018      |             | 2019      |             | 2020      |             |
|--------------|-----------|-------------|-----------|-------------|------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
|              | HH        | CH          | HH        | CH          | HH         | CH          | HH        | CH          | HH        | CH          | HH        | CH          | HH        | CH          | HH        | CH          |
| Jan          | 10        | 160         | 4         | 33          | 8          | 54          | 4         | 35          | 11        | 109         | 13        | 148         | 5         | 127         | 4         | 119         |
| Feb          | 5         | 88          | 2         | 85          | 3          | 50          | 9         | 132         | 6         | 109         | 4         | 49          | 1         | 35          | 2         | 37          |
| Mar          | 2         | 35          | 2         | 65          | 6          | 78          | 3         | 53          | 8         | 131         | 2         | 7           | 3         | 128         | 3         | 85          |
| Apr          | 6         | 87          | 3         | 50          | 11         | 51          | 3         | 27          | 1         | 6           | 7         | 41          | 4         | 142         | 9         | 125         |
| May          | 5         | 97          | 4         | 99          | 8          | 45          | 5         | 145         | 11        | 196         | 10        | 189         | 4         | 67          | 12        | 467         |
| June         | 5         | 53          | 3         | 77          | 6          | 106         | 7         | 145         | 1         | 9           | 5         | 66          | 4         | 78          | 8         | 312         |
| July         | 4         | 104         | 3         | 75          | 11         | 149         | 8         | 126         | 4         | 43          | 6         | 111         | 6         | 226         | 10        | 176         |
| Agst         | 7         | 79          | 10        | 158         | 11         | 244         | 8         | 125         | 11        | 215         | 5         | 131         | 6         | 112         | 8         | 168         |
| Sept         | 8         | 154         | 7         | 160         | 8          | 110         | 12        | 148         | 14        | 321         | 12        | 317         | 10        | 184         | 6         | 169         |
| Oct          | 9         | 120         | 7         | 129         | 10         | 146         | 13        | 204         | 10        | 252         | 13        | 254         | 18        | 386         | 9         | 59          |
| Nov          | 12        | 206         | 15        | 246         | 17         | 480         | 7         | 92          | 11        | 181         | 6         | 153         | 5         | 71          | 16        | 340         |
| Dec          | 5         | 141         | 19        | 258         | 6          | 31          | 14        | 208         | 5         | 119         | 5         | 132         | 3         | 83          | 5         | 157         |
| <b>Total</b> | <b>78</b> | <b>1324</b> | <b>79</b> | <b>1435</b> | <b>105</b> | <b>1544</b> | <b>93</b> | <b>1440</b> | <b>93</b> | <b>1691</b> | <b>88</b> | <b>1598</b> | <b>69</b> | <b>1639</b> | <b>92</b> | <b>2214</b> |
| rerata       | 6,50      | 110,33      | 6,58      | 119,58      | 8,75       | 128,67      | 7,75      | 120,00      | 7,75      | 140,92      | 7,33      | 133,17      | 5,75      | 136,58      | 7,67      | 184,50      |
| B. Basah     | 6         |             | 5         |             | 6          |             | 8         |             | 9         |             | 8         |             | 7         |             | 9         |             |
| B. Kering    | 2         |             | 2         |             | 5          |             | 3         |             | 3         |             | 2         |             | 1         |             | 2         |             |
| klasifikasi  | nilai Q   | tipe        | nilai Q   | Tipe        | nilai Q    | tipe        | nilai Q   | tipe        | nilai Q   | tipe        | nilai Q   | tipe        | nilai Q   | tipe        | nilai Q   | tipe        |
|              | 0,33      | B           | 0,40      | C           | 0,83       | C           | 0,38      | C           | 0,33      | B           | 0,25      | C           | 0,143     | C           | 0,22      | B           |

Ket : HH : hari hujan

CH : Curah hujan (mm)

Lampiran 3. Data pemupukan PT. Bakrie Sumatra Plantatios tahun 2013-2020

| bulan     | 2013                      |       |        |       |       | 2014                      |      |       |  |  |        |
|-----------|---------------------------|-------|--------|-------|-------|---------------------------|------|-------|--|--|--------|
|           | ACTUAL APLIKASI BULAN INI |       |        |       |       | ACTUAL APLIKASI BULAN INI |      |       |  |  |        |
|           | NPK<br>(12:12:17:2)       | Urea  | MOP    | Kies  | Total | UREA                      | MOP  | KIES  |  |  | Total  |
| Januari   |                           |       |        |       | 0     | 1551                      | 1582 | 0     |  |  | 3133   |
| Februari  |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| Maret     |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| April     |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| Mei       |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| Juni      | 900                       | 1200  | 1200   | 600   | 3900  | 2200                      | 1500 | 18370 |  |  | 22070  |
| Juli      |                           |       |        |       | 0     | 15320                     |      |       |  |  | 15320  |
| Agustus   |                           |       |        |       | 0     | 56329                     |      |       |  |  | 56329  |
| September |                           |       |        |       | 0     | 48423                     |      |       |  |  | 48423  |
| Oktober   |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| November  |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| Desember  | 7.510                     | 9.264 | 12.352 | 6.176 | 35302 |                           |      | 5637  |  |  | 5637   |
| TOTAL     | 8410                      | 10464 | 13552  | 6776  | 39202 | 123823                    | 3082 | 24007 |  |  | 150912 |
| bulan     | 2015                      |       |        |       |       | 2016                      |      |       |  |  |        |
|           | ACTUAL APLIKASI BULAN INI |       |        |       |       | ACTUAL APLIKASI BULAN INI |      |       |  |  |        |
|           | UREA                      | TSP   |        |       | Total | RP                        | MOP  | NPK   |  |  | Total  |
| Januari   |                           |       |        |       | 0     |                           |      | 236,9 |  |  | 236,9  |
| Februari  |                           |       |        |       | 0     |                           |      | 107,6 |  |  | 107,6  |
| Maret     |                           |       |        |       | 0     |                           |      |       |  |  | 0      |
| April     |                           |       |        |       | 0     |                           |      |       |  |  | 0      |

|           |                                  |           |            |             |              |                                  |           |            |             |               |              |
|-----------|----------------------------------|-----------|------------|-------------|--------------|----------------------------------|-----------|------------|-------------|---------------|--------------|
| Mei       |                                  |           |            |             | 0            |                                  |           |            |             |               | 0            |
| Juni      | 10                               |           |            |             | 10           | 22749                            |           | 0          |             |               | 22749        |
| Juli      |                                  |           |            |             | 0            | 1402                             | 15585     | 0          |             |               | 16987        |
| Agustus   | 6800                             |           |            |             | 6800         | 6331                             | 19592     | 0          |             |               | 25923        |
| September |                                  |           |            |             | 0            | 23446                            |           | 0          |             |               | 23446        |
| Oktober   |                                  |           |            |             | 0            | 50646                            | 36485     | 0          |             |               | 87131        |
| November  |                                  |           |            |             | 0            | 28302                            | 0         | 0          |             |               | 28302        |
| Desember  | 0                                | 96,5      |            |             | 96,5         | 0                                | 9881      | 0          |             |               | 9881         |
| TOTAL     | 6810                             | 96,5      |            |             | 6906,5       | 132876                           | 81543     | 344,5      |             |               | 214763,5     |
| bulan     | <b>2017</b>                      |           |            |             |              | <b>2018</b>                      |           |            |             |               |              |
|           | <b>ACTUAL APLIKASI BULAN INI</b> |           |            |             |              | <b>ACTUAL APLIKASI BULAN INI</b> |           |            |             |               |              |
|           | <b>UREA</b>                      | <b>RP</b> | <b>MOP</b> | <b>KIES</b> | <b>Total</b> | <b>UREA</b>                      | <b>RP</b> | <b>MOP</b> | <b>KIES</b> | <b>BORATE</b> | <b>Total</b> |
| Januari   |                                  |           | 34341      |             | 34341        | 33931                            |           | 170471     | 28791       |               | 233193       |
| Februari  |                                  |           | 40678      |             | 40678        | 36221                            | 21437     | 13246      | 10994       |               | 81898        |
| Maret     |                                  |           |            |             | 0            | 2112                             | 6313      | 6335       | 0           |               | 14760        |
| April     |                                  |           |            |             | 0            | 6521                             |           | 9782       | 3261        |               | 19564        |
| Mei       |                                  |           |            | 51367       | 51367        | 9581                             |           | 9581       | 4790        |               | 23952        |
| Juni      |                                  |           |            | 27901       | 27901        |                                  |           |            |             |               | 0            |
| Juli      |                                  |           |            |             | 0            |                                  | 3536      |            |             |               | 3536         |
| Agustus   |                                  |           |            |             | 0            | 5171                             |           |            | 19734       |               | 24905        |
| September |                                  |           |            |             | 0            | 81225                            | 16999     | 46288      |             |               | 144512       |
| Oktober   | 27360                            | 4595      |            |             | 31955        | 89295                            | 9886      | 30812      | 56376       |               | 186369       |
| November  | 116011                           | 73796     |            | 28478       | 218285       | 81005                            | 0         | 59804      | 100753      |               | 241562       |
| Desember  | 93890                            | 24608     | 34786      | 109204      | 262488       | 37279                            | 78586     | 74570      | 67195       | 835           | 258465       |

|           |                           |        |        |        |        |                           |        |        |        |     |         |
|-----------|---------------------------|--------|--------|--------|--------|---------------------------|--------|--------|--------|-----|---------|
| TOTAL     | 237261                    | 102999 | 109805 | 216950 | 667015 | 382341                    | 136757 | 420889 | 291894 | 835 | 1232716 |
| bulan     | <b>2019</b>               |        |        |        |        | <b>2020</b>               |        |        |        |     |         |
|           | ACTUAL APLIKASI BULAN INI |        |        |        |        | ACTUAL APLIKASI BULAN INI |        |        |        |     |         |
|           | UREA                      | RP     | MOP    | KIES   | Total  | ZA                        | Urea   | RP     | MOP    |     | Total   |
| Januari   | 2263                      | 32794  | 22746  | 81369  | 139172 | 139172                    |        |        |        |     | 0       |
| Februari  |                           |        |        |        | 0      |                           |        |        |        |     | 0       |
| Maret     | 15838                     |        | 4174   | 1968   | 21980  | 21980                     |        |        |        |     | 0       |
| April     |                           |        |        |        | 0      |                           | 2600   | 1512   |        |     | 4112    |
| Mei       |                           |        | 44955  |        | 44955  | 44955                     |        |        |        |     | 0       |
| Juni      | 27887                     | 2184   | 9724   |        | 39795  | 39795                     |        |        |        |     | 0       |
| Juli      | 8662                      | 0      | 9338   | 32362  | 50362  | 50362                     |        |        |        |     | 0       |
| Agustus   |                           |        |        |        | 0      |                           |        |        |        |     | 0       |
| September |                           |        |        |        | 0      |                           |        |        |        |     | 0       |
| Oktober   |                           |        |        |        | 0      |                           | 4250   | 4950   | 5100   |     | 14300   |
| November  |                           | 13813  | 149660 |        | 163473 | 163473                    |        |        |        |     | 0       |
| Desember  | 87247                     | 94364  | 111767 |        | 293378 | 293378                    |        |        |        |     | 0       |
| TOTAL     | 141897                    | 143155 | 352364 | 115699 | 753115 | 753115                    | 6850   | 6462   | 5100   |     | 18412   |

Rekap total pemupukan tahun 2013-2020

| bulan     | Tahun |        |        |          |        |         |        |       |
|-----------|-------|--------|--------|----------|--------|---------|--------|-------|
|           | 2013  | 2014   | 2015   | 2016     | 2017   | 2018    | 2019   | 2020  |
| Januari   | 0     | 3133   | 0      | 236,9    | 34341  | 233193  | 139172 | 0     |
| Februari  | 0     | 0      | 0      | 107,6    | 40678  | 81898   | 0      | 0     |
| Maret     | 0     | 0      | 0      | 0        | 0      | 14760   | 21980  | 0     |
| April     | 0     | 0      | 0      | 0        | 0      | 19564   | 0      | 4112  |
| Mei       | 0     | 0      | 0      | 0        | 51367  | 23952   | 44955  | 0     |
| Juni      | 3900  | 22070  | 10     | 22749    | 27901  | 0       | 39795  | 0     |
| Juli      | 0     | 15320  | 0      | 16987    | 0      | 3536    | 50362  | 0     |
| Agustus   | 0     | 56329  | 6800   | 25923    | 0      | 24905   | 0      | 0     |
| September | 0     | 48423  | 0      | 23446    | 0      | 144512  | 0      | 0     |
| Oktober   | 0     | 0      | 0      | 87131    | 31955  | 186369  | 0      | 14300 |
| November  | 0     | 0      | 0      | 28302    | 218285 | 241562  | 163473 | 0     |
| Desember  | 35302 | 5637   | 96,5   | 9881     | 262488 | 258465  | 293378 | 0     |
| TOTAL     | 39202 | 150912 | 6906,5 | 214763,5 | 667015 | 1232716 | 753115 | 18412 |

Lampiran 4. Data produksi TBS kelapa sawit tahun 2013-2020

a. Produksi kelapa sawit (kg)

| <b>Bulan</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| January      | 706.840     | 815.080     | 638.470     | 669.390     | 835.780     | 884.670     | 819.470     | 743.220     |
| February     | 596.540     | 304.030     | 613.970     | 616.050     | 825.330     | 623.060     | 732.250     | 646.440     |
| March        | 567.430     | 685.650     | 639.680     | 783.660     | 837.840     | 737.920     | 724.870     | 704.590     |
| April        | 678.650     | 708.990     | 611.800     | 808.710     | 839.710     | 817.110     | 729.440     | 758.730     |
| May          | 587.940     | 733.390     | 653.440     | 890.030     | 897.950     | 879.690     | 960.370     | 747.900     |
| June         | 658.790     | 703.170     | 703.750     | 869.980     | 824.030     | 896.860     | 867.360     | 1.074.650   |
| July         | 727.810     | 649.830     | 790.960     | 886.450     | 1.090.200   | 1.086.930   | 1.195.840   | 1.241.530   |
| August       | 820.300     | 661.570     | 870.590     | 896.580     | 1.033.550   | 1.153.620   | 1.263.210   | 1.255.780   |
| September    | 754.200     | 463.310     | 800.280     | 924.710     | 926.150     | 1.164.280   | 1.108.820   | 1.101.040   |
| October      | 929.340     | 612.300     | 761.300     | 905.210     | 860.340     | 1.049.280   | 1.030.130   | 960.690     |
| November     | 864.150     | 768.090     | 634.240     | 856.970     | 945.810     | 940.040     | 818.730     | 915.060     |
| December     | 798.520     | 674.660     | 614.030     | 853.150     | 840.830     | 978.490     | 754.600     | 780.460     |
| total        | 8.690.510   | 7.780.070   | 8.332.510   | 9.960.890   | 10.757.520  | 11.211.950  | 11.005.090  | 10.930.090  |

b. Produksi jumlah janjang TBS kelapa sawit (jg)

| bulan | 2013           | 2014           | 2015           | 2016           | 2017           | 2018           | 2019           | 2020           |
|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Jan   | 55.471         | 74.172         | 63.927         | 57.237         | 66.529         | 76.387         | 74.225         | 64.805         |
| Feb   | 56.287         | 34.177         | 58.709         | 57.522         | 62.199         | 58.171         | 64.224         | 54.194         |
| Mar   | 53.848         | 61.970         | 62.909         | 69.924         | 62.536         | 68.132         | 70.138         | 60.579         |
| Apr   | 68.653         | 57.701         | 58.750         | 70.386         | 66.272         | 77.947         | 66.734         | 63.969         |
| May   | 58.007         | 63.703         | 66.864         | 78.859         | 71.632         | 75.213         | 92.412         | 66.645         |
| June  | 62.592         | 59.815         | 67.186         | 74.237         | 65.594         | 78.028         | 75.693         | 91.738         |
| July  | 66.159         | 62.496         | 75.535         | 72.441         | 83.875         | 93.453         | 102.741        | 101.266        |
| Agst  | 66.832         | 67.477         | 76.456         | 71.236         | 80.866         | 95.770         | 101.022        | 96.433         |
| Sept  | 60.847         | 52.719         | 72.730         | 70.880         | 74.379         | 99.309         | 89.489         | 86.029         |
| Oct   | 75.215         | 58.753         | 68.141         | 68.108         | 69.548         | 94.290         | 94.005         | 82.356         |
| Nov   | 68.748         | 68.052         | 51.232         | 65.165         | 77.801         | 83.238         | 73.548         | 79.430         |
| Dec   | 68.379         | 66.375         | 51.165         | 65.953         | 73.797         | 87.713         | 65.107         | 69.329         |
| Total | <b>761.038</b> | <b>727.410</b> | <b>773.604</b> | <b>821.948</b> | <b>855.028</b> | <b>987.651</b> | <b>966.338</b> | <b>916.773</b> |

c. BJR TBS kelapa sawit

| <b>Bulan</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Jan          | 12,7        | 11,0        | 10,0        | 11,7        | 12,6        | 11,6        | 11,0        | 11,5        |
| Feb          | 10,6        | 8,9         | 10,5        | 10,7        | 13,3        | 10,7        | 11,4        | 11,9        |
| Mar          | 10,5        | 11,1        | 10,2        | 11,2        | 13,4        | 10,8        | 10,3        | 11,6        |
| Apr          | 9,9         | 12,3        | 10,4        | 11,5        | 12,7        | 10,5        | 10,9        | 11,9        |
| May          | 10,1        | 11,5        | 9,8         | 11,3        | 12,5        | 11,7        | 10,4        | 11,2        |
| June         | 10,5        | 11,8        | 10,5        | 11,7        | 12,6        | 11,5        | 11,5        | 11,7        |
| July         | 11,0        | 10,4        | 10,5        | 12,2        | 13,0        | 11,6        | 11,6        | 12,3        |
| Agst         | 12,3        | 9,8         | 11,4        | 12,6        | 12,8        | 12,0        | 12,5        | 13,0        |
| Sept         | 12,4        | 8,8         | 11,0        | 13,0        | 12,5        | 11,7        | 12,4        | 12,8        |
| Oct          | 12,4        | 10,4        | 11,2        | 13,3        | 12,4        | 11,1        | 11,0        | 11,7        |
| Nov          | 12,6        | 11,3        | 12,4        | 13,2        | 12,2        | 11,3        | 11,1        | 11,5        |
| Dec          | 11,7        | 10,2        | 12,0        | 12,9        | 11,4        | 11,2        | 11,6        | 11,3        |
| rata-rata    | 11,4        | 10,7        | 10,8        | 12,1        | 12,6        | 11,4        | 11,4        | 11,9        |

Lampiran.5 Hasil analisis Lag 0

**Model Summary**

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .889 <sup>a</sup> | .790     | .706              | 742.23887                  |

a. Predictors: (Constant), pemupukan\_x2, curah\_hujan\_x1

**ANOVA<sup>b</sup>**

| Model |            | Sum of Squares | Df | Mean Square | F     | Sig.              |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1     | Regression | 1.037E7        | 2  | 5183338.727 | 9.409 | .020 <sup>a</sup> |
|       | Residual   | 2754592.713    | 5  | 550918.543  |       |                   |
|       | Total      | 1.312E7        | 7  |             |       |                   |

a. Predictors: (Constant), pemupukan\_x2, curah\_hujan\_x1

b. Dependent Variable: produksi\_y

**Coefficients<sup>a</sup>**

| Model |                | Unstandardized Coefficients |            | Standardized Coefficients | t     | Sig. |
|-------|----------------|-----------------------------|------------|---------------------------|-------|------|
|       |                | B                           | Std. Error | Beta                      |       |      |
| 1     | (Constant)     | 4297.413                    | 1699.880   |                           | 2.528 | .053 |
|       | curah_hujan_x1 | 2.948                       | 1.031      | .586                      | 2.859 | .035 |
|       | pemupukan_x2   | .002                        | .001       | .672                      | 3.277 | .022 |

a. Dependent Variable: produksi\_y

Lampiran.6 Hasil analisis lag 1

**Model Summary**

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .897 <sup>a</sup> | .805     | .708              | 756.70634                  |

a. Predictors: (Constant), pemupukan\_x2, curah\_hujan\_x1

**ANOVA<sup>b</sup>**

| Model |            | Sum of Squares | Df | Mean Square | F     | Sig.              |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1     | Regression | 9456752.895    | 2  | 4728376.447 | 8.258 | .038 <sup>a</sup> |
|       | Residual   | 2290417.933    | 4  | 572604.483  |       |                   |
|       | Total      | 1.175E7        | 6  |             |       |                   |

a. Predictors: (Constant), pemupukan\_x2, curah\_hujan\_x1

b. Dependent Variable: produksi\_y

**Coefficients<sup>a</sup>**

| Model |                | Unstandardized Coefficients |            | Standardized Coefficients | t     | Sig. |
|-------|----------------|-----------------------------|------------|---------------------------|-------|------|
|       |                | B                           | Std. Error | Beta                      |       |      |
| 1     | (Constant)     | 6427.509                    | 2071.843   |                           | 3.102 | .036 |
|       | curah_hujan_x1 | 1.367                       | 1.329      | .260                      | 1.029 | .362 |
|       | pemupukan_x2   | .002                        | .001       | .742                      | 2.939 | .042 |

a. Dependent Variable: produksi\_y

Lampiran. 7 Hasil analisis lag 2

**Model Summary**

| Model | R                 | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1     | .857 <sup>a</sup> | .735     | .559              | 924.81898                  |

a. Predictors: (Constant), pemupukan\_x2, curah\_hujan\_x1

**ANOVA<sup>b</sup>**

| Model |            | Sum of Squares | Df | Mean Square | F     | Sig.              |
|-------|------------|----------------|----|-------------|-------|-------------------|
| 1     | Regression | 7123303.213    | 2  | 3561651.607 | 4.164 | .136 <sup>a</sup> |
|       | Residual   | 2565870.413    | 3  | 855290.138  |       |                   |
|       | Total      | 9689173.626    | 5  |             |       |                   |

a. Predictors: (Constant), pemupukan\_x2, curah\_hujan\_x1

b. Dependent Variable: produksi\_y

**Coefficients<sup>a</sup>**

| Model |                | Unstandardized Coefficients |            | Standardized Coefficients | t     | Sig. |
|-------|----------------|-----------------------------|------------|---------------------------|-------|------|
|       |                | B                           | Std. Error | Beta                      |       |      |
| 1     | (Constant)     | 9144.100                    | 4394.293   |                           | 2.081 | .129 |
|       | curah_hujan_x1 | -.432                       | 2.908      | -.084                     | -.149 | .891 |
|       | pemupukan_x2   | .003                        | .002       | .928                      | 1.635 | .201 |

a. Dependent Variable: produksi\_y