Table 1. The composition of the development of cocoa fruits in the experimental locations prior to treatments

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Blocks | Sub Districts, Districts | Number of cocoa fruits | | | | | | | | | | | | | | | | | | | | | | | |
| Sex Pheromone | | | | | | Sex Pheromone + Pod Wrapping | | | | | | Pod Wrapping | | | | | | Control | | | | | |
| a | b | c | d | e | Σ | a | b | c | d | e | Σ | a | b | c | d | E | Σ | a | b | c | d | e | Σ |
| I | Banjarharjo, Kalibawang | 217 | 72 | 89 | 81 | 55 | 514 | 232 | 67 | 91 | 211 | 96 | 697 | 267 | 83 | 95 | 123 | 53 | 621 | 272 | 89 | 93 | 44 | 18 | 516 |
| II | Banjaroya, Kalibawang | 166 | 117 | 112 | 98 | 77 | 570 | 248 | 94 | 107 | 101 | 36 | 586 | 189 | 107 | 101 | 105 | 70 | 572 | 227 | 97 | 133 | 104 | 99 | 660 |
| III | Hargotirto,  Kokap | 81 | 12 | 41 | 18 | 26 | 178 | 145 | 43 | 61 | 24 | 57 | 330 | 149 | 41 | 52 | 34 | 33 | 309 | 101 | 21 | 81 | 36 | 57 | 296 |
| IV | Hargowilis,  Kokap | 143 | 24 | 55 | 52 | 72 | 346 | 148 | 38 | 80 | 93 | 83 | 442 | 121 | 41 | 56 | 33 | 21 | 272 | 169 | 35 | 52 | 39 | 39 | 334 |
| V | Pagerharjo, Samigaluh | 239 | 92 | 119 | 188 | 67 | 705 | 116 | 63 | 79 | 179 | 65 | 502 | 354 | 150 | 93 | 252 | 68 | 917 | 244 | 67 | 106 | 157 | 63 | 637 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Proportion (%) | | 37 | 14 | 18 | 19 | 13 | 100 | 35 | 12 | 16 | 24 | 13 | 100 | 40 | 16 | 15 | 20 | 9 | 100 | 41 | 13 | 19 | 16 | 11 | 100 |
| Sample trees | | 12 | | | | | | 12 | | | | | | 12 | | | | | | 12 | | | | | |

Note:

Σ = sum total of a, b, c, d, e

a = flower

b = young pod <8 cm

c = young pod 8 - 10 cm

d = young pod > 10 cm

e = ripe pod

Table 2. The infested cocoa pod by CPB, number of boring holes, and damaged seed on four treatments

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Subdistricts and districts | Damaged pods (%) | | | | Number of bor holes/pod | | | | Damaged seeds (%) | | | | |
| A | B | C | D | A | B | C | D | A | B | C | D | |
| Banjarharjo, Kalibawang | 65 | 9 | 0 | 47 | 1.98 | 0.18 | 0.00 | 0.90 | 22.25 | 0.76 | 0.00 | 19.56 |
| Banjaroya, Kalibawang | 63 | 0 | 0 | 55 | 1.88 | 0.00 | 0.00 | 1.18 | 20.77 | 0.00 | 0.00 | 15.20 |
| Hargotirto, Kokap | 72 | 9 | 0 | 90 | 2.8 | 0.12 | 0.00 | 2.63 | 25.77 | 2.08 | 0.00 | 35.97 |
| Hargowilis, Kokap | 82 | 4 | 6 | 65 | 1.89 | 0.03 | 0.14 | 1.77 | 48.68 | 0.11 | 1.02 | 27.51 |
| Pagerharjo, Samigaluh | 16 | 0 | 0 | 28 | 0.32 | 0.00 | 0.00 | 0.56 | 2.44 | 0.00 | 0.00 | 3.01 |
| Average | 60 a | 4 b | 1 b | 57 a | 1.77 a | 0.07 b | 0.03 b | 1.41 a | 23.98 a | 0.59 b | 0.20 b | 20.25 a | |
| CV | 42 | 105 | 224 | 41 | 50.71 | 121.97 | 223.61 | 57.85 | 68.85 | 151.49 | 223.61 | 61.62 | |

Description:

The everages within row followed by the same letters are not significantly different (P <0.05). Anova of transformed data into Log10(X + 10)

A = sex pheromone trap

B = sex pheromone trap and pod wrapping

C = podwrapping

D = control