LAMPIRAN - LAMPIRAN

Lampiran 1.

Tabel 07. Data Pengaruh Pemberian Berbagai Intensitas Cahaya Malam Pada Ngengat Terhadap Jumlah Telur Yang Dihasilkan

| Perlakuan | Ulangan | | | | Jumlah | Rerata |
|---|---|---|---|---|---|---|
| | I | II | III | IV | | |
| A | 1195 | 817 | 970 | 944 | 3926 | 981,5 |
| B | 1002 | 887 | 812 | 795 | 3496 | 874 |
| C | 712 | 737 | 813 | 630 | 2892 | 723 |
| D | 714 | 718 | 615 | 672 | 2719 | 679,75 |
| E | 659 | 502 | 719 | 759 | 2639 | 659,75 |
| Total | | | | | 15672 | y=783,6 |

$$JKT = \Sigma x^2 - FK$$

$$= (1195^2 + 817^2 + \ldots\ldots\ldots + 759^2) - 12286848,8$$

$$= 12752130 - 12286848,8$$

$$= 465281,2$$

$$JKP = \frac{\Sigma (\text{Jumlah Perlakuan})^2}{r} - FK$$

$$= \frac{3926^2 + 3496^2 + \ldots\ldots\ldots + 2639^2}{4} - 1228648,8$$

$$= 302260,7$$

$$JKE = JKT - JKP$$

$$= 465281,2 - 302260,7$$

$$= 163020,5$$

$$KTP = \frac{JKP}{t - 1}$$

$$KTP = \frac{302260,7}{4} = 75565,175$$

$$KTE = \frac{JKE}{t\ (r - 1)}$$

$$= \frac{163020,5}{15}$$

$$= 10868,033$$

$$F_{hit} = \frac{KTP}{KTE}$$

$$= \frac{75565,175}{10868,033} = 6,953$$

$$KK = \frac{\sqrt{KTE}}{y} \times 100\%$$

$$= \frac{\sqrt{10868,033}}{783,6} \times 100\%$$

$$= 13,3\ \%$$

Tabel 08. Anova

| Sumber Keraga-gaman | db | JK | KT | F hit | F tabel | |
|---|---|---|---|---|---|---|
| | | | | | 0,05 | 0,01 |
| Perlk | 4 | 302260,7 | 75565,175 | 6,953 ** | 3,06 | 4,89 |
| Error | 15 | 163020,5 | 10868,033 | | | |
| Total | 9 | 465281,2 | | | | |

Keterangan : ** = berbeda sangat nyata

$$LSD_{0,05} = t_{0,05} \times \sqrt{\frac{2\,(KTE)}{r}}$$

$$= 2,131 \times \sqrt{\frac{2(10868,033)}{4}}$$

$$= 157,09$$

$$LSD_{0,01} = t_{0,01} \times \sqrt{\frac{2\,(KTE)}{r}}$$

$$= 2,947 \times \sqrt{\frac{2(10868,033)}{4}}$$

$$= 217,24$$

Tabel 09. Uji LSD

| Perlk | Rerata | A | B | C | D |
|---|---|---|---|---|---|
| A | 981,5 | - | | | |
| B | 874 | 107,5 | | | |
| C | 723 | 258,5 ** | 151 | | |
| D | 679,75 | 301,75 ** | 194,25 * | 43,25 | |
| E | 659,75 | 321 ** | 214,25 * | 63,25 | 20 |

Keterangan : * = berbeda nyata
** = berbeda sangat nyata

Lampiran 2

Tabel 10. Data Pengaruh Pemberian Berbagai Intensitas Cahaya Malam Pada Ngengat Terhadap Jumlah Telur Yang Menetas

| Perlakuan | Ulangan | | | | Jumlah | Rerata |
|---|---|---|---|---|---|---|
| | I | II | III | IV | | |
| A | 852 | 474 | 651 | 551 | 2528 | 632 |
| B | 688 | 611 | 540 | 386 | 2225 | 556,25 |
| C | 313 | 465 | 597 | 347 | 1722 | 430,5 |
| D | 435 | 352 | 230 | 276 | 1293 | 323,25 |
| E | 412 | 193 | 248 | 372 | 1225 | 306,25 |
| Total | | | | | 8993 | y=449,65 |

$$FK = \frac{(\Sigma x)^2}{r.t} = \frac{8993^2}{20} = \frac{80874049}{20}$$

$$= 4043702,45$$

$$JKT = \Sigma x^2 - FK$$

$$= (852^2 + 474^2 + \ldots\ldots + 248^2 + 372^2) - 4043702,45$$

$$= 4605341 - 4043702,45$$

$$= 561638,55$$

$$JKP = \frac{\sum (\text{Jumlah Perlakuan})^2}{r} - FK$$

$$= \frac{(2528^2 + \ldots\ldots\ldots\ldots\ldots + 1225^2)}{4} - 4043702,45$$

$$= 4369791,75 - 4043702,45$$

$$= 326089,2$$

$$JKE = JKT - JKP$$

$$= 561638,55 - 326089,3$$

$= 235549,25$

$$KTP = \frac{JKP}{t - 1} = \frac{326089,3}{4}$$

$= 81522,325$

$$KTE = \frac{JKE}{t\,(r - 1)} = \frac{235549,25}{15}$$

$= 15703,2833$

$$F_{hit} = \frac{KTP}{KTE} = \frac{81522,325}{15703,2833} = 5,19$$

$$KK = \frac{\sqrt{KTE}}{y} \times 100\%$$

$$= \frac{\sqrt{15703,2833}}{449,65} \times 100\%$$

$= 27,87\%$

Tabel 11. Anova

| Sumber Keragaman | db | JK | KT | $F_{hit}$ | $F_{tabel}$ | |
|---|---|---|---|---|---|---|
| | | | | | 0,05 | 0,01 |
| Perlk | 4 | 326089,3 | 81522,325 | 5,19** | 3,06 | 4,89 |
| Error | 15 | 235549,25 | 15703,283 | | | |
| Total | 9 | 561638,55 | | | | |

Keterangan : ** = berbeda sangat nyata

$$LSD_{0,05} = t_{0,05} \times \sqrt{\frac{2\,(KTE)}{r}}$$

$$= 2,131 \times \sqrt{\frac{2\,(15703,283)}{4}}$$

$= 188,83$

$$LSD_{0,01} = t_{0,01} \times \sqrt{\frac{2\,(KTE)}{r}}$$

$$= 2,947 \times \sqrt{\frac{2\,(15703,283)}{4}}$$

$$= 261,13$$

Tabel 12. Uji LSD

| Perlk | Rerata | A | B | C | D |
|---|---|---|---|---|---|
| A | 632 | - | | | |
| B | 556,25 | 76 | | | |
| C | 430,5 | 201,5 * | 125,75 | | |
| D | 323,25 | 308,75 ** | 233 * | 107,25 | |
| E | 306,25 | 325,75 ** | 250 * | 124,25 | 17 |

Keterangan : * = berbeda nyata
** = berbeda sangat nyata

Lampiran 3.

Tabel 13. Data Pengaruh Pemberian Berbagai Intensitas Cahaya Malam Pada Ngengat Terhadap Jumlah Ulat Grayak (Instar 2-3)

| Perlakuan | Ulangan | | | | Jumlah | Rerata |
|---|---|---|---|---|---|---|
| | I | II | III | IV | | |
| A | 724 | 384 | 472 | 366 | 1946 | 486,5 |
| B | 576 | 497 | 437 | 312 | 1822 | 455,5 |
| C | 207 | 392 | 508 | 304 | 1411 | 352,75 |
| D | 375 | 309 | 195 | 223 | 1102 | 275,5 |
| E | 368 | 177 | 216 | 323 | 1084 | 271 |
| Total | | | | | 7365 | y=368,25 |

$$FK = \frac{(\Sigma x)^2}{r.t} = \frac{(7365)^2}{20} = \frac{54243225}{20}$$

$$= 2712161,25$$

$$JKT = \Sigma x^2 - FK$$

$$= (724^2 + 384^2 + \ldots\ldots + 216^2 + 323^2) - 2712161,25$$

$$= 3084061 - 2712161,25$$

$$= 371899,75$$

$$JKP = \frac{\Sigma\ (\text{Jumlah Perlakuan})^2}{r} - FK$$

$$= \frac{(1946^2 + 1822^2 + \ldots\ldots + 1084^2)}{4} - 2712161,25$$

$$= 2871745,25$$

$$= 159584$$

$$JKE = JKT - JKP$$

$$= 371899,75 - 159584$$

$$= 212315,75$$

$$KTP = \frac{JKP}{t - 1} = \frac{159584}{4}$$

$$= 39896$$

$$KTE = \frac{JKE}{t\ (r - 1)} = \frac{212315,75}{15}$$

$$= 14154,38$$

$$F_{hit} = \frac{KTP}{KTE} = \frac{39896}{14154} = 2,82$$

$$KK = \frac{\sqrt{KTE}}{y} \times 100\%$$

$$= \frac{\sqrt{14154,38}}{368,25} \times 100\%$$

$$= 32\ \%$$

Tabel 14. Anova

| Sumber Keragaman | db | JK | KT | $F_{hit}$ | $F_{tabel}$ | |
|---|---|---|---|---|---|---|
| | | | | | 0,05 | 0,01 |
| Perlk | 4 | 159584 | 39896 | 2,82 | 3,06 | 4,89 |
| Error | 15 | 212315,75 | 14154,38 | | | |
| Total | 19 | 371899,75 | | | | |

Keterangan = tidak berbeda nyata

Lampiran 5

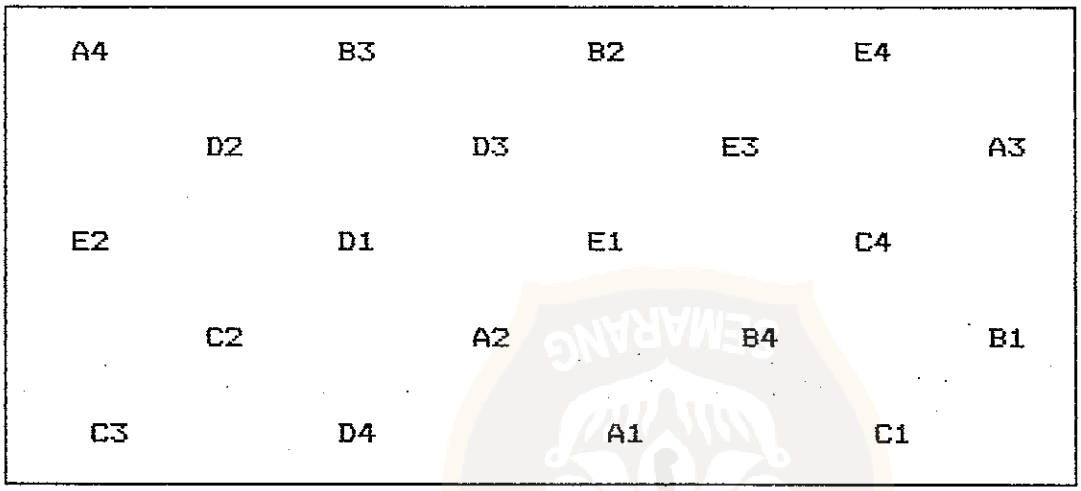
Tabel 16. Data Pengamatan Suhu Dan Kelembaban Harian Selama Perlakuan

| Hari ke | Suhu(°C) | | | | Kelembaban (%) | | | |
|---|---|---|---|---|---|---|---|---|
| | 06.30 | 12.30 | 17.30 | Rerata | 06.30 | 12.30 | 17.30 | Rerata |
| 1 | 27 | 33 | 29 | 29 | 72 | 60 | 64 | 67 |
| 2 | 27 | 32 | 29 | 28,75 | 70 | 62 | 68 | 67,5 |
| 3 | 27 | 32 | 28 | 28,5 | 69 | 64 | 65 | 66,75 |
| 4 | 26 | 33 | 28 | 28,25 | 72 | 62 | 66 | 68 |
| 5 | 27 | 33 | 29 | 29 | 69 | 63 | 67 | 67 |
| 6 | 27 | 32 | 29 | 28,75 | 73 | 61 | 64 | 67,75 |
| Jumlah | | | | 172,25 | Jumlah | | | 404 |
| Rata-rata | | | | 28,71 | Rata-rata | | | 67,33 |

Data Primer Oleh Y. Priatmojo B.P.,1995

Keterangan: Rata-rata Suhu Harian 28,25 C - 29 C
Rata-rata Suhu Keseluruhan 28,71 C
Rata-rata Kelembaban Harian 66,75 % - 68 %
Rata-rata Kelembaban Keseluruhan 67,33 %

Lampiran 7

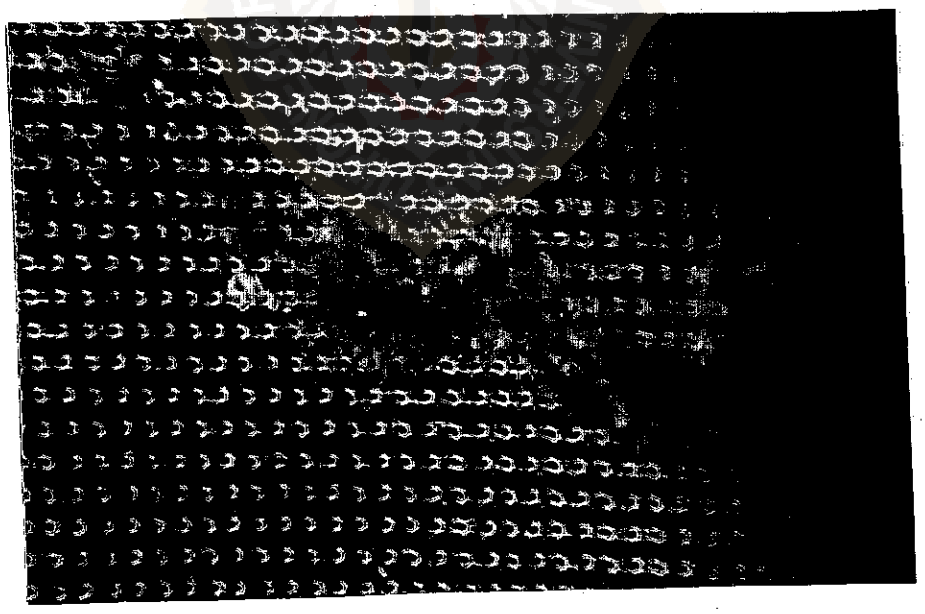



Gambar 09. Skema Penempatan Toples Pada Saat Perlakuan

Keterangan : Huruf besar menunjukan perlakuan, sedangkan angka yang mengikuti huruf besar menunjukkan ulangan.

Lampiran 8

Gambar 10. Ngengat (Stadium Imago) Dari *S. litura* Yang Digunakan Untuk Penelitian



Gambar 11. Telur *S. litura*