**Table 1:** Mortality of banana pseudostem weevilto different concentrations of *Menma*.

|  |  |
| --- | --- |
| **Con. (ppm)** | **Mortality of *O. longicollis*****( HAT)** |
| 0.5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3±0.57 d | 0.3±0.57 d | 1.3±0.57 c | 2.6±0.57 b | 5±0 a |
| 8 | 0 | 0 | 0 | 0 | 1±1 b | 1.6±0.57 b | 4.3±0.57 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a |
| 10 | 0 | 0.3±0.57 d | 0.3±0.57d | 1.3±0.57 c | 3.6±1.15 b | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a |
| 20 | 2.3±0.57 c | 4±0.57b | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0a |

Mean ± SD. Rep. 3; n= 5

Letters of the same in the same column are statistically non-significant.

 

**Fig, 1a:** Mortality curve of *O. longicollis* to varying concentration of *Menma* with 95% confidence limits

**Fig, 1b**; Significance sketch with 95% confidence limit to mortality of *O. longicollis* (in LS Means) for varying concentration of *Menma* with time

**Fig, 2;** Scatter plot of LC50 values of *O. longicollis* for all different time periods observed

**Table, 2:** Mortality of banana pseudostem weevil for different doses to *Menma.*

|  |  |
| --- | --- |
| **Dose (ml)** | **Mortality of *O. longicollis* at different** **HAT** |
| 0.5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| 2 | 0 | 0 | 0 | 0 | 0.3±0.57e | 1.6±0.57d | 2.6±0.57c | 3.6±0.57b | 5±0 a |
| 3 | 0 | 0 | 0 | 0.3±0.57e | 1.3±0.57d | 2.6±0.57c | 4.3±0.57b | 5±0a | 5±0 a |
| 4 | 0 | 0.3±0.57e | 2.3±0.57d | 2.6±0.57c | 4.6±0.57b | 5±0 a | 5±0 a | 5±0a | 5±0 a |
| 5 | 0 | 2.6±0.57c | 4.3±0.57b | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a |
| 6 | 2.6±0.57d | 3±0.57c | 4.3±0.57b | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a | 5±0 a |
|  |  |  |  |

Mean ± SD. Rep. 3; n= 5

Letters of the same in the same column are statistically non-significant.

 

**Fig, 3b**; Significance sketch with 95% confidence limit to mortality of *O. longicollis* (in LS Means) for varying dose and time with *Menma.*

**Fig, 3a:** Mortality curve to *O. longicollis* over varying dose of *Menma* with 95% confidence limits

**Fig, 4;** Scatter plot indicating the LD50 values of *O. longicollis* for all the respective time periods observed in the study

**Table, 3**: Mortality of banana pseudostem weevil at different exposure periods to *Menma*.

|  |  |
| --- | --- |
| Exposure (h) | **Mortality of *O. longicollis* at different** **HAT** |
| 0.5 | 1 | 2 | 5 | 8 | 10 | 12 | 24 | 48 |
| 6 | 0 | 0.3±0.57g | 0.3±0.57g | 1.6±0.57f | 2.3±0.57e | 2.6±0.57e | 4±0c | 4.6±0.57b | 5±0a |
| 8 | 0 | 0.6±0.57g | 1.3±0.57f | 2±0.57e | 2.6±0.57d | 3±0.57c | 4.3±0.57b | 5±0a | 5±0a |
| 10 | 0 | 0.3±0.57f | 1.6±0.57e | 2.3±0.57d | 3±0.57c | 3.3±0.57b | 5±0a | 5±0a | 5±0a |
| 12 | 0.3±0.57g | 1±0f | 2.3±0.57e | 2.6±0.57d | 3.3±0.57c | 3.6±0.57b | 5±0a | 5±0a | 5±0a |
| 14 | 0.6±0.57f | 2±0.57e | 3±0.57d | 3.6±0.57c | 4.3±0.57b | 5±0a | 5±0a | 5±0a | 5±0a |
|  |  |  |  |

 

**Fig, 5b**; Two-way ANOVA significance sketch with 95% confidence limit to mortality of *O. longicollis* (in LS Means) for varying exposure period and time of *Menma*

**Fig, 5a:** Mortality curve of *O. longicollis* to varying exposure period to *Menma* with 95% confidence limits

**Fig, 6;** Scatter plot indicating the KDT50 values of *O. longicollis* for all the respective time periods observed in the study