

**Politeknik Kesehatan Kemenkes Bandung**

Program Studi Sarjana Terapan Sanitasi Lingkungan  
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**Abstrak**

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**PENGARUH JENIS LAMPU WARNA BIRU PADA *LIGHT TRAP ELECTROCUTOR* TERHADAP PERANGKAP LALAT DI DAPUR PT. TRIANA HARVESTINDO NUSANTARA**

x + 81 halaman + 13 tabel + 5 gambar + 4 lampiran

Dapur yang dimiliki oleh PT. Triana Harvestindo terletak berdekatan dengan tempat pembuangan sementara sehingga dapat mencemari makanan dan minuman terutama pencemaran yang disebabkan oleh adanya lalat di sekitar dapur. Kepadatan lalat dapat di kendalikan secara fisik menggunakan alat *light trap electrocutor* dengan jenis lampu warna biru. Berdasarkan pemeriksaan kepadatan lalat, diperoleh kepadatan lalat tertinggi yaitu 8 ekor per hari. Indeks kepadatan lalat melebihi baku mutu lalat yaitu  $<2$  lalat sesuai Peraturan Menteri Kesehatan tentang Kesehatan Lingkungan Nomor 2 Tahun 2023. Tujuan penelitian ini untuk mengetahui pengaruh jenis lampu warna biru yaitu lampu (fluoresensi, LED dan pijar) perangkat lalat. Desain Penelitian yang digunakan pada penelitian ini yaitu penelitian eksperimen dengan desain penelitian menggunakan Post test with Control. Populasi yang di gunakan adalah lalat rumah (*Musca domestica*) yang mati dalam alat Light trap electrocutor. Teknik pengambilan sampel yang dipakai yaitu purposive sampling. Pengolahan data ini menggunakan analisis univariat dan bivariat. Hasil Penelitian ini, jenis lampu fluoresensi dapat menarik lalat sebanyak 20 ekor lalat dengan rata – rata 4 ekor per hari, lampu LED dapat menarik lalat sebanyak 30 ekor dengan rata – rata 5 ekor per hari, lampu Pijar dapat menarik lalat sebanyak 38 ekor dengan rata – rata 7 ekor per hari. Terdapat pengaruh jumlah lalat yang mati pada Light trap Electrocutor dengan perbedaan jenis lampu warna biru. Sebaiknya pihak industri melakukan Penerapan alat *light trap electrocutor* dengan menambahkan jenis lampu Pijar warna Biru untuk mengendalikan kepadatan lalat di dapur PT. Triana Harvestindo Nusantara.

DAFTAR PUSTAKA : 21 (2011-2023)

KATA KUNCI : Jenis Lampu Warna Biru, *Light Trap Electrocutor*, Perangkat Lalat Rumah

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**Abstract**

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**The influence of the type of blue light in the Electrocutor Light trap on the Death of flies in the kitchen PT. Triana Harvestindo Nusantara**

x + 81 pages + 13 tables + 5 pictures + 4 attachment

The kitchen owned by PT. Triana Harvestindo is located near a temporary disposal site, posing a contamination risk to food and beverages, especially from flies. The density of flies can be controlled physically using a light trap electrocutor with blue-colored lamps. Based on examination of fly density, the highest fly density was obtained, namely 8 individuals. fly density index exceed the quality standard for flies, namely  $<2$  flies, in accordance with the Minister of Health's Regulation on Environmental Health Number 2 of 2023. The aim of this study is to determine the effect of different types of blue-colored lamps (fluorescent, LED, and incandescent) on fly trap. The research design used in this study is experimental with a Post test with Control design. The population studied consists of house flies (*Musca domestica*) killed in the light trap electrocutor. Purposive sampling technique was used for sample collection. Data analysis was conducted using univariate and bivariate analysis. The results of this study show that flouresensi lamps attracted 20 flies with an average of 4 flies, LED lamps attracted 30 flies with an average of 5 flies, and incandescent lamps attracted 38 flies with an average of 7 flies. There is an influence of the number of flies killed in the Light Trap Electrocutor with different types of blue-colored lamps. It is recommended that the industry implement a light trap electrocutor device with the addition of blue-colored incandescent bulbs to control fly density in the kitchen of PT. Triana Harvestindo Nusantara.

REFERENCES : 21 (2011-2023)

KEYWORDS : Blue Light Type, Light Trap Electrocutor, Death Home Flies