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ABSTRACT

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THE RELATIONSHIP OF DISTANCE FROM HOUSE TO CATTLE FARM WITH FLY DENSITY IN MANGKUBUMI DISTRICT, TASIKMALAYA CITY, 2024

One potential sector where flies can breed is cattle farming. In 2023, Mangkubumi District is area with the largest number of cattle farms in Tasikmalaya City. This research aims to determine the relationship between the distance from the house to the cattle farm and the density of flies in Mangkubumi District. This research used quantitative research methods with an analytical survey design using a cross-sectional approach. The population in this study was the house around the cattle farm in Mangkubumi District within a radius of 900 m and >900 m from polling station which amounted to 1,274 houses with a sample of 213 houses. The technique for determining the sample was proportional random sampling. Data sources were primary data and secondary data. Instruments used in this study include fly grill, luxmeter, thermohyrometer, handcounter, smartphone, home distance measurement sheet and fly density, and stationery. Data analysis was done through univariate analysis and bivariate analysis with Spearman Rank test in significance level of $\alpha = 0.05$. The results of this research showed that there is relationship between the distance from the house to the cattle farm and the density of flies in Mangkubumi District, score of p-value 0.000 ($p < 0.05$) and a correlation coefficient is ($\rho = -0.847$). The relationship between them was very strong opposite level, meaning that increase distance of house from the farm, showed the fly density decrease in that house. The suggestion of this study for the community and managers of cattle farms to pay attention to sanitation, as well as for the government to consider the effective flight distance of flies as one of the indicators of granting permits for the construction of cattle farms. For the next researcher to be able to examine other factors such as the distance of the house to the polling station, the condition of the garbage in the house related, and collect sanitary information related cattle farms.

Keywords: *Fly density, distance, cattle farm*