

**TEMPORAL CHANGES IN FLY POPULATIONS
ASSOCIATED WITH PIG MANURE**

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BIOGRAPHICAL SKETCH

The author was born on the 22nd day of November, year 1994, in San Jose City, Nueva Ecija. He is the eldest amongst five sons of Jerry N. Delos Reyes and Maribel V. Delos Reyes. He graduated primary education at San Isidro Elementary School (2007) and finished secondary education at San Isidro National High School (2011). Despite completion of his basic education in the same town, he had been into several schools of different places. With the series of transferring, life has not been easy. He had to live with his relatives and bore the pain of separation from the family. However, the sequence of changing environment has molded him with enduring spirit, flexibility and independence.

Going to college is highly unanticipated for him due to several circumstances. But thanks be to God for His provisions. He was admitted at Central Luzon State University and decided to take the degree of Bachelor of Science in Agriculture. He was awarded with scholarships covering full tuition fee however, school fees alone cannot sustain his educational requirements leading him to take a leave of absence.

During that pause, he was referred to Dr. Marilyn G. Patricio of the RET Office, CLSU and had the opportunity to work fulltime under her supervision. It was a challenging moment for him, due that he has not previously completed relevant academic units but still, it was not impossible. He opened himself for corrections and focused more on the learnings thus, managed to complete responsibilities assigned properly.

Quitting has never been an option for him. Two years later, he fully accepted the challenge of specializing Entomology. Then again, he crossed paths with his adviser Dr. Elaida R. Fiegalan, who have been his influence and reference point.

In his affinity in church activities, youth fellowship, and being part of the worship team, gradually he discovered hidden skills, talents and his love of music. The nature within him, his outlook and spirit are proven by his family and valued individuals surrounding him.

His encounter with people cannot be measured while a fraction stayed the valued. Friends, may be few, but remained true and dependable; mentors that unknowingly guide and encourage; a family that has always been the fuel to continue; and a God, who has always been in control.

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ABSTRACT

DELOS REYES, JOHN PAUL V., Department of Crop Protection, College of Agriculture, Central Luzon State University, Science City of Muñoz, Nueva Ecija, Philippines, **January 2020**, **TEMPORAL CHANGES IN FLY POPULATIONS ASSOCIATED WITH PIG MANURE**

Adviser: ELAIDA R. FIEGALAN, Ph.D.

Eight species of Brachycerous flies were found associated with pig manure; represented in five families viz. Muscidae (*Musca domestica* Linnaeus, *Thricops* sp. Rondani), Chloropidae (*Siphunculina* sp. Rondani), Sphaerooceridae (*Coproica ferruginata* Stenhammar), Ulidiidae (*Physiphora clausa* Macquart) and Stratiomyidae (*Hermetia illucens* Linnaeus, *Microchrysa flavicornis* Meigen, *Microchrysa flaviventris* Wiedemann). The most dominant family was Stratiomyidae, with three species comprising the group. Higher population of flies was recorded in the covered state than of the exposed ones with a single species difference in the total number of species realized. Fly fauna in pig manure was characterized by the occurrence of large numbers of *C. ferruginata* occurring the longest of time. Results suggest that fly faunal community in manure ecosystem changes over time both in terms of population and in species composition. This study also suggests that species involved in the succession do not vary from that of the species present from nearby localities with similar climatic condition and geographic orientation.

Keywords: Brachycerous; pig manure; temporal changes; succession; species composition

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