

ABSTRACT

The purpose of this study was to identify the types of predatory insects and predatory spiders found in the coffee plant agroecosystem, and to determine the diversity, abundance, evenness, and dominance index. This study was conducted on coffee plants in Rikit Musara, Permata District, Bener Meriah Regency and Blang Rakal, Pintu Rime Gayo District, Bener Meriah Regency, using two methods, namely using traps and direct collection on coffee plants. The results showed that predatory insects and predatory spiders found in coffee plants at an altitude of 750-1000 masl consisted of 4 families, 597 individuals and 7 species at an altitude of 1000-1250 masl there were 5 families 655 individuals and 8 species of predators. The diversity index value of predatory insects and predatory spiders at both altitudes was classified as low, the evenness value in coffee plants was classified as moderate. The predator dominance index value in coffee plants was classified as high. The most frequently encountered predators on coffee plants are *Dolichoderus* sp, *Solenopsis invicta* and *Tetragnatha* sp.

Keywords: Biological agents, Extraordinary events, Coffee agroecosystem.