

## ABSTRACT

Mutho', Aniqul. 2012. **The Diversity of Earth-Fauna at Guava Plantation, Bumiaji Village, Batu City**. Thesis, Biology Department, Faculty of Science and Technology, Maulana Malik Ibrahim State Islamic University of Malang. Supervisor I: Dwi Suheriyanto, S.Si. M.P, supervisor II: Dr. Ahmad Barizi, M.A.

Key Words: Diversity, Inorganic, Semi-organic, Guava

Earth-fauna is an organism having life cycle inside soil. It has important role that can help soil fertility process naturally. Semi-organic guava agriculture has plus value because it decreases pesticides and chemical fertilizer which are dangerous for earth-fauna's life. This research is aimed to understand the diversity of earth-fauna at semi-organic and inorganic guava plantation in Bumiaji village, Batu city.

It is descriptive quantitative research using exploration method. To take the data, the researcher uses absolute method and relative method while to analyze, he uses diversity index, domination index, and similarity of two areas.

This research presents that the finding is there are 6 classes, 11 orders, 14 families and 1234 individuals in the semi-organic guava plantation. While in inorganic guava plantation, there are 4 classes, 8 orders, 8 families and 593 individuals. The highest diversity index is found in the semi-organic guava plantation. Similarity index of two areas shows that they have low similarity. Analysis of organic substance and C/N ratio on semi-organic area is higher than inorganic area.