

ABSTRACT

Nasirudin, Mohamad. 2012. **Land Makrofauna Diversity In Estates Apples Semi Organic And Inorganic Poncokusumo village of Malang**. Skripsi, Department of Biology, Faculty of Science and Technology, State Islamic University (UIN) Maulana Malik Ibrahim Malang. Supervisor I: Dwi Suheriyanto, M.P. Supervisor II: Dr. Ahmad Barizi, M.A

Key words: Diversity, Land Makrofauna, Apples, Semi Organic, Inorganic.

Apple is crop cultivation pretty much cultivated plants cultivated in the Poncokusumo village. Apple cultivation in the village of Malang Pocokusumo Poncokusumo District uses the concept of semi organic and inorganic farming. Use high chemical pesticides led to fall of ground makrofauna diversity. Diversity makrofauna land can be used as an indicator of the stability of the ecosystem in the area, so this study aims to determine the types makrofauna, knowing the diversity and dominance makrofauna land and important value index makrofauna plantation land in Spring Apples Organic and Inorganic Poncokusumo Malang village.

The research was conducted in the Poncokusumo village of Malang and identification of land makrofauna performed at the Laboratory of Ecology Department of Biology of the State Islamic University Maulana Malik Ibrahim Malang, in June to July 2012. The study was conducted at the apple plantation area of 50 m² using exploratory methods, namely observation or direct sampling. Observations were made using the absolute method (direct observation) and the method of relative (Pitfall Trap and Berlese Funnel).

Results at in Semi Organic apple plantation consists of 9 orders, 18 families and 711 individu cover herbivor (4 families), predators (10 families) and the decomposition (4 families), Inorganic land consists of 9 orders, 16 families and 497 individu cover herbivor (3 families), predators (8 families) and the decomposition (4 families). Diversity index (H') land makrofauna in semi organic land by direct observation higher at 2.48 compared with inorganic land is 2:27, where as the relative method (Pitfall Trap) H' in the field of Semi Organic higher at 1.87, compared to Inorganic land is 1.47 and (Berlese Funnel) H' in the Semi Organic land higher at 1.34, compared to inorganic land is 0.86.