

## ABSTRACT

**Rendi Ginanjar. 2019. Diversity of The Order Homoptera insects in the park Kehati Kiara Payung Sumedang Regency, West Java. Advisors: Drs. Suhara M.Pd. and Iwan Setia Kurniawan S.Pd., M.Pd.**

*The purpose of this research was to obtain data on the diversity of the order Homoptera insect in the garden of Kehati Kiara Payung Sumedang, West Java. Research done on June 25-26th 2019. The research design used was a Belt Transect along the 100 meters which consists of six stations, distances between stations is 50 meters. Each consists of six squares, the distance between the squares of 20 meters. Sampling the sample by the method of Beating tray, hand and Shorting, Insecnet, Flotation and Pit Fall Trap. Identification of the samples was done in the laboratory of Biology Unpas, Bandung. Retrieved four of the order homoptera insect familia, 10 genera, and 10 species. The most widely found Familia i.e. familia Delphacidae with four genera and four species. Ancillary data measured i.e. factors-climatic zones that are processed with Multiple Linear Regression on IBM SPSS program to know the influence of factors-climatic zones against diversity. The equation of linear regression analysis of the relationship with the environmental factors of the diversity of insect order Homoptera is  $Y = 128,049 +_1 X 0.058 - 0.069 X_2 + X_3 0.004 X_4 + 0.007 - X_5 0041 - X_6 6,907$ . The average value of diversity index 1.05, shows the diversity of the order homoptera insect in the garden of Kehati Kiara Payung Sumedang, West Java.*

**Keywords :** Diversity, Insect Order Homoptera, Garden Kehati