ABSTRAC

Khofifah Musdar (08220220054). The Effect of Providing Vermicompost and NPK Fertilizer on the Growth and Production of Pakcoy (Brassica rapa L.) Plants under guidance Aminah dan Hidrawati.

To determine the effect of the interaction of vermicompost and NPK fertilizer on the growth and production of pakcoy plants and to determine the best dose of vermicompost and NPK fertilizer on the growth and production of pakcoy plants. This research was conducted on the Gowa Agricultural Development Polytechnic Campus, Romanglompoa Village, BontoMarannu District, Gowa Regency, South Sulawesi Province. The research was conducted from June to July. This research was carried out using a randomized block design (RAK) which consisted of two components, the first was the administration of vermicompost fertilizer; This element consists of three levels, namely control, 5,000 kg/ha (100 g/polybag), 10,000 kg/ha (200 gr/polybag). The second factor is the provision of NPK fertilizer at three levels, namely control, 50 kg/ha (10 g/polybag), 100 kg/ha (20 g/polybag). The parameters observed were plant height, number of leaves, harvest age, total fresh weight, consumption fresh weight and soil chemical results.

Based on the research results, it shows that the application of vermicompost fertilizer 200 gr/polybag and NPK fertilizer 20 gr/polybag has the best effect on the number of leaves, namely with the highest averages of 12.46 and 14.32. Then there was the interaction of vermicompost and NPK fertilizer on the number of leaves, namely the best treatment combination, namely 200 gr/polybag and 20 gr/polybag with an average of 16.73.

Keywords: Pakcoy Plant, Vermicompost Fertilizer, NPK Fertilizer.