

ABSTRAK

PENGARUH KOMBINASI PUPUK ORGANIK GRANUL DAN NPK TERHADAP PERTUMBUHAN DAN HASIL TANAMAN SAWI PAGODA (*Brassica narinosa* L.)

Oleh

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Sawi pagoda merupakan salah satu jenis sayuran yang termasuk ke dalam keluarga *Brassicaceae* yang memiliki nilai kandungan gizi yang tinggi yang sangat bermanfaat bagi kesehatan. Pemberian pupuk anorganik secara berlebihan pada budidaya sawi pagoda dapat merusak lingkungan. Pupuk Organik Granul (POG) diharapkan dapat mengefisiensikan penggunaan pupuk anorganik. Penelitian bertujuan untuk mengetahui kombinasi Pupuk Organik Granul (POG) dengan pupuk N, P, K yang dapat memberikan pengaruh terbaik terhadap pertumbuhan dan hasil tanaman sawi pagoda (*Brassica narinosa* L.). Penelitian dilaksanakan pada bulan Maret sampai dengan Mei 2025 bertempat di Fakultas Pertanian Universitas Siliwangi Tasikmalaya menggunakan Rancangan Acak Kelompok (RAK) dengan 5 perlakuan dan 5 ulangan. Perlakuan yang diuji yaitu A = pupuk N,P,K rekomendasi 250kg/ha (0,62g/polybag), B = POG 200g/polybag + NPK 0,50 g/polybag, C = POG 300g/polybag + NPK 0,37g/polybag, D = POG 400g/polybag + NPK 0,25g/polybag, E = POG 500g/polybag + NPK 0,12g/polybag. Data analisis menggunakan sidiik ragam dengan Uji F dan dilanjutkan dengan Uji Jarak Berganda Duncan dengan taraf 5% . Hasil penelitian menunjukkan bahwa kombinasi pupuk organik granul 300 g/polybag + NPK 0,37 g/polybag memberikan pengaruh paling baik terhadap parameter jumlah daun per tanaman, bobot brangkasan per tanaman, bobot bersih pertanaman dan indeks panen.

Kata kunci: Pupuk organik granul, Pupuk NPK, Pupuk anorganik, Sawi pagoda

ABSTRACT

THE EFFECT OF GRANULAR ORGANIC FERTILIZER AND NPK COMBINATION ON THE GROWTH AND YIELD OF PAGODA MUSTARD (*BRASSICA NARINOSA L.*)

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Pagoda mustard is a type of vegetable belonging to the Brassicacea family that has a high nutritional value that is very beneficial for health. Excessive application of inorganic fertilizers in pagoda mustard cultivation can damage the environment. Granular Organic Fertilizer (POG) is expected to be able to make the use of inorganic fertilizers more efficient. The study aims to determine the combination of Granular Organic Fertilizer (POG) with N, P, K fertilizers that can provide the best effect on the growth and yield of pagoda mustard (*Brassica narinosa L.*). The study was conducted from March to May 2025 at the Faculty of Agriculture, Siliwangi University, Tasikmalaya using a Randomized Block Design (RAK) with 5 treatments and 5 replications. The treatments tested were A = recommended N,P,K fertilizer 250kg/ha (0.62g/polybag), B = POG 200g/polybag + NPK 0.50g/polybag, C = POG 300g/polybag + NPK 0.37g/polybag, D = POG 400g/polybag + NPK 0.25g/polybag, E = POG 500g/polybag + NPK 0.12g/polybag. Data analysis used variance with F Test and continued with Duncan's Multiple Range Test with a level of 5%. The results showed that the combination of granular organic fertilizer 300g/polybag + NPK 0.37g/polybag gave the best effect on the parameters of the number of leaves per plant, the weight of the stalk per plant, the net weight of the planting and the harvest index.

Keywords:Granular Organic Fertilizer, NPK fertilizer, inorganic fertilizer, pagoda mustard.