

Iva Nia Dwi Nila Sari. 210311100084. Pengaruh Pemberian ZPT Paklobutrazol Terhadap Pertumbuhan dan Hasil Tanaman Ubi Jalar (*Ipomoea batatas* L.). Dibimbing Oleh: Dr. Diana Nurus Sholehah, S.Farm. Apt., M.Si dan Choirul Umam, S.TP., M.T

ABSTRAK

Ubi jalar adalah tanaman umbi-umbian yang kaya akan karbohidrat dan nutrisi, sehingga memiliki potensi untuk meningkatkan sistem kekebalan tubuh. Produksi ubi jalar dari tahun ke tahun semakin menurun. Salah satu penyebab penurunan produksi yaitu akibat pertumbuhan tajuk. Salah satu usaha untuk mengatasi rendahnya produksi ubi jalar yaitu dengan mengendalikan pertumbuhan vegetatif dengan menggunakan zat pengatur tumbuh. Penelitian bertujuan untuk mengetahui pengaruh penggunaan berbagai konsentrasi ZPT paklobutrazol terhadap pertumbuhan dan hasil ubi jalar. Penelitian ini dilakukan di PT. Tjandi Sewu Baru pada bulan September sampai Desember 2024. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) Non Faktorial. Faktor tersebut terdiri dari 8 taraf konsentrasi yaitu P0 (Kontrol), P1 (25 ppm), P2 (50 ppm), P3 (75 ppm), P4 (100 ppm), P5 (125 ppm), P6 (150 ppm), dan P7 (175 ppm). Hasil penelitian menunjukkan pemberian perlakuan konsentrasi paklobutrazol berpengaruh nyata terhadap panjang sulur, jumlah umbi per tanaman, total bobot umbi per tanaman, diameter umbi, dan panjang umbi, namun tidak berpengaruh nyata terhadap jumlah daun dan jumlah bunga.

Kata kunci: Konsentrasi, Perlakuan, Tanaman Pangan

Iva Nia Dwi Nila Sari. 210311100084. The Effect Of Administering Paclobutrazol On The Growth and Yield Of Sweet Potatao Plants (*Ipomoea batatas* L.). Supervisor: Dr. Diana Nurus Sholehah, S.Farm. Apt., M.Si and Choirul Umam, S.TP., M.T

ABSTRACT

Sweet potato is a tuber plant that is rich in carbohydrates and nutrients, so it has the potential to boost the immune system. Sweet potato production has been decreasing from year to year. One of the causes of the decline in production is due to canopy growth. One effort to overcome the low production of sweet potatoes is to control vegetative growth by using plant growth regulators. The study aims to determine the effect of using various concentrations of paclobutrazol PGR on the growth and yield of sweet potatoes. This study was conducted at PT. Tjandi Sewu Baru from September to December 2024. This study used a Non-Factorial Randomized Block Design (RAK). The factors consist of 8 concentration levels, namely P0 (Control), P1 (25 Ppm), P2 (50 Ppm), P3 (75 Ppm), P4 (100 Ppm), P5 (125 Ppm), P6 (150 Ppm), and P7 (175 Ppm). The results of the study showed that the provision of paclobutrazol concentration treatment had a significant effect on the length of the tendrils, the number of tubers per plant, the total weight of tubers per plant, tuber diameter, and tuber length, but did not have a significant effect on the number of leaves and the number of flowers.

Keywords: *Consentration, Food Crops, Treatment*