ABSTRAK

Asha Aliya Ridwan. 2023. Respons Pertumbuhan Sebagai Bentuk Adaptasi Beberapa Varietas Bit Merah (*Beta vulgaris*) Di Dataran Medium. Dibawah Bimbingan Esty Puri Utami dan Jajang Supriatna

Bit merah (*Beta vulgaris*) merupakan tanaman introduksi dari daerah subtropis yang optimal tumbuh pada dataran tinggi. Budidaya bit merah di dataran tinggi mengalami penurunan produktivitas karena adanya keterbatasan lahan. Penurunan produktivitas bit merah dapat diatasi dengan melakukan perluasan lahan budidaya ke dataran medium. Perluasan lahan budidaya ini akan menghadapi perbedaan kondisi lingkungan, sehingga diperlukan varietas tanaman bit merah yang mampu beradaptasi di dataran medium. Tujuan dari penelitian ini adalah untuk mengetahui kemampuan adaptasi dan keragaan agronomi beberapa varietas bit merah dataran tinggi di dataran medium. Penelitian ini menggunakan rancangan acak kelompok dengan satu faktor dan sembilan ulangan, faktor yang diteliti yaitu varietas bit merah yang terdiri dari varietas Vantage (a_1), varietas Crimson Globe (a_2), dan Varietas Boro (a_3). Hasil penelitian menunjukan terdapat pengaruh nyata pada perlakuan varietas Vantage, Crimson Globe dan Boro. Varietas Vantage memberikan hasil terbaik pada parameter tinggi tanaman, ukuran daun dan umbi (panjang), varietas Boro memberikan hasil terbaik pada parameter jumlah daun, bobot segar umbi, ukuran daun dan umbi (lebar), varietas Crimson Globe masih memerlukan waktu untuk beradaptasi di dataran medium. Perubahan lingkungan tidak berpengaruh nyata terhadap warna umbi, warna daging umbi dan daya simpan. Hasil penelitian menyatakan varietas Vantage dan Boro memiliki kemampuan adaptasi yang lebih baik dibandingkan varietas Crimson Globe di dataran medium

Kata Kunci: Adaptasi, Varietas, Bit Merah, Dataran Medium

ABSTRACT

Asha Aliya Ridwan. 2023. Growth Response as a Form of Adaptation of Several Red Beet Varieties (Beta vulgaris) in Medium Plains. Under the Guidance of Esty Puri Utami and Jajang Supriatna

Red beet (*Beta vulgaris*) is an introduced plant from subtropical areas that optimally grows in highlands. Red beet cultivation in highlands has decreased in productivity due to limited land. The decrease in red beet productivity can be overcome by expanding cultivated land to medium plains. The expansion of cultivated land will face different environmental conditions, varieties that are able to adapt to medium plains are needed. The purpose of this study was to determine the adaptability and agronomic performance of several highland red beet varieties in medium plains. This study used a randomized block design with one factor and nine replications. The factors studied were red beet varieties consisting of Vantage (a1), Crimson Globe (a2) and Boro (a3) varieties. The results showed that there was a significant effect on the treatment of the Vantage, Crimson Globe and Boro varieties. The Vantage variety gave the best results on the parameters of plant height, leaf size and tuber (length), the Boro variety gave the best results on the parameters of the number of leaves, tuber fresh weight, leaf size and tuber (width), the Crimson Globe variety still needed time to adapt to the plains. currently. Environmental changes did not significantly affect the color of the tubers, tuber flesh color and the shelf life. The results showed that the Vantage and Boro varieties had better adaptability than the Crimson Globe varieties in medium plains

Keywords: Adaptation, Variety, Red Beet, Medium Plains