Density and Cultivar Influence upon Broccoli Production

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ABSTRACT

Broccoli is a vegetable that should be in everyone’s diet but unfortunately in Romania is not so spread, its cultivation doesn’t have a history and most of the people don’t know it and don’t eat it. Because it’s not cultivated enough in Romania and it is brought from import, means that the price of this vegetable is very high. We want to prove that it’s not so hard to grow broccoli because the plant is quite resistant and doesn’t have high demands regarding soil and temperature. Broccoli has fleshy flower heads, usually green in color sprouting from a thick, edible stalk. Broccoli is also high in vitamin C, calcium and soluble fiber and multiple nutrients with anti-cancer properties, especially prostate cancer. Broccoli is a cool weather crop that does poorly in hot summer weather that’s why is better to grow broccoli in spring and autumn.

We used three broccoli hybrids for our research: Fiesta F1, Marathon F1 and Belstar F1. They were grown in two densities, with 40 000 pl/ha and 50 000 pl/ha and with different placement in space, on two rows and on three rows. We used in our research 3 broccoli hybrids: Belstar F1 – Vigorous hybrid, recommended for spring and summer culture. The inflorescence is compact, heavy, colored in dark green. It reaches maturity after 73 days from planting. Marathon F1 – Vigorous hybrid, recommended for spring and summer culture. The inflorescence is compact, heavy. It reaches maturity after 82 days from planting. Fiesta F1 – Very productive hybrid, uniform, with compact and fine inflorescences. It responds well even if the climatical conditions are not perfect. Recommended for spring and summer culture. It reaches maturity after 80 days from planting. High yields were obtained at Marathon F1 at a density of 50 000 pl/ha and the lowest yields were obtained at Belstar variety at a density of 40 000 pl/ha.

REFERENCES