Section 3: Food and Environmental Sciences

AZ OLTOTT SÁRGADINNYE MENNYISÉGI ÉS MINŐSÉGI VÁLTOZÁSAI AZ EGYES FAJTATÍPUSOKBAN

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ABSTRACT – Quantitative and Qualitative Changes in Greafted Muskmalon Varieties

Nowadays in connection with the healthy nutrition the importance of the consumption of vegetables and fruits is increasingly emphasized, as they are rich in vitamins and antioxidants. Among the other vegetables melons play a vital role in our nutrition. In melon production grafted transplants better and better will be used. Grafting has a lot of advantages, in watermelon well, in muskmelon less documented. Hence in our trial we investigated the effects of grafting in muskmelon production. In our experiment in year 2008, we used 2 muskmelon varieties (*Centro* and *London*) grafted with 5 different squash rootstock (*Beton, Kazako, No.3, RS 841 Improved, Strongtosa)*, growed in open filed condition with intensive technologie (soil covering, dripping irrigation, low tunnel covering). The grafted melons were planted on the 20th of April, with 160x120cm spacing (0,52 plant/ m^2). The experiment was carried out in two repetitions, in small parcels, and in block design. We measured the quantity of the yield (kg/m^2) and the quality of the fruits in the view of the internal features like antioxidant content.

The results showed in all grafting- combination higher total yield and we have concluded that grafting can also improve the antioxidant content of the fruits. Data show that *Kazako* rootstock resulted the highest antioxidant-content in *London* variety. By *Centro* variety we measured significant higher quantitative and qualitative values with *Beton* rootstock.

During the laboratory analysis we concluded that a rootstock has different effect on a variety. Considering the results we can say that it is very important to choose adecvate rootstock for a muskmelon variety.

Keywords: grafting, muskmelon, rootstock, yield, antioxidant-content