

RESEARCH CONCERNING THE PLANTS DENSITY OF THREE CUCUMBERS HYBRIDS WITH HALF-LONG FRUIT CULTIVATED IN GREENHOUSES

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SUMMARY

Among the greenhouse cultures, cucumbers represent the second species as importance both as cultivated surfaces and from economical point of view. Especially in the Ist cycle of culture besides the long fruit hybrids, half-long fruit hybrids are cultivated.

In the experience performed during 2006 year, at vegetable growing department from USAMV Cluj-Napoca, three cucumber hybrids with half-long fruit (Dinero F₁, Nile F₁ and Santana F₁), cultivated at two densities (18.000 respectively 27.000 plants per hectare) were took in study. By combination of two experimental factors took in the study, 6 experimental variants resulted.

The hybrid which obtained the highest early yield (recorded till 31 of May) is Nile F₁ with 6,95 kg/m². Plants density of 27.000 plants per hectare determines the getting of very significant positive early yield in comparison with density of 18.000 plants per hectare.

Under the combined influence of experimental factors, Nile F₁ hybrid, both at 18.000 plants per hectare and at 27.000 plants per hectare density, alongside Santana hybrid at 27.000 plants per hectare density, obtain distinct significant yield efficiencies in comparison with the experimental witness (Dinero F₁, 18.000 plants per hectare).

Regarding the total yield Nile F₁ and Santana F₁ hybrids record yield differences very significant positive in comparison with Dinero F₁. As well the density of 27.000 plants per hectare assures very significant total yield efficiencies in comparison with the density of 18.000 plants per hectare.

The highest total yields were obtained by Nile F₁ with 11,67 kg/m² and Santana F₁ with 11,62 kg/m² cultivated at 27.000 plants per hectare density.

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