

Establishment of Some Technological Sequences for Medium-Long Fruit Cucumbers Cultivated in Greenhouses

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SUMMARY

In the experiment effectuated in 2007, at the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, in a “Venlo” type greenhouse, the plant density and fructification managing on half long fruit cucumbers yield were studied. Observations regarding early and total yield as well as fruit commercial quality have been done. In the experience was used Alamir F₁, a cucumber hybrid produced by Dutch Nunhems company. A bifactorial experience was organized: Factor A – plant density with 2 graduations: a₁ – 16000 plants/ha; a₂ – 24000 plants/ha; and Factor B – fructification managing with 2 graduations: b₁ – fructification on main stem; b₂ – fructification on main stem and on fruit bearing springs. Variants with 24000 plants/ha density recorded yield increases about 52.4% for early yield and 44.3% for total yield comparative with variants with 16000 plants/ha density. Fructification managing influenced both early and total yield, differences of production between variants with fructification on main stem and on fruit bearing springs given the control (fructification on main stem) were significant respectively very significant. The combined influence of both factors influenced both early and total yield, the best results were obtained by variants with 24000 plants/ha irrespective of the fructification managing. Commercial quality of fruits was not significantly influenced neither by plant density nor fructification managing, the percent of first quality fruits from the total was between 68.94% and 74.72%.

Keywords: density, fructification, *Cucumis sativus*

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