## Influence of the Culture Technology over the Quality and Quantity of the Pepper Seeds Yield

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## **SUMMARY**

Ensuring the necessary quantities of biological material of the valuable hybrids and types for the production, while keeping their initial traits, implies permanently applying certain measures achieved on scientifical grounds, depending on the biological particularities of the species and cultivars (type or hybrid). The experience aims to asses the level of the seeds' productions depending on the number of fruits on the plant – between 3 and 7 fruits (Cavero et al., 1995; Demir, 1991; Ozlem and Eser, 2007)), and the dose of fertilizer used for one hectare – two types of fertilization – the equivalent of N125:P<sub>2</sub>O<sub>5</sub>130:K<sub>2</sub>O160:Mg45 kg/ha, and N175:P<sub>2</sub>O<sub>5</sub>180:K<sub>2</sub>O200:Mg65 kg/ha, aiming to establish some technological intervention solutions for the purpose of increasing the seeds' quantity and quality as well as the competitiveness of their production technologies. The biological material represented by the seed from two types of sweet pepper, namely Asteroid type and Cornel type, was studied in comparative plots for evaluation, layered by randomized blocks method, in four repetitions. There were biometric determinations made in order to establish the seed quantity depending on the number of fruits on the plant and the applied dose of fertilizer. The results were studied by applying the double variance analysis. There were obtained different productions starting from 84.25 kg seed/hectare, in the variant considered as control (without limiting the number of fruits on the plant), 138.25 kg seed/hectare (six fruits on the plant, first fertilization variant), up to 144.00 kg seed/hectare (six fruits on the plant, second fertilization variant). The differences were insignificant between the two fertilization variants applied, as well as between the control variant and the variant with seven fruits on the plant. The very significant difference between the control variant and the variant with six fruits on the plant, recommends, for the seed production cultures of sweet peppers, the limitation of the fructification to six fruits on the plant as well as the first fertilization variant.

**Keywords**: pepper, fruit position, seed quality, production

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