



УНИВЕРЗИТЕТ У ПРИШТИНИ
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SIMPOZIЈUM SA MEDJUNARODNIM UCEŠĆEM

**UNAPREDJENJE POLJOPRIVREDNE PROIZVODNJE NA TERITORIJI
KOSOVA I METOHIЈE**

Vrnjacka Banja, 26 -29 jun, 2006

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UTICAJ NAČINA REPRODUKCIJE NA FENOTIP F₁ HIBRIDA KROMPIRA

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Analiziran je uticaj dva načina reprodukcije, seksualnim putem i vegetativnom propagacijom, na fenotipske vrednosti F₁ hibrida krompira. Ispitivana je populacija od 150 genotipova dobijena iz ukrštanja dve holandske sorte (Cosmos i Van Gogh). Istraživanja su sprovedena u savremenom mrežarniku Centra za krompir u Guči tokom dve godine. U prvog godini su proučavani sejanci, a u drugoj godini klonovi. Sejanci i klonovi F₁ generacije su se značajno razlikovali po vrednostima tri proučavane osobine: broj listova, ukupna površina listova i prinos krtola po biljci. Fenotipske vrednosti druge tri proučavane osobine (prosečna površina lista, sadržaj hlorofila u listu i žetveni indeks) bile su slične kod F₁ sejanaca i klonova. Zaključeno je da način reprodukcije ispoljava značajan uticaj na neke fenotipske karakteristike F₁ hibrida krompira. Međutim, iznenađujuće je da način reprodukcije nije uticao na odnos između šest proučavanih osobina. Vrednosti prostih koeficijenata korelacije između svih šest osobina bili su bile slične kod sejanaca i klonova.

INFLUENCE OF REPRODUCTIVE PATHWAY ON THE PHENOTYPE OF F₁ POTATO HYBRIDS

The influence of two reproductive pathways: sexual reproduction and vegetative propagation, on the phenotypic values of F₁ potato hybrids was analyzed. Population of 150 genotypes obtained after crossing of two Dutch varieties (Cosmos and Van Gogh) was investigated. Investigations were conducted in contemporary net house of Potato Research Center at Guča during two years. Seedlings were investigated in the first year while clones were investigated in the second year. Values of three studied traits (leaf number per plant, total leaf area of plant and tuber yield per plant) differed significantly between F₁ seedling and clones. Phenotypic values of the other three studied traits (single leaf area, chlorophyll content in leaves and harvest index) were similar between F₁ seedling and clones. It was concluded reproductive pathway had the great influence on some phenotype characteristics of F₁ potato hybrids. Surprisingly, reproductive pathway had no influence on the relationships between six studied traits. The values of simple correlation coefficients among all six traits were similar in seedlings and clones.