

CATALYTIC EFFECT OF EXTRACTS OF BLACK CUMIN AND SWEET FENNEL SEEDLINGS ON THE SPECIFICATIONS OF THE SOME GENOTYPES OF PEPPER

(*Capsicum annuum* L.).

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ABSTRACT

This study was conducted in the fields of the Faculty of Agriculture \ Diyala University in the winter season 2012 \ 2013 to investigate the effectiveness of some plant extracts water in recipes growth of seedlings of four genotypes of pepper in the experience of a victorial included workers ;The first: genotypes where used four hybrids of crop peppers are E41 . Louay , Denver and Gedeon. The second factor is the plant extracts included water extracts of black cumin concentration of 0.05 and an aqueous extract of the seeds of the sweet fennel concentration of 0.05 and a combination aqueous extract of the seeds of the black cumin and sweet fennel 1:1 concentration of 0.05 distilled water and the treatment comparison (without soak workshops), according to the design of randomized Full (RCBD) and three replications.

Soak the seeds for a period of twenty-four hours in the water extracts and then planted in plastic dishes capacity Forty seedlings using peat moss as a medium transplantation, and a week after the integration of germination was sprayed transactions themselves with the same tripe first and then re-spray again after a week of spray first, tested significant differences between averages for recipes according to test less significant difference LSD and at the level of probability 0.05. The research includes the study of seedlings specifications included; along the seedling and the seedling stem diameter and number of leaves \ seedlings and the number of nodes \ seedlings and root length.

The results showed that seedlings genotypes Gedeon and Louay outperformed significantly in recipes along the seedling, stem diameter, number of leaves and root length reaching them 19.77, 18.40 cm and 5.234, 5.102 mm and 13.52, 13.60 and paper \ seedlings and 8.81, 8.59 cm, respectively. While the superiority of genotype Gedeon on the rest of the decade, the number of genotypes reached 10.32 knots \ seedlings. Distinguish the combination extract, black cumin and sweet fennel in most specifications seedlings where he scored the highest length of the seedlings was 21.98 cm and the best Qatar leg 5.846 mm and the largest number of papers 14.87 paper and more number of nodes 11.85 knots and the longest root was 10.41 cm.

Keywords: pepper, botanical extracts, black bean, bean, sweet seedlings.

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