INFLUENCE OF IRRIGATION REGIMES AND GROWTH REGULATORS ON THE PRODUCTIVITY OF SEEDING PEAS IN THE TERSKO-SULAK SUB-PROVINCE OF DAGESTAN

M.S. MUSAEV, A.A. MAGOMEDOVA, Z.M. MUSAEVA

FSBEI HE "Dagestan State Agrarian University named after M. M. Dzhambulatov"
367032, RD, Makhachkala, 180 M. Gadzhiev str.
E-mail: priem.daggau@mail.ru

The article highlights the results of studying the influence of the irrigation regime and growth regulators on the productivity of the Fokor cultivar. As a result, it was revealed that on average for 2018-2019, the leaf area of the above variety increased by 21.3%, against the background of the irrigation regime, which provides for the organization of irrigation with a pre-irrigation threshold of 80% HB. In the variant with a humidity of 70% HB, the increase was 16.4%. The applied growth regulators also influenced this indicator. Thus, in comparison with the control, when treated with the Albit regulator, the leaf surface increased in the variants with irrigation regimes, respectively, by 15.2; 22.0 and 19.9%, and on the variant with the Siliplant regulator - by 10.6; 16.6 and 16.0%. A similar situation was observed for other indicators of photosynthetic activity. The maximum yield, at the level of 3.33 t/ha, was formed by the Fokor cultivar with a pre-irrigation threshold of 80% HB, which is 41.1 and 13.6% higher than the options with thresholds of 60 and 70% HB, respectively. The applied growth regulators contributed to an increase in the yield of peas, and the maximum data were observed on plots with the Albit regulator. The yield on this option, in comparison with the control, for options with irrigation regimes increased by 26.6; 24.2; 22.2%, and in comparison with the data of the Siliplant regulator, respectively 9.2; 8.7; 7.4%.

Keywords: irrigated zone of Dagestan, sowing peas, Fokor, irrigation regime, growth regulator, yield.

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Information about the authors:

Musaev Makhach Saybulaevich, postgraduate student of the Department of Land Management and Cadastres of the Federal State Budgetary Educational Institution of Higher Education "Dagestan State Agrarian University named after MM Dzhambulatov".

367032, RD, Makhachkala, 180 M. Gadzhiev str.
E-mail: musaev-15@mail.ru

Magomedova Aminat Akhmedovna, Candidate of Agricultural Sciences, Associate Professor of the Department of Land Management and Cadastres of the Federal State Budgetary Educational Institution of Higher Education "Dagestan State Agrarian University named after M.M. Dzhambulatov".

367032, RD, Makhachkala, 180 M. Gadzhiev str.
E-mail: daggau_aminat@mail.ru

Musaeva Zarema Magomedovna, Candidate of Agricultural Sciences, Associate Professor of the Department of Land Management and Cadastres of the Federal State Budgetary Educational Institution of Higher Education "Dagestan State Agrarian University named after M. M. Dzhambulatov".

367032, RD, Makhachkala, 180 M. Gadzhiev str.
E-mail: zaremka_76@mail.ru