

COMPARATIVE EFFICIENCY OF VARIETIES OF THE SEEDING LATHYRUS IN THE CONDITIONS OF THE FOOTHILL PROVINCE OF DAGESTAN REPUBLIC

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The article presents the results of research on the development of technology elements for cultivating lathyrus ranch varieties in the conditions of Foothill Dagestan. As a result, it was found that in the variants with growth regulators Rizotorfin and Albit, a reduction in the growing season of varieties was observed. The greatest data on the photosynthetic activity of varieties were recorded during treatment with growth regulators and an ordinary method of sowing with a row spacing of 0,30 m. For example, the leaf area and net productivity of photosynthesis against the background of the use of growth regulators Rizotorfin and Albit increased on average by varieties by 3.7-6.9 and 6.3 -12.4%. The increase in these indicators in comparison with the row-sowing method with a row spacing of 0,15 m and with a wide-row method with a width of 0,45 m, on the variant with a row-sowing with a width of 0,30 m was 9.9-8.3, respectively; 5.2-5.4 and 14.7-15.0; 11.3-7.3%. Among the studied varieties, the maximum data on photosynthetic activity was observed in the Mramornaya variety. The most effective was the variant with the use of the growth regulator Albit, where the yield of varieties increased in comparison with the control and treatment with the regulator Rizotorfin by 16.8 and 8.6%, respectively. Of the sowing methods, the most preferable was the row method with a row spacing of 0,30 m, where, on average for varieties and regulators, the yield was higher than the first and third options, respectively, by 14.8 and 10.4%. The highest yield was provided by the variety Mramornaya, the increase in comparison with the variety Racheyka on average in terms of sowing methods and variants with growth regulators was 5.5%.

Keywords: Foothill sub-province of Dagestan, leguminous crops, sowing rank, sowing method, varieties, growth regulators, photo-synthetic activity, yield.

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