

COMPARATIVE PRODUCTIVITY OF CHICKPEA VARIETIES IN IRRIGATED CONDITIONS OF PLAIN DAGESTAN

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In order to develop elements of the technology for cultivating chickpea varieties Volgogradskiy 10 (standard), Privo 1, Vega in the irrigated planes zone of Dagestan, a field experiment was laid in 2019. On average, for 2019-2020, fairly high rates of photosynthetic activity of crops were observed in the Vega variety. So, on average, according to the options with irrigation regimes, the leaf surface in the control and in the option with the growth regulator Albit was 23.5 and 24.5 thousand m² / ha. On crops treated with the growth regulator Albit, the leaf area of chickpea cultivars increased. So, on average for varieties and options with irrigation regimes, the leaf surface area increased by 4.5% when treated with the Albit regulator. Against the background of pre-irrigation moistening of 80% HB, the leaf surface area was significant. Approximately the same dynamics was also noted for other indicators of photosynthetic activity of chickpea cultivars. Studies have shown that among the studied chickpea varieties, the highest yield was provided by the Vega variety. Compared to varieties Volgogradskiy 10 and Privo, the yield of this variety was higher on the control variant (without treatment with growth regulators), as well as on plots with the Albit regulator, respectively, by 44.6-20.4 and 30.8-13.1%, respectively. The highest productivity of the chickpea cultivar was formed on the variant with a pre-irrigation threshold of 80% HB. The difference in the yield of the above varieties, in comparison with the variants of 60 and 70% HB, was 34.4, respectively; 31.7; 34.5 & 16.8; 15.1; 18.8%.

Keywords: Republic of Dagestan, Tersko-Sulakskaya subprovince, chickpea, variety, irrigation regime, water consumption, growth regulator, productivity.

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