

# VARIETY TEST RESULTS OF AN EXPERIMENTAL CORN HYBRID

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*The most important step in the evaluation of the starting material is the evaluation in the analysis crosses. This paper presents the results of the testing of self-selection corn hybrids obtained in topcross crosses, in a control nursery, carried out at the experimental site of the Institute of Agriculture of the Kabardin-Balkar Scientific Center of the Russian Academy of Sciences in 2019. 84 experimental hybrid studies have been studied according to the standards. The most productive hybrids were defined, characterized by good moisture removal and grain yield. According to the results of the tests in the control nursery, 9 hybrid combinations exceeded the standards for harvesting humidity and grain yield.*

**Keywords:** corn, hybrids, hybrid combinations, research, variety testing, control nursery, grain yield.

## REFERENCES

1. Sotchenko V.S. *Rol' kukuruzy v povyshenii prodovol'stvennoy bezopasnosti strany* [The role of corn in improving the food security of the country] // *Vestnik RAN* [Bulletin of the Russian Academy of Sciences]. 2015.V. 85. No. 1. Pp. 12-14.
2. Sotchenko V.S. *Perspektivy vzdelyvaniya kukuruzy dlya proizvodstva vysokoenergeticheskikh kormov* [Prospects for the cultivation of corn for the production of high-energy feed] // *Selektsiya i semenovodstvo. Tekhnologiya vzdelyvaniya kukuruzy* [Selection and seed production. Corn cultivation technology]. Pyatigorsk, 2009. Pp. 12-16.
3. Loginova A.M., Gubin S.V. *Izucheniye novykh inbrednykh liniy kukuruzy omskoy selektsii* [The study of new inbred maize lines of Omsk selection] // *Kukuruza i sorgo* [Corn and sorghum]. 2012. No. 3. Pp. 15-17.
4. Orlyansky N.A. *Metodika vydeleniya skorospelykh gibridov kukuruzy dlya severnykh regionov Rossii* [Methods of isolating early-ripening corn hybrids for the northern regions of Russia] // *Selektsiya, semenovodstvo. Tekhnologiya vzdelyvaniya kukuruzy* [Selection, seed production. Corn cultivation technology]. Pyatigorsk, 2012. P. 42.
5. Azubekov L.Kh., Urusov A.K. *Pamyatka kukuruzovoda* [Memo of the corn breeder]. Nalchik, 2012. P. 4.
6. Dosphehov B.A. *Metodika polevogo opyta* [Methods of field experience]. M.: Kolos, 1979. P. 416.
7. *Metodika gosudarstvennogo sortoispytaniya sel'skokhozyaystvennykh kul'tur* [Methodology of state variety testing of crops]. Issue 2. Moscow, 1989. Pp. 42, 54.

8. Sotchenko V.S. *Selektsiya i semenovodstvo rannespelykh i srednerannikh gibridov kukuruzy: avtoref. dis. ... doktora s.-kh. Nauk* [Breeding and seed production of early ripening and mid-early maize hybrids: abstract. dis. ... doctors of agricultural sciences]. SPb., 1992. P. 48.