

## ECONOMIC EFFICIENCY APPLICATION OF CHEMICAL PLANT PROTECTION AGAINST WEED VEGETATION IN CROPS IN KABARDINO-BALKARIA CROPS

A.M. KAGERMAZOV, A.V. KHACHIDOGOV

Institute of Agriculture –  
branch of Federal state budget scientific establishment "Federal scientific center  
"Kabardin-Balkar Scientific Center of the Russian Academy of Sciences"  
360004, KBR, Nalchik, 224, Kirov street  
kbniish2007@yandex.ru.ru

*Due to the increasing competition in the grain market, properly organized breeding and seed production work is one of the main and important areas, since this process depends on further obtaining promising, high-yielding varieties and hybrids of agricultural crops resistant to biotic and abiotic environmental factors.*

*Corn breeding and seed production is one of the main directions of the thematic plan of the Institute of Agriculture of the Kabardino-Balkarian Scientific Center of the Russian Academy of Sciences (Institute of Agricultural Sciences KBNC RAS).*

*The aim of the work is to study the efficiency of using tank mixtures of promising herbicides (soil, post-emergence) in the cultivation of corn for grain, using the example of the Caucasus maize hybrid of 307 MB.*

*This article presents the two-year results of scientific research (2017-2018) on the use of chemical remedies (soil and post-emergence) herbicides of various spectra of action on crops of the Caucasus maize hybrid 307 MV in the foothill zone of Kabardino-Balkaria (NPO No. 1, p. P Nartan).*

*The differences in susceptibility of certain types of weeds, to the active substances used in the experience of drugs. In time, the chemical work carried out both soil and post-harvest preparations play an important role for the normal growth and development of corn plants. The experimental data obtained indicate that under conditions of weed infestation of maize in the foothill zone, annual weeds (both cereal and dicotyledonous) had the most effective effect of the drug Elumis, MD at a dose of 1.7 l / ha providing the most complete protection of the cultivated plant.*

**Keywords:** maize, hybrid, weed vegetation, herbicide, yield.

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**Kagermazov Alan Mukhamedovich**, Candidate of agricultural sciences, senior staff scientist, Institute of Agriculture – a branch of the Kabardino-Balkarian Scientific Center of the Russian Academy of Sciences.

360004, KBR, Nalchik, Kirov street, 224.

Ph. 8-903-496-83-90.

E-mail: kagermazov.alan@ yandex.ru.

**Khachidogov Azamat Valerievich**, Candidate of agricultural Sciences, senior staff scientist, Institute of Agriculture - branch of the Kabardino-Balkarian Scientific Center of the Russian Academy of Sciences.

360004, KBR, Nalchik, Kirov street, 224.

Ph. 8-962-650-22-79.

E-mail: Azamat.xa@ mail. ru.