

SCIENTIFICALLY SUBSTANTIATED TECHNOLOGY OF CORN PRODUCTION

A.Z. KUSHKHABIEV, 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

Corn requires a well-cultivated soil, which provides high-quality placement (seedbed) of seeds during sowing and obtaining timely seedlings, as well as ensures the unhindered development of the root system in the arable layer. Only in such a soil can corn form a powerful root system. In this regard, the cultivation of previous crops must take care of the preservation and improvement of soil structure. An important role is played by the introduction of organic - mineral fertilizers, high-quality processing and the prevention of soil compaction with the wheel – or track systems of tractors, combines and other vehicles. The soil structure of the fields allocated directly for maize should be improved by performing all the necessary operations during the main and pre-sowing treatment.

In this article we consider two types of minimum tillage applied in the fields of the Institute of Agriculture, of the KBSC of the Russian Academy of Sciences, compliance with which provides for obtaining stable yields of corn grain, increasing soil fertility, fighting weeds, diseases, creating conditions for the accumulation of moisture in the soil, increasing the availability of mineral nutrition of plants.

Keywords: corn, crop rotation, tillage, sowing.

Kushkhabiev Aslan Zalimgerievich, Candidate of agricultural sciences, senior staff scientist of Chemical analysis laboratory of the Institute of Agriculture, branch of the Kabardin-Balkar Scientific Center of the Russian Academy of Sciences.

360004, KBR, Nalchik, Kirov street, 224.

Ph. 8-903-425-95-22.

E-mail: kbniish2007@yandex.ru

Kagermazov Alan Mukhamedovich, Candidate of agricultural sciences, staff scientist of the Laboratory of corn breeding and seed production of the Institute of Agriculture - a branch of the Kabardin-Balkar 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 Valeryevich, Candidate of agricultural sciences, staff scientist of the Laboratory of corn breeding and seed production of the Institute of Agriculture - a branch of the Kabardin-Balkar 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