RESEARCHES CONCERNING THE IMPORTANCE OF THE AGROFUND AS WELL AS OF THE HYBRID IN OBTAINING HIGH PRODUCTION AT THE MAIZE CULTIVATED ON THE CAMBIC CERNOSIUM SOIL FROM PORTARESTI – JUD. DOLJ

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SUMMARY

The researches made in our country as well as in others show that through applying a differentiated agrotechniques depending on the type of soil, on the preliminary plant, on the hybrid, on the technological links, etc., the production of maize/ha, both qualitative and quantitative can be considerably increased.

Material and Method. The research have been made on a cambic cernosium soil, with a high natural fertility and a good cultural situation. There were cultivated 8 – 10 maize hybrids both simple and double, on four levels of fertilization. The preparation of the field for sowing was made respecting concern the classical technological link. The fertilizers containing phosphorus were applied under the autumn ploughland meanwhile the ones with nitrogen, 2/3 in spring, before sowing and 1/3 at the IIIrd mechanical reproduction. The production was calculated at 15% humidity, through the method of the option.

Results and Discussion. The studied factors have directly influenced the level of achieved productions, fact praised by the obtained dates. The majority of cultivated hybrids proved to be extremely valuable, achieving productions of 8640 – 13685 kg beans/ha STAS.

Unlike hybrid PR39D81 (simple hybrid, taken as witness), the other presented hybrids have given important production increases (1310 – 5045 kg/ha, respectively 115 – 158 to). Regarding fertilization, the moderated or large agrofunds of nitrogen, on fund P_{80}, have increased the production with 870-1650 kg, in comparison to the agrofund N_{60} kg/ha s.a. The highest increase – 1650 kg/ha – was achieved with N_{120} kg/ha s.a. The agrofund N_{240} kg/ha s.a. has given the lowest production increase, of 870 kg/ha.

CONCLUSIONS
1. The researches made at S.C. Comcerealis Dolj – Portaresti farm, show that can be obtained productions of 8640 – 13685 kg maize beans/ha, if to this culture is applied an adequate technology.
2. The cultivated hybrids have given the highest productions on the agrofund N_{120}-N_{180} kg/ha s.a. and on a fund of P_{60} kg/ha s.a.

BIBLIOGRAPHY