

ECONOMIC EFFICIENCY OF INDUSTRIAL CROSSING OF RED STEPPE CATTLE WITH PUREBRED BULLS OF HEREFORD BREED IN JSC “PLEMZAVOD “STEPNOY”, PROKHLADNENSKY DISTRICT OF KBR

A.I. OTAROV

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

The article presents data on the results of industrial crossing of cows of the red steppe breed with purebred Hereford breed bulls in the steppe zone of the CBD, while evaluating meat productivity and economic efficiency of crossbred young genotypes.

Two groups of young stock were formed for the experiment from birth. The first group of 10 bulls of the red steppe breed was the control group, the second group of the same number of hybrids of the first generation was the experimental one. The experiment lasted for 18 months.

At the same time, the average daily gain in live weight for the fattening period of one head in the crossbreeds was 730 g, and in the control group 620 g, the difference was 110g in favor of the experimental one, which is 15,1% more. The difference in the increment during the fattening period between the mixtures and their analogues is significant ($p < 0.99$). At the control slaughter of three animals from each group at 18 months of age, the animals of the experimental group were superior to their peers of the red steppe breed: pre-slaughter weight by 41,4 kg, by mass of steam carcass – 31,6 kg, by yield by 2,5%, slaughter weight by 34,8 kg and at a slaughter yield of 3,0%.

For 18 months of growing the cost of 100 kg. increase in live weight in the group of hybrids is 599,6 rubles, which is 7,7% cheaper than in the group of red steppe animals. The selling value of one head of hybrids at the age of 18 months was more by 4986 rubles, or 9,7% higher compared to the cost of one head of the red steppe breed.

Keywords: beef cattle breeding, bull-calves, hybrids, red steppe breed, Hereford breed, steppe zone, bull-calves productivity, growth and development.

REFERENCES

1. Cherkesov D.L. *Razvitie myasnogo skotovodstva v Rossii* [The development of meat cattle breeding in Russia] // *Myasnaya industriya* [Meat industry]. 2013. No. 5. P. 44-45.
2. Selionova M.N., Bobrysheva G.T., Grebennikov V.G. *Sovremennoe sostoyanie i puti razvitiya myasnogo skotovodstva v Stavropol'skom krae* [The current state and the development of meat cattle breeding in the Stavropol Territory] // *Bulletin of beef cattle VNIIMS*. 2016. № 2 (94). Pp. 120-124.
3. Kayumov F.G. *Myasnoe skotovodstvo: otechestvennye porody i tipy, plemennaya rabota, organizaciya vosproizvodstva skota: monografiya* [Meat cattle breeding: domestic breeds and types, breeding work, organization of livestock reproduction: monograph]. M.: Bulletin of the Russian Academy of Agricultural Sciences, 2014. 216 p.
4. Dubovskova M.P., Vozheikin A.M., Gerasimov M.P., Kolpakov V.M. *Sovershenstvovanie produktivnosti skota gerefordskoj porody* [Improving the productivity of Hereford breed livestock] // *Bulletin of beef cattle VNIIMS*. 2016. № 3 (95). Pp. 26-33.
5. Amerkhanov Kh.A., Kayumov F.G., Dubovskova M.P., Belousov A.M. *Geneticheskie resursy gerefordskoj, kazahskoj belogolovoj porody i ih vzaimodejstvie v selekcii* [Genetic resources of the Hereford, Kazakh white-headed breed and their interaction in breeding]. M.: Rosinformagrotekh, 2010. 352 p.

6. Gerasimov N.P., Zaikina E.V. *Harakteristika gerefordskih bychkov raznyh ekologo-geneticheskikh grupp po vesovomu i linejnomu rostu* [Characteristics of the Hereford bull-calves of different ecological and genetic groups by weight and linear growth] // News of the Orenburg State Agrarian University. 2011. Vol. 4. No. 32-1. Pp. 147-149.

7. Mazurovsky L.Z., Gerasimov N.P., Zaikina E.V. *Plemennaya cennost' i adaptacionnye kachestva bychkov gerefordskoj porody raznyh ekologo-geneticheskikh grupp* [Breeding value and adaptive qualities of the bull-calves of the Hereford breed of different ecological-genetic groups] // Bulletin of beef cattle breeding VNIIMS. 2010. Issue 63 (1). Pp. 36-44.

8. Otarov A.I. *Dinamika chislennosti skota i proizvodstvo govyadiny v ubojnoj masse za 2015-2016 gody po SKFO v sravnitel'nom aspekte s Yuzhnym FO i RF* [Dynamics of livestock numbers and production of beef in a slaughter mass for the years 2015-2016 in the North Caucasus Federal District in a comparative aspect with the Southern Federal District and the Russian Federation] // News of the KBSC of RAS. 2018. No. 4. P. 101-106.

9. Otarov A.I., Kayumov F.G., Tretyakova R.F. *Effektivnost' otkorma i adaptacionnye sposobnosti kalmyckih i shvickih bychkov v gornyh usloviyah Kabardino-Balkarskoj Respubliki* [Efficiency of fattening and adaptive abilities of Kalmyk and Schwyz bull calves in the mountainous conditions of the Kabardin-Balkar Republic] // *Zhivotnovodstvo i kormoproizvodstvo* [Livestock and fodder production]. Federal Scientific Center for Biological Systems and Agrotechnology RAS. 2018. T. 101. No. 2. P. 72-78.

10. Ovsyannikov A.N. *Osnovy opytnogo dela v zhivotnovodstve* [Fundamentals of experimental work in animal husbandry]. M.: Kolos, 1976. P. 304.

11. Levakhin V.I., Sarkenov B.A., Poberukhin M.M. *Adaptacionnye sposobnosti i produktivnost' chistoporodnyh i pomesnyh bychkov pri razlichnyh tekhnologiyah vyrashchivaniya* [Adaptive abilities and productivity of purebred and crossbred bull-calves with different growing technologies] // *Myasnoe i molochnoe skotovodstvo* [Meat and Dairy Cattle Breeding]. 2015. No. 4. P. 5-8.

Otarov Amash Iskhakovich, Candidate of Veterinary Sciences, senior staff scientist, Animal Production and Feed Production Laboratory, Institute of Agriculture, KBSC of RAS.

360004, KBR, Nalchik, 224 Kirov street.

Ph. 8-928-079-10-53.

E-mail: kbniish2007@yandex.ru