

## **GROWING BROILER CHICKENS IN BATTERIES FOR USE CELLULAR FEEDERS DIFFERENT MANUFACTURERS**

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*In the modern broiler production comparing growing broiler chickens cross "Arbor Aykres" and "Iza F-15" for the use of cell batteries TBB-produced by AB "PA techno" manned troughs «KoChiBo» own production company and "Roksel."*

***Broiler chickens, feeding, breeding, live weight, cross, cellular battery***

One of the modern enterprise, providing the poultry industry in Ukraine and around the world high-tech cage equipment, is TEXHA Production Association (Ukraine).

TEXHA Production Association produces equipment for maintenance egg and poultry meat, including broiler chickens. For completing feeding feeders used by other manufacturers and own production.

Our study was conducted to compare the efficacy of growing broiler chickens in cellular batteries equipped with feeders manufactured by TEXHA Production Association and Roxell.

For research use broiler crosses Hubbard Isa F-15 and Arbor Acres. Chickens were grown in four-cellular batteries TBB-AB production TEXHA Production Association. For feeding birds in the experimental groups were used feeders «KoChiBo» produced by TEXHA Production Association. The control group used feeders of foreign manufacturers who have a similar structure. Battery cages equipped with drip pan nipple drinking bowls. Microclimate in growing broiler poultry answered adopted zoohygienic standards. For feeding birds used full-feed. Length of growing broiler chickens was 42 days.

The first phase was determined crop fullness of chickens a day after landing on growing. This index was 98% for broiler research groups both crosses. This 1% and 2% higher than in the control group chickens cross the Arbor Acres and Hubbard Isa F-15 respectively. In general, larger number of broiler chickens cross Hubbard Isa F-15 (97.5%) in the days age was filled with an fullness crop compared to chickens cross Arbor Acres (97%). Thus, these data indicate a high ability to find and feed intake.

According to the research of live weight broiler chickens cross Arbor Acres found that throughout the growing period it was higher in the experimental group

of birds, that is, the use of feeders «KoChiBo» produced by TEXHA Production Association. The difference with the control group increased with age and was 0.2 ... 3.21%. At the end of growing the live weight of chickens experimental group was 2493 g, control - 2413 g.

Analysis of live weight broiler chickens cross Hubbard Isa F-15 showed that during the whole period of growing it was higher in broiler chickens in the control group, i.e. the use of foreign feeders. Thus, the greatest difference in live weight was at the end of the 5th week of growing - 187 g, or 9.18%, but last week of growing it decreased slightly and amounted to 97 g, or 4.33% compared to the experimental group. Generally found higher levels of live weight broiler chickens cross Arbor Acres compared to the cross Hubbard Isa F-15, at the time of poultry for slaughter difference was 10.66%.

Average daily live weight gain of broiler chickens cross Arbor Acres for the period of growing reached 65.2 g in the experimental group and 63.2 g in the control group; chicken broilers cross Hubbard Isa F-15 had a slightly lower average daily - 58.6 and 54.8 g, respectively.

During the study we have analyzed the uniformity of broiler flocks aged 21, 28 and 35 days. The decrease flock uniformity with age in all experimental groups. The level of uniformity among diverse flock crosses. The highest it has been in the chicken cross Arbor Acres compared to the cross Hubbard Isa F-15 - 83-84% and 77-78% in the experimental group and the 81-82 and 76-77% - in control. Overall, the use of feeders ukrainian production flock uniformity is higher by 1-2%.

Along with body weight and flock uniformity important bird safety. Using highly efficient poultry production only for its high safety. Analysis of experimental data showed that safety of broilers in general was high - 97,5..98,8%. Safety of broiler chickens cross Arbor Acres was 97.5% with no difference between groups. Safety of broiler chickens cross Hubbard Isa F-15 experimental group (using feeders «KoChiBo») was 98.9%, which is 0.1% more than in the control group (98.8%).

In terms of meat out of 1 m<sup>2</sup> of floor note higher values obtained in the experimental group chicken cross Arbor Acres compared with the control - 1.9 kg and chickens in the control group cross Hubbard Isa F-15 compared to research - 0.9 kg. For European efficiency index of growing broiler chickens (EPEF) note the preference cross Arbor Acres - 377.9 to 405.5 and bird control - for the experimental group. When growing broiler chickens cross Hubbard Isa F-15, this ratio was lower - 359.3 - for bird control and 321.3 - for poultry research group.

Overall, therefore, set a higher level of basic indicators of growing broiler chickens cross Arbor Acres compared to the cross Hubbard Isa F-15. When using feeders ukrainian production «KoChiBo» note advantage indicators of fullness

crop in both chickens and crosses all indicators of growing chickens cross Arbor Acres.

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