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EVALUATION OF THE EXISTING SYSTEM OF YOUNG CATTLE FEEDING AT THE FATTENING UNITS OF KYIV REGION

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Beef production in Ukraine is rapidly decreasing, so at the present stage it is necessary to use all existing cattle for further fattening. The main task is the search of effective recommendations for solution of feeding conditions problems [1]. As one of the important factors in improving the efficiency of beef production is the organization of a forage farm base, balanced rations, feed analysis and their use [2]. Just these steps can help to achieve average daily increments at the level of 1500 g or more.

Therefore, the purpose of the research was to provide a zoo-technical assessment of the feeding system for industrial intensive technology of young animals rearing of different breeds under conditions of free-stall housing in two farms engaged in fattening.

The type and structure of feeding was studied on the basis of annual feed costs, zoo-technical evaluation was carried out according to generally accepted methods, the actual nutrition of feed was carried

out according to generally accepted methods at the "Center of veterinary diagnostics" LLC in Kyiv (expert report No. 144 / k dated 02.07.2018).

The research was carried out under the conditions of "Chornobayprodservis" LLC (No. 1) and "Skvyra Agro" LLC (No. 2) of the Kyiv region because farms are similar in terms of feeding and keeping animals. Beef production technology should include the production process and technological elements associated with the organization of feed production, feed preparation, feeding systems and the maintenance of cattle during growing and fattening. The main elements of beef production technology used at the farm with detailed explanations are given in Table 1.

Feeding of bulls at fattening units is based on the use of purchased feed, such as: whole milk substitute, wheat straw, concentrated (corn grain, wheat, barley) waste from sugar, peanut butter, alcohol and confectionery industry.

Table 1

Key elements of beef production technology

| Technology elements | | |
|--------------------------------|--|--|
| | "Chornobayprodservis" LLC (№1) | "Skvyra Agro" LLC (№2) |
| Method of maintenance | Yard housing (premises with pen-feeding yard) | Yard housing (reconstructed premises) |
| Forage preparation for feeding | Straw choppers IC-850, mini-feed mill «Neuero» | Feed mill «Neuero Farm- und Fördertechnik» |
| Distribution of forage | Feed distributor-mixer «Seko Samurai 5» | Feed distributor-mixer «EuroMix I 870» |
| Watering: | | |
| -in the premises | Automatic drinking bowls AP-1A | Automatic drinking bowls AP-1A |
| -at the pen-feeding yard | Throwing over group drinking bowl | - |
| Removal of manure | Bulldozer canopy BN-1 | Bulldozer canopy BN-1 |

Table 2

Livestock production and animal productivity

| Indicator | "Chornobayprodservis" LLC (№1) | "Skvyra Agro" LLC (№2) |
|------------------------------------|--------------------------------|------------------------|
| Gross production of beef, centner | 5047,0 | 4854,0 |
| Average daily gain for the period: | - | - |
| Lactic | 800 | 785 |
| Growing | 990 | 955 |
| Fattening | 1115 | 1050 |

According to the actual nutrition of feed, the rations used in farms have been analyzed. It has been established that in the first farm, the of premises of which were equipped with pen-feeding yards, the increase in feed consumption by 10% of the total mass of daily consumption took place.

The results of the analysis of feed costs during the year indicate a significant use of straw (3-4 centners per head per year). Thanks to the use of this approach to feeding, farms received high daily average increments during three growing periods (Table 2).

Due to balanced and identical feeding at the Chernobayprodservice LLC, the

total beef production constituted 5047 centners, that is 3.8% less than at the "Skvyra Agro" LLC. The costs of feed per 1 centner of growth constituted 780 centners of feed units and 761 centners of feed units respectively.

Thus, the results of the evaluation of the feeding system of young cattle at the farms indicate that it is possible to achieve increments of 200-300 g more at such feed costs.

References:

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