Breeding Quality Indicators of Fleg fix Simmental Bureau Bulls in the Study of Productivity

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ABSTRACT

Genotype and breed characteristics of Maqolada Flekfix simmental zotli bulls were studied. The cows of this breed give less milk compared to the cows of the Holstein breed, but the period of use in the farm is higher.

Keywords: Flexfich purebred cattle, weight, improving bulls, breeding, genotype, growth, family, breed, productivity, development.

Flegfix (red-brown) is a newly created type of Simmental breed, created by the "blood transfusion" method of crossbreeding the Simmental breed with the Holstein breed. Red Holstein blood was transfused once and twice. Simmental breed with Holstein genotype was formed. The cattle of this breed were imported by the farmers of the Republic from 2005-2010. They are being thrown clean. Experiments on obtaining new productive generations from crossbreeding domestically improved cattle with Flegfix Simmental breed were tested.

This breed, like the Swiss breed, is double-yielding, has a robust constitution, and is well adapted to hot climates. The milk yield of cows exceeds 6000 kilograms. Although cows of this breed give less milk than Holstein cows, they have a longer life span. Although it is acceptable to keep cattle of this breed in the areas where Swiss cattle are bred, farmers often bring them to the areas where the Holstein breeds are bred. Because current farmers prefer to feed Flegfix Simmental cattle in technological conditions. The Flegfix Simmental breed has also been transferred to the category of improving cattle, and their bulls are used in the artificial insemination system.

Therefore, we started to study the Flegfix Simmental bulls imported from Germany on the basis of genotype, individual characteristics and sperm productivity evaluation and selection and use in the artificial insemination system. First of all, we selected them according to their genotype. The genetic breeding qualities of the fathers are presented in the table below (Table 1)

Table 1

Superiority of daughters of Flegfix Simmental bulls over their peers in terms of milk yield.

Breeding bulls		His father's nickname	Maternal superiority of daughters relative to their peers in milk production		
Nickname	ИНВ №		Milk yield, kg	Milk fat, kg	Milk protein, kg
Improving leader bulls					
Xeros	894656	Herzilan	+1263	+55	+41

Khubra	612965	Hubraum	+1200	+53	+37
Segox	105814	Sehrgut	+965	+38	+35
X±S			1143±81,1	49±5,0	38±1,5
C_v, %			12,3	18,0	6,9
Improving bulls					
Epigraph	105773	Epical	+1202	+33	+32
Othello	561211	Apollo	+864	+16	+16
Rustic	488942	Ruaef	+496	+13	+27
X±S			854±166,6	21±5,8	25±4,0
C_v, %			33,8	48,2	27,9

The fathers of all bulls under control were evaluated according to the quality of their progeny and transferred to the category of improving bulls. The milk yield of daughters of improving leader and improving bull sires, formed according to the genotype of their fathers, was studied in comparison with their peers. The superiority of sires and daughters in improving leader bulls was equal to 1143 kg in milk, 49 kg in milk fat, 38 kg in milk protein, and in the group of improving bulls, it was 852 kg, 21 and 25 kg

Picture 1. Flegfix Simmental breed, nicknamed Othello, No. 16561211, elite-record class, age 42 months, live weight 910 kg, improving bull

Picture 2. Flegfix Simmental breed number #105773 with epigraph nickname, class elite-record, age 37 months, live weight 950 kg, improving leader bull

Control Flegfix Simmental bulls were obtained from high breeding horses. He must have passed this legacy of fertility on to his sons. Therefore, controlled bulls are rated in the improver category. In order to find out to what extent these qualities can be determined, we determined the productivity and selection indices of bull fathers (table 2

Table 2

Productivity and selection indices of sires of Flegfix simmental bulls

Breeding bulls		Productivity and selection indices of sires					
Nickname	ИНВ №	Productivity (RZM)	Breeding (RZG)	Exterior (RZE)	Somatic cells (RZS)	Exacerbating characteristics (RZN)	Shelf Life (RZR)
Improving leader bulls							
Xeros	894656	128	134	108	96	95	99
Khubra	612965	125	131	109	105	124	92
Segox	105814	126	126	106	107	103	118
X±S		126±0,7	130±1,9	108±0,7	103±3,1	107±7,5	103±6,7
C_v, %		1,0	2,6	1,2	5,2	12,1	11,3
Improving bulls							
Epigraph	105773	127	127	111	107	98	109
Othello	561211	105	121	107	110	109	99
Rustic	488942	109	124	104	108	120	102
X±S		114±6,1	124±1,4	107±1,7	107±0,7	109±5,2	103±2,5
C_v, %		9,4	2,0	2,7	1,2	8,2	4,3

The productivity and selection indices of the sires of bulls are higher than the standard requirements and are characterized by the characteristics of the breed. In particular, the productivity index of the sires of the improving leader bulls is 126%, fertility is 130%, exterior -

108, somatic cells -103, breeding characteristics -107 and life on the farm -103%, while in the group of improving bulls it is 114%, 124, 107, It was 107, 109 and 103%. These indicators indicate their fertility.

Conclusion: Although cows of this breed give less milk compared to cows of Holstein breed, they have a longer life span. Although it is acceptable to keep Flegfix Simmental cattle in areas where Swiss cattle are bred, farmers often bring them to areas where Holstein breeds are bred. Because, in the technological conditions of current farmers, it is effective to feed Flegfix Simmental cattle.

Used literature

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