

DYNAMICS OF GENEALOGICAL STRUCTURE OF LITHUANIAN BLACK AND WHITE CATTLE POPULATION

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Summary. During last decades Lithuanian Black and White cattle were intensively improved by using Dutch, Danish, British, German Black and White cattle breeds and also American and Canadian Holstein - Friesian cattle breed. Using bulls of and their pedigree of described breeds, animals, belonging to these new genealogical groups have spread in the Lithuanian Black and White population. 1990 in the genealogical structure of selected cows, Dutch Black and White cows presented 51.3%, in 2001 only 10.4 % and heifers – 1.7 % as well, bulls of this genotype was 6.2 %. Majority of cows of this genotype belongs to Langer LJ 2523 related group. Only 0.8 % of cows belong to British Friesian genotype. The biggest part of selected cows belongs to the Holstein - Friesian bull lines and to this lines related groups. The number of cows of this genotype was n=46762 (70.0 %), heifers n=30551 (74.1 %), bulls n=209 (91.1 %). The number of cows belonging to the Wis Ideal 933122 line was n=19892 (29.8 %), heifers n=15997 (38.8 %). The number of cows belonging to the ABC R Sovereign 198998 line was n=13535 (20.3 %) and n=5628 (13.7 %) heifers. Bulls of this lines analogous 42.1% and 29.7%. In the genealogical very perspective is Elevation 1491007 related group with n=17518 (26.2 %) cows, n=15960 (38.7 %) heifers and n=88 (39,5 %) bulls. In the genealogical structure of Lithuanian Black and White cattle amount of pedigree of bulls from W.A. Burke Lad 697789 line is increasing. To this line belong 3.9 % cows and 10.9 % heifers.

Because of increase of animals of Holstein genotype in Lithuanian Black and White cattle genealogical structure, it is recommended to conserve the old Dutch type of Lithuanian Black and White cattle.

Keywords: genealogical structure, Dutch Black and White, British Black and White, Holstein.