

THE INFLUENCE OF WEIGHT ON THE PRODUCTIVITY OF I - II - III LACTATION COWS

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Summary. The influence of weight of Lithuanian Black and White cows on their I - II - III lactation productivity was investigated in this work. The investigations were carried out in Practical Instruction and Research Center of Lithuanian veterinary academy. Twenty two heifers with calves were selected. They were weigh on the second month after the first calving and divided in to 6 groups, by 20 kilogram interval of weight. Productivity of I - II - III lactation in the all of groups was observed and average indices of productivity were calculated. The small positive correlation was established between cows productivity and the weight: on the first lactation $r = +0.039$, on the second $r = +0.089$, and on the third $r = +0.068$. The weight of cows increased up to the limit (500-580 kilogram), productivity increased in all three lactations too, and after that began to decrease. On the basis of investigations data the Lithuanian Black and White cows weight in Practical Instruction and Research Center of Lithuanian Veterinary Academy after first calving hasn't exceeded the 580 kilograms, cows weighing over 580 kilograms are not worth keeping in the farm.

Keywords: weight, cows, productivity, lactation, breed, Lithuanian Black and White