

CORRELATION OF BODY DIMENSIONS AND BODY DIMENSION INDEXES IN LITHUANIAN BLACK-AND-WHITE AND RED COWS

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Summary. Fixed coefficients of fenotypical and genetic correlations between the body dimensions and body dimension indexes in Lithuanian Black-and-White and red cows show that individual body dimensions and body dimension indexes had diverse correlations.

Low and positive coefficients of fenotypical correlation between body dimensions and body dimension indexes were fixed in most cows of both breeds.

High and positive coefficients of fenotypical correlations are established in cows of both breeds between brest breadth and brest index ($p < 0,01$) as well as between slantwise length of body and size index ($p < 0,01$). High negative coefficients of fenotypical correlation are established between brest depth and the index of leg length in cows of both breeds.

The correlation coefficients between body dimensions and dimension indexes of body were mostly positive, middle or low in cows of both breeds.

High and positive coefficients of a genetic correlation are established between brest width and the index of leg length ($p < 0,01$) in cows of both breeds, among the height in crest, brest depth and the brest index ($p < 0,01$) in Black-and-White cows and among the height in crest, brest depth, hip breadth, size and compact indexes ($p < 0,01$), brest breadth and size index ($p < 0,01$), brest size and compact index ($p < 0,01$). Middle, positive coefficients of genetic correlation are established between slantwise body length and size index ($p < 0,01$) in cows of both breeds and between the leg length indexes and size ($P < 0,01$).

Keywords: Lithuanian Black-and-White cows, Lithuanian red cows, body dimensions, dimension indexes of body, fenotypical correlation, genetic correlation.