

## LITHUANIAN-BRED TROTTER HORSE BODY MEASUREMENTS, THEIR PHENOTYPE AND GENETIC CORRELATION COEFFICIENTS

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**Summary.** Both body measurement phenotypes and genetic correlation coefficients were calculated for horses entered in the Lithuanian National Breed Registry. It was determined that Orlov Trotter stallions are of a larger body stature than the Russian Trotters. The Orlov Trotter body measurements showed dependable, large and positive phenotype correlation coefficients. The Russian Trotter has a large, positive and dependable correlation coefficient between the height at the withers and the diagonal body length, between the height at the withers and the chest girth, the diagonal body length and the chest girth, the diagonal body length and the fore cannon circumference; a moderate dependable correlation coefficient was found between the chest girth and the fore cannon circumference; and a small positive phenotype correlation coefficient was found between the wither height and the fore cannon circumference. This led to the conclusion that genetic correlation coefficients are positive and minor comparing the body measurements of both Trotter breeds.

**Keywords:** the Orlov Trotter, the Russian Trotter, body measurements, phenotype correlation, genetic correlation coefficients.