

# Evaluation of temperament characteristics of Czechoslovakian Wolfdog in the Czech Republic 1982 – 2004



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## Introduction

The Czechoslovakian Wolfdog is the breed of dog that was bred from crosses between a German Shepherd Dog and wolf, the breed has been listed in the pedigree register since 1982. The aim of this work was to analyze the traits of character.

## Methods

The basis of analyse were data collected from 1031 dogs. The data were collected within the period 1982 – 2004.

The character of an animal has been standardized into 10 categories with a non-linear scale:

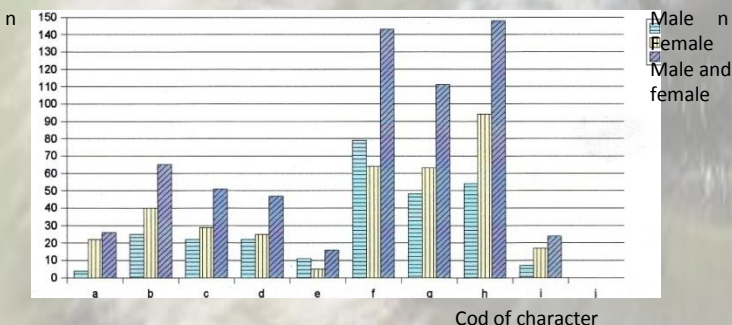
Essentially, it is a clasifikation based on three criteria: strength – resistibility of the nervous system, stability of excitement and inhibition processes, and temperament – activity. The valuation commitee assigns one of ten codes of character Oa – Oj to every individual, following a fixed methodology.

The genetic profit in the observed trait can be attributed especially to positive selection, wich is more intensive in the male part population, i.e. to preference for breeding males with desired character . The selection differential was determined by the difference between the frequency of fathers and mothers desired characters in comparison to the total assessed population.

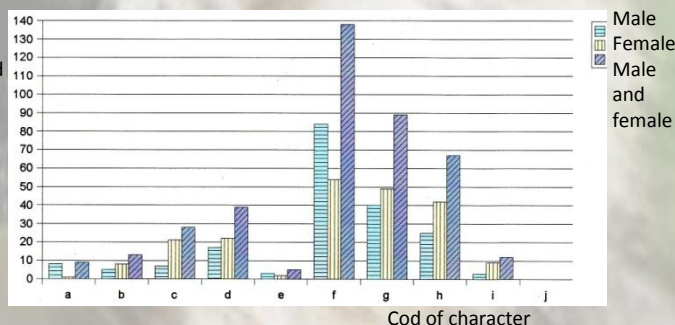
## Results and conclusion

With male selection differential  $d_m = 12\%$  and female one  $d_f = 1\%$ , genetic profit  $16\%$  was achieved during 22 years of breeding, i.e. on an average  $2,6 - 3,2\%$  for a generation (generations overlap each other). This corresponds to the effective heritability value of the observed trait  $40 - 49\%$ , it is to a higher value than ascertained in published cases. This can be explained by a high genetic (additive) variance of the trait, which is in virtue of origin of the breed.

Graph 1: Classification of character 1981 - 1993



Graph 2: Classification of character 1994 - 2004



**Keywords:** Czechoslovakian Wolfdog, behavior, character, breeding, selection