

Evaluation of chosen factors' influence on Black-and-White bull semen features

S u m m a r y

Traits of 1576 ejaculates derived from 25 bulls, which obtained positive results in breeding value evaluation and were allowed to intensive exploitation, constituted the material for the analysis. The influence of age (before and after evaluation), body weight and massiveness index of bulls at the age of 360 days, HF gene share in their genotype as well as interaction between the above mentioned factors were investigated. Ejaculates from older bulls had bigger volume, but worse spermatozoid concentration and lowest share of progressive motion ones in a fresh semen. In spite of that, the percentage of spermatozoids with progressive motion after unfreezing and contumation was higher in older than in younger bulls. Bigger volume ejaculates, though of lower concentration, were obtained from the bulls with bigger body weight at the age of 360 days. The percentage of spermatozoids after unfreezing and contumation increased together with larger body weight of the bulls. Along with massiveness index increase the volume of ejaculates decreased and semen mass motion as well as progressive motion of spermatozoids worsened. Higher HF gene share in bull genotype was related to worse semen mass motion and its lower concentration.