## Partitioning of genetic trends by flock in Istrian sheep breed



M. Špehar<sup>1</sup>, J. Ramljak<sup>2</sup>, A. Kasap<sup>2</sup>



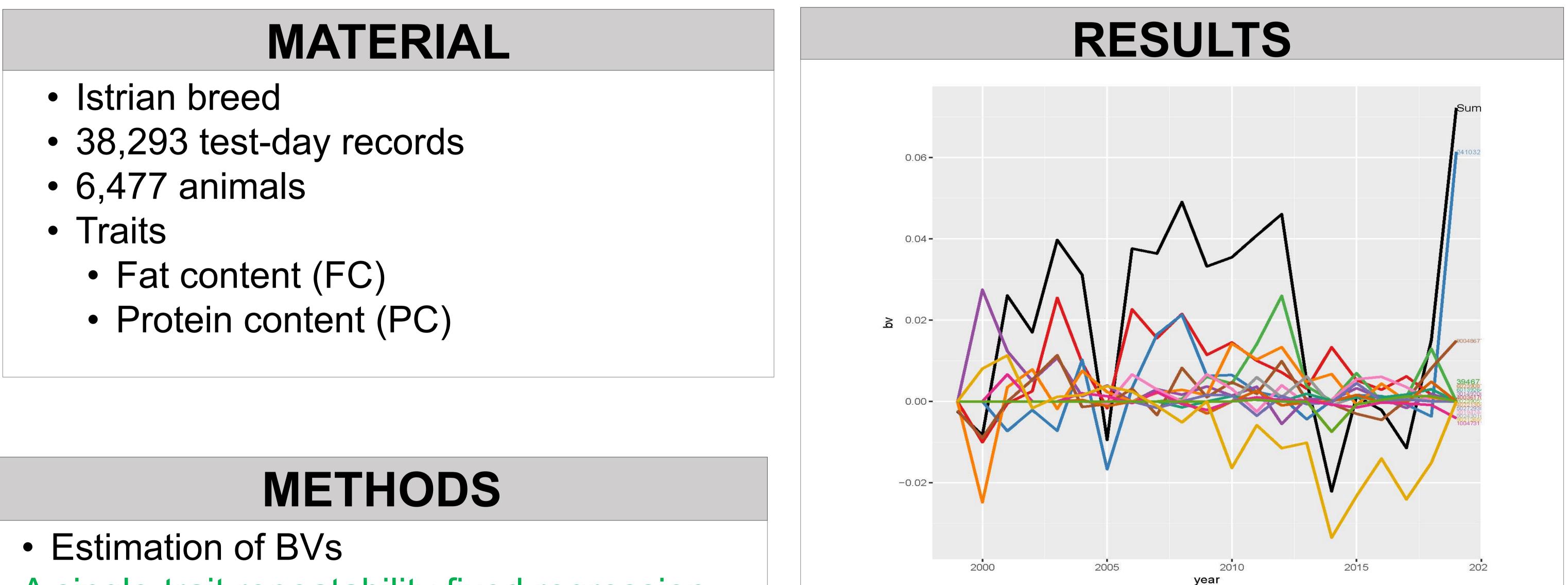
<sup>1</sup>Croatian Agency for Agriculture and Food, Svetošimunska 25, 10000 Zagreb, Croatia, e-mail: <u>marija.spehar@hapih.hr</u> <sup>2</sup>University of Zagreb, Faculty of Agriculture, Department of Animal Science and Technology, Svetošimunska 25, 10000 Zagreb, Croatia

## **AIM & CONCLUSION**

Genetic trends play an important role in monitoring success of selection Partition of breeding values is an effective tool for detecting main providers of selection gain The aims of this study were:

1) estimate genetic trends for fat content (FC) and protein content (PC) from 2000 to 2019 2) partition genetic trends (BV) by flock

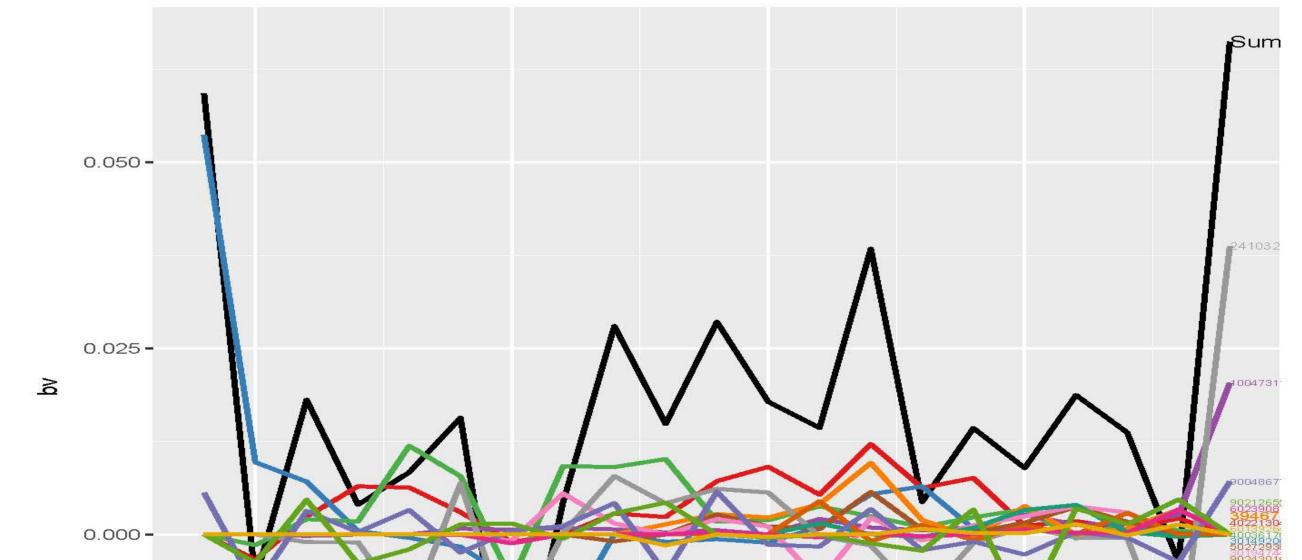
The obtained results implicate **absence of systematic selection** for PC and FC, regardless of regular provision of breeders with BVs for these traits



- A single-trait repeatability fixed regression test-day model
- Decomposition of the overall genetic trend R package 'AlphaPart'



Figure 1. Decomposition of the overall genetic trend for FC by flock



## -0.025 -2005 2000 2010 2015 202 year

Figure 2. Decomposition of the overall genetic trend for PC by flock

