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## Changes in the protein and fat content of milk from Black-and-White cows and Red-and-White cows according to the lactation phase and season

### S u m m a r y

The investigations included 369 cows of Black-and-White breed and 142 cows of Red-and-White breed, all with 50% share of HF genes. The effect of breed, lactation phase and season on daily milk yield, the protein and fat content of milk and the protein/fat ratio (P/F) was studied. It was found that cows of Red-and-White breed were characterised by the lower daily milk yield but more favourable protein/fat ratio compared with Black-and-White cows. Irrespective of the breed, the more advanced the lactation was, the more cows produced milk with protein to fat ratio ranging from 0.71 to 0.9, while less cows produced milk with P to F ratio below 0.7.