

Cattle breeds and benefits

Six breed trial in Hungary under organic conditions

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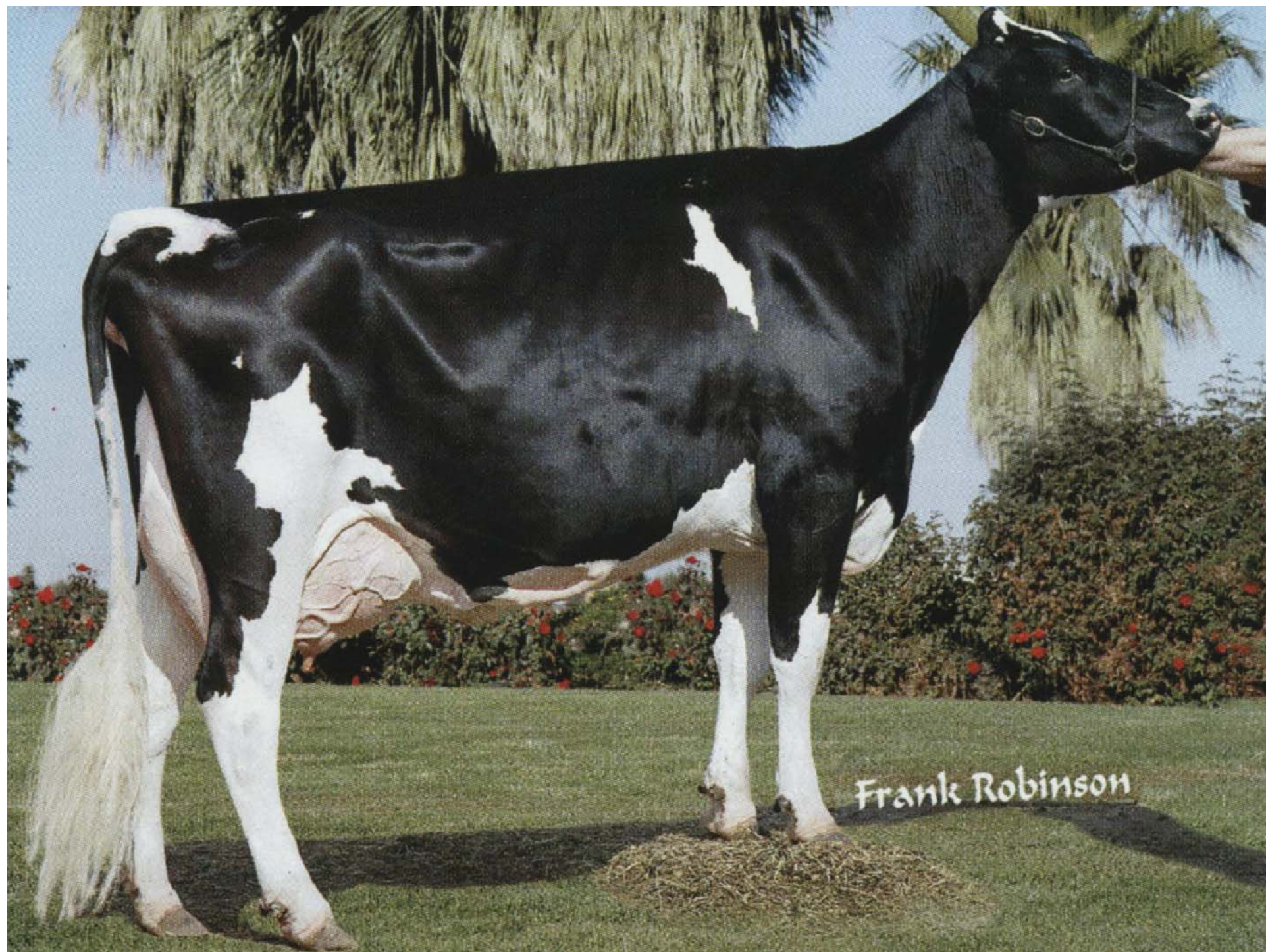


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- Decreasing population
 - Increasing relative milkproduction
 - Selection traits...
-
- Profitability of milkproduction – reproduction
 - Crossbreeding? Upgrading?







Frank Robinson

Breed figures in 2009

breed	n
Ayrshire	16
Ayrshire crosses	73
Brown Swiss	20
Brown Swiss crosses	283
Holstein	169 830
Jersey	162
Jersey crosses	665
Norwegian Red	16
Swedish Red	16





Origin of the breeds

Duration: 2008 fall -

TMR:

Alfafa hay – 2 kg

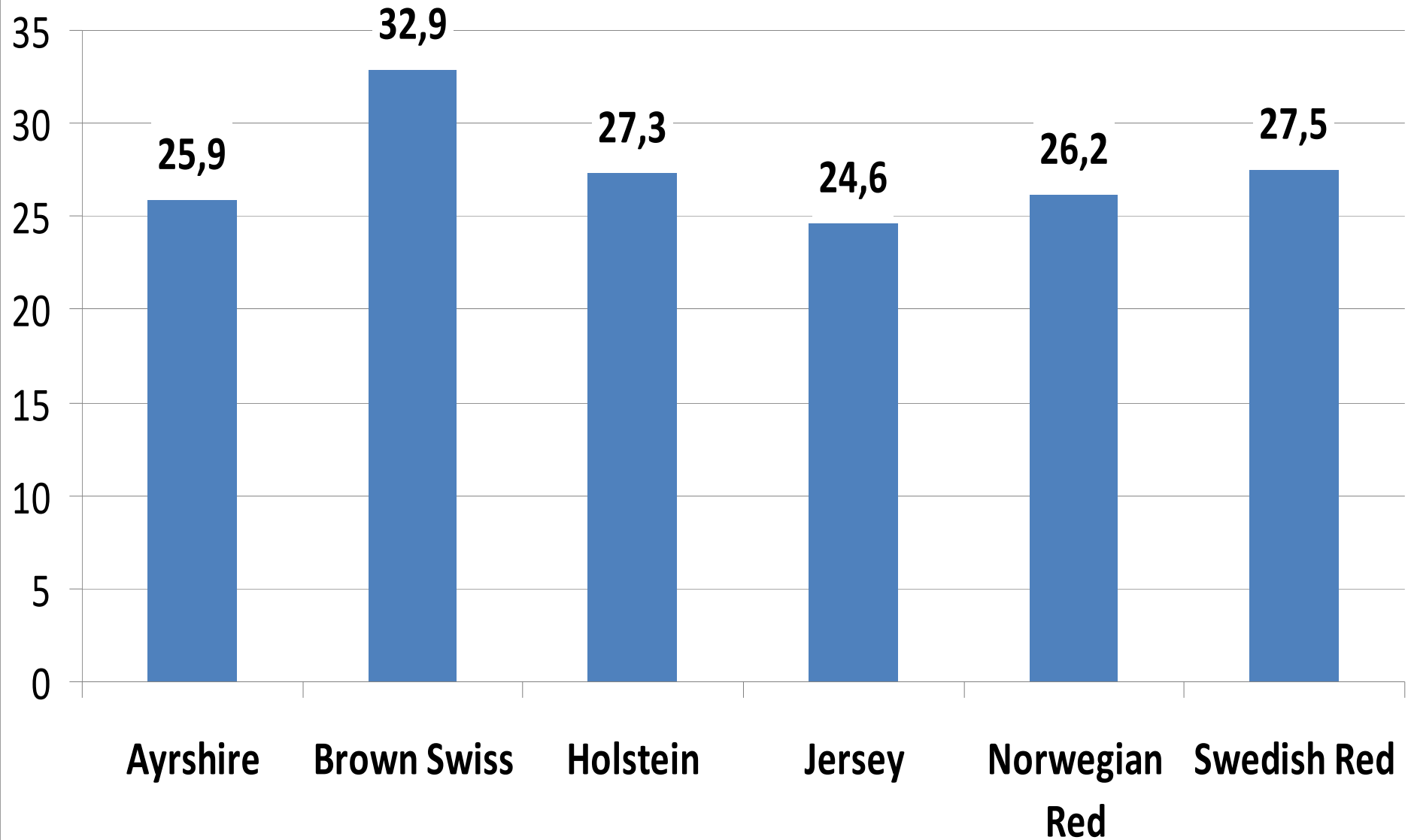
Alfafa haylage – 4 kg

Pea-Triticale haylage – 9 kg

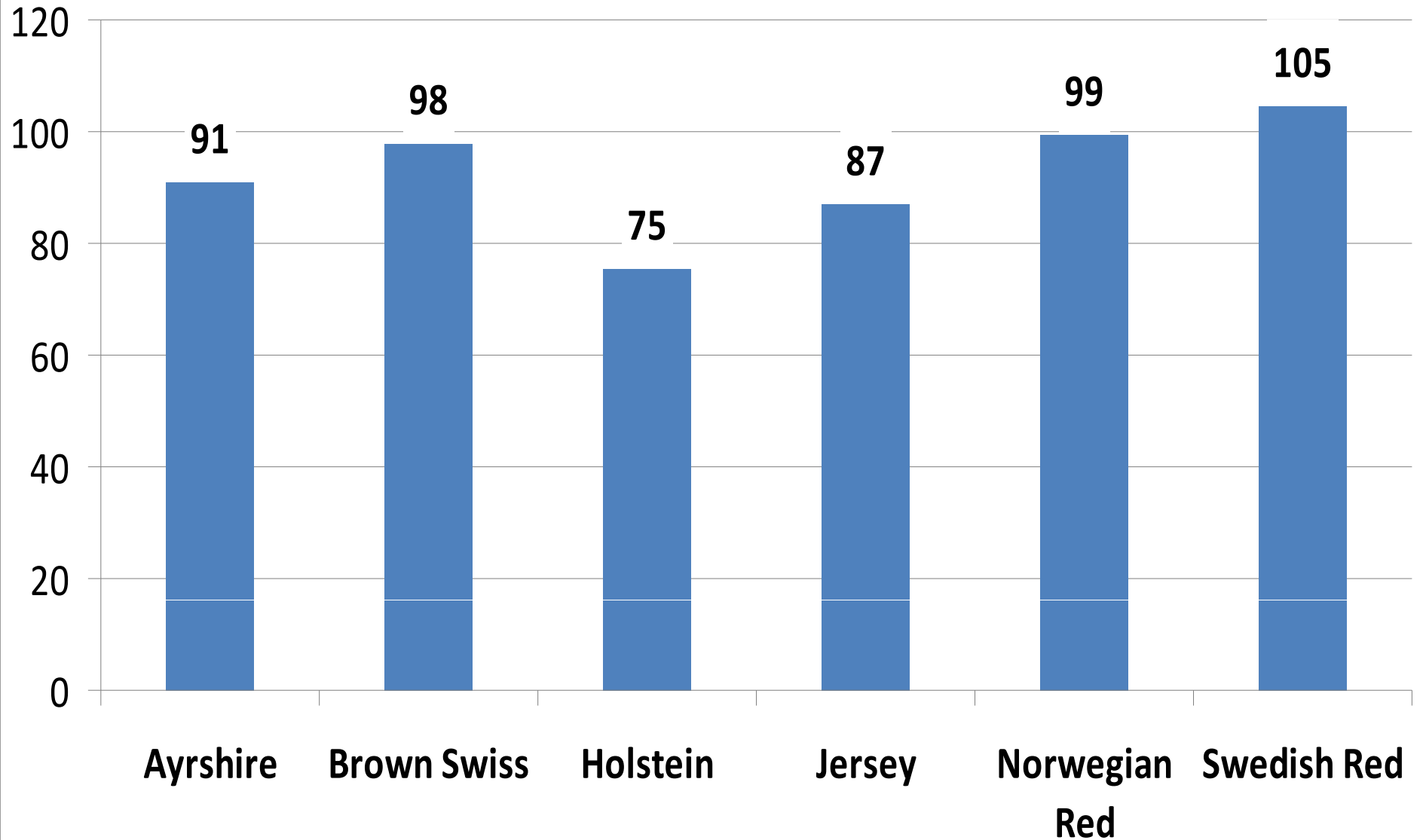
Corn silage – 9 kg

Grain – 9 kg

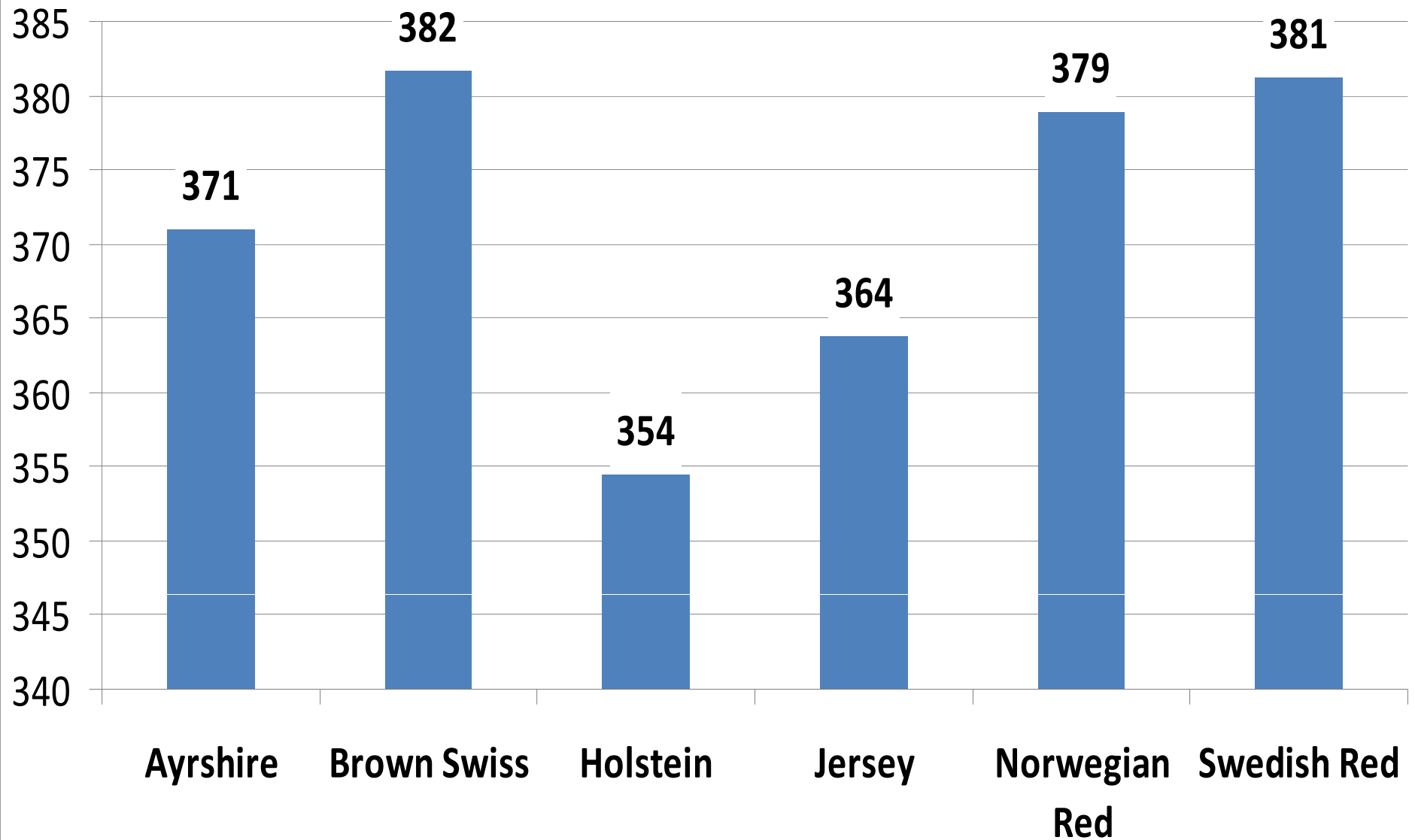
Age at first calving (month)



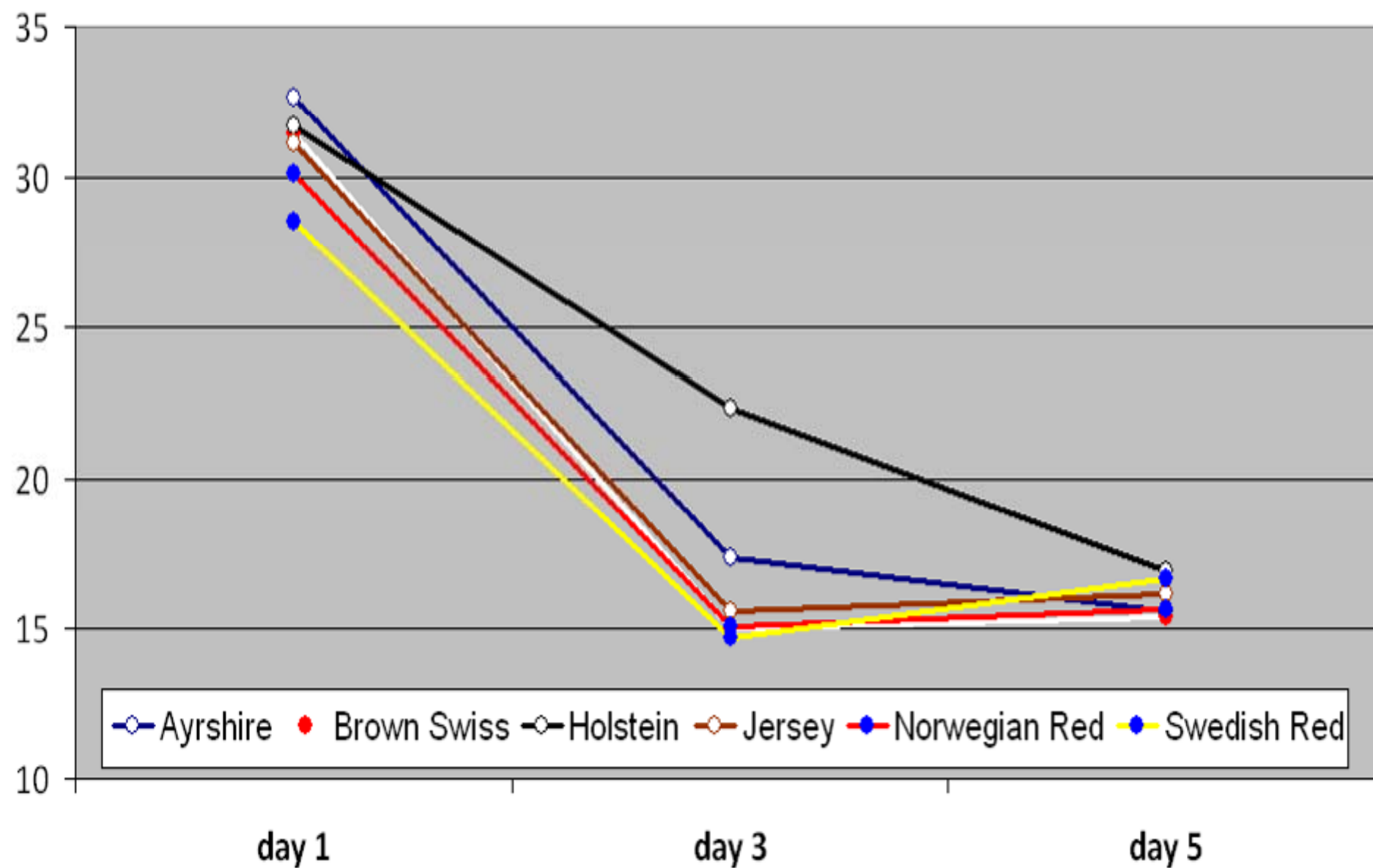
Number of days open



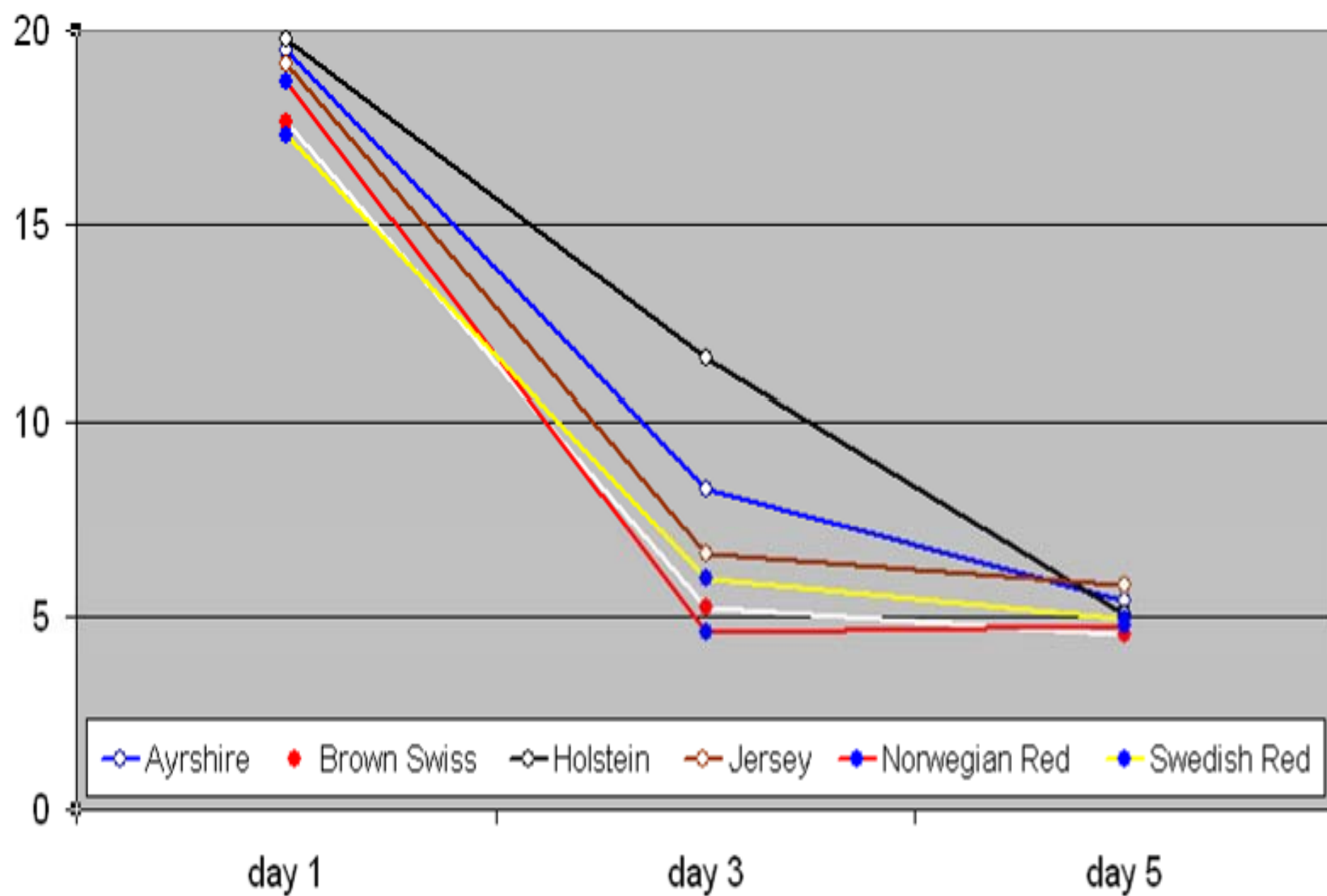
Calving interval (days)



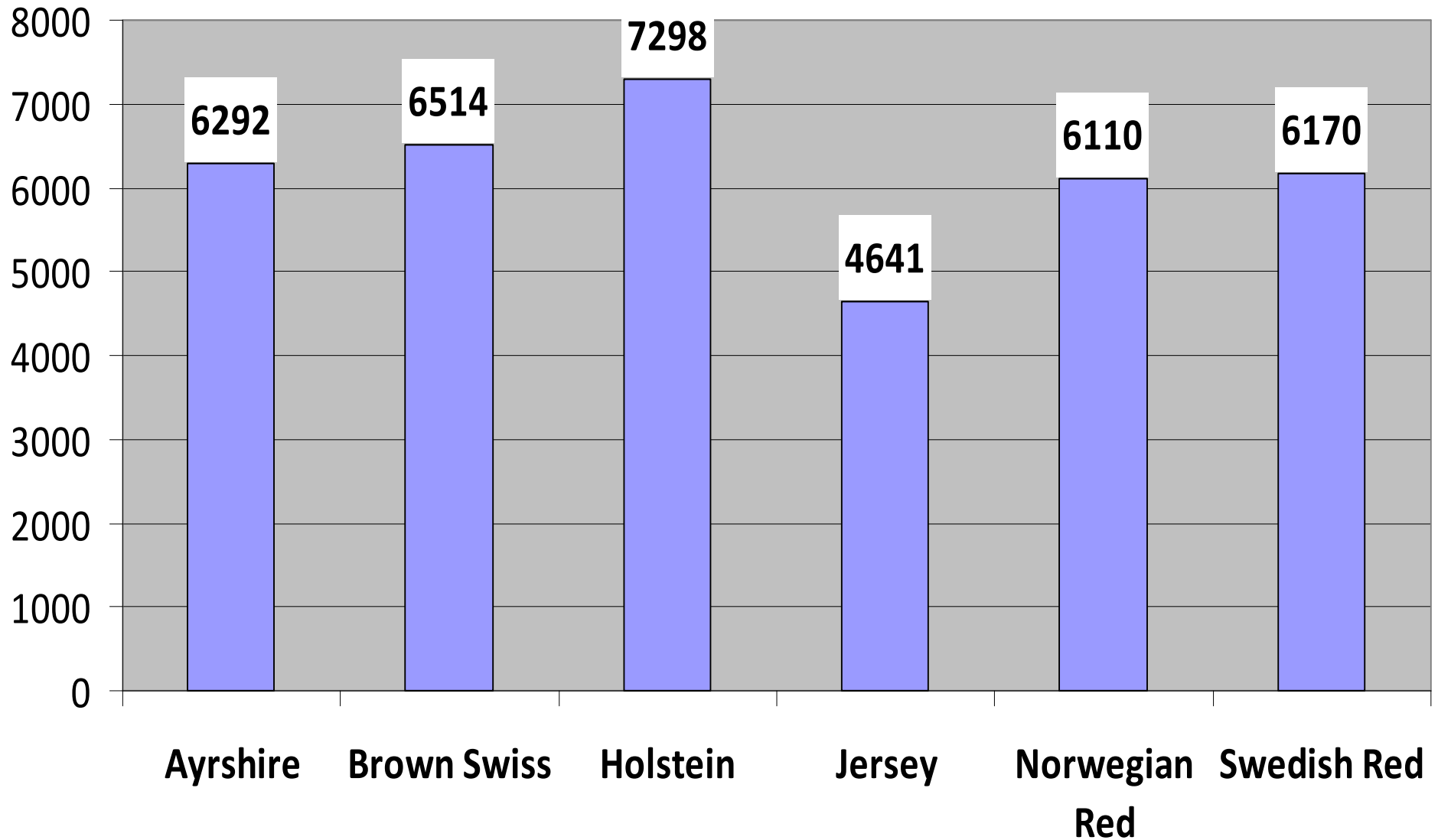
Colostrum dry matter content (%)



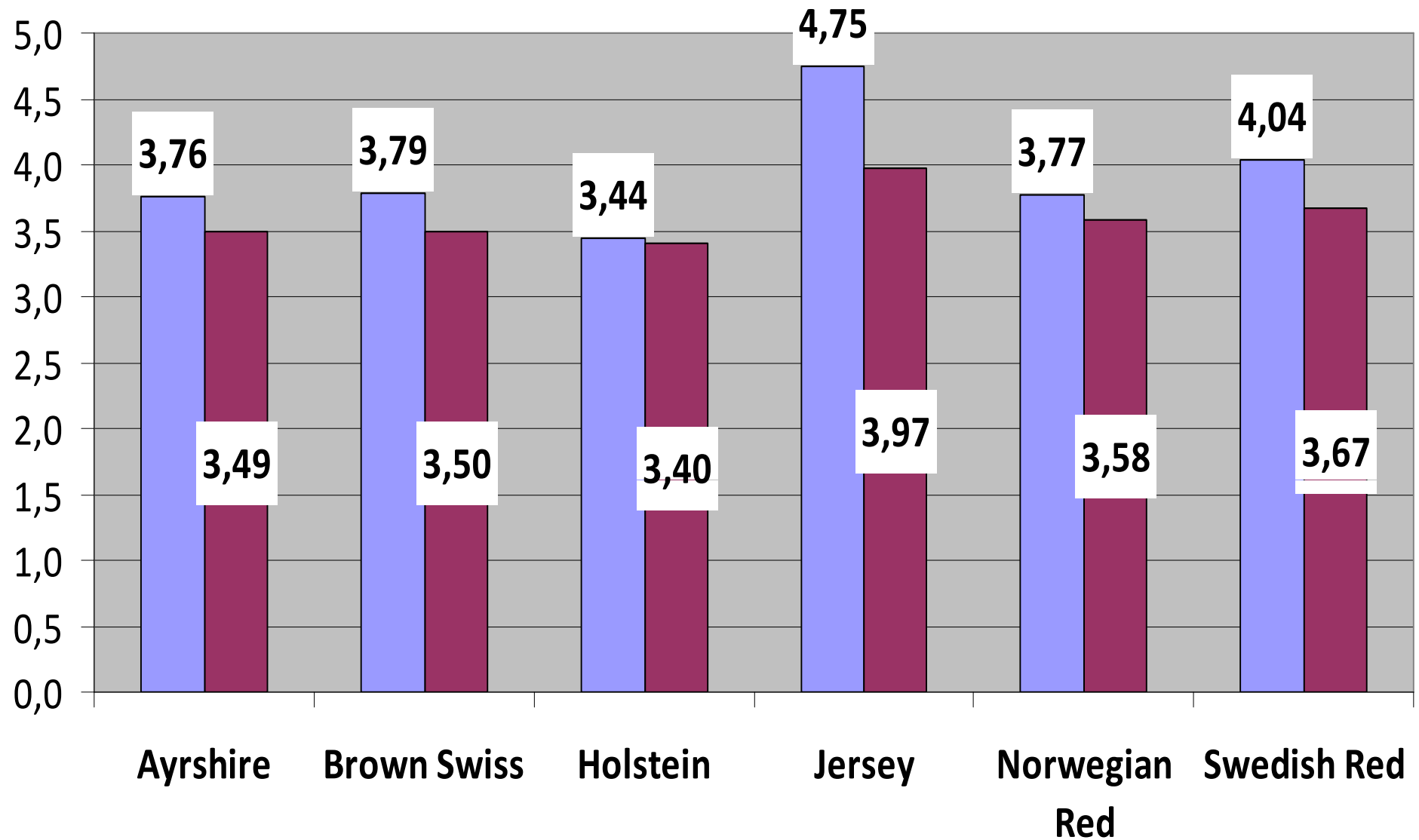
Colostrum protein content (%)



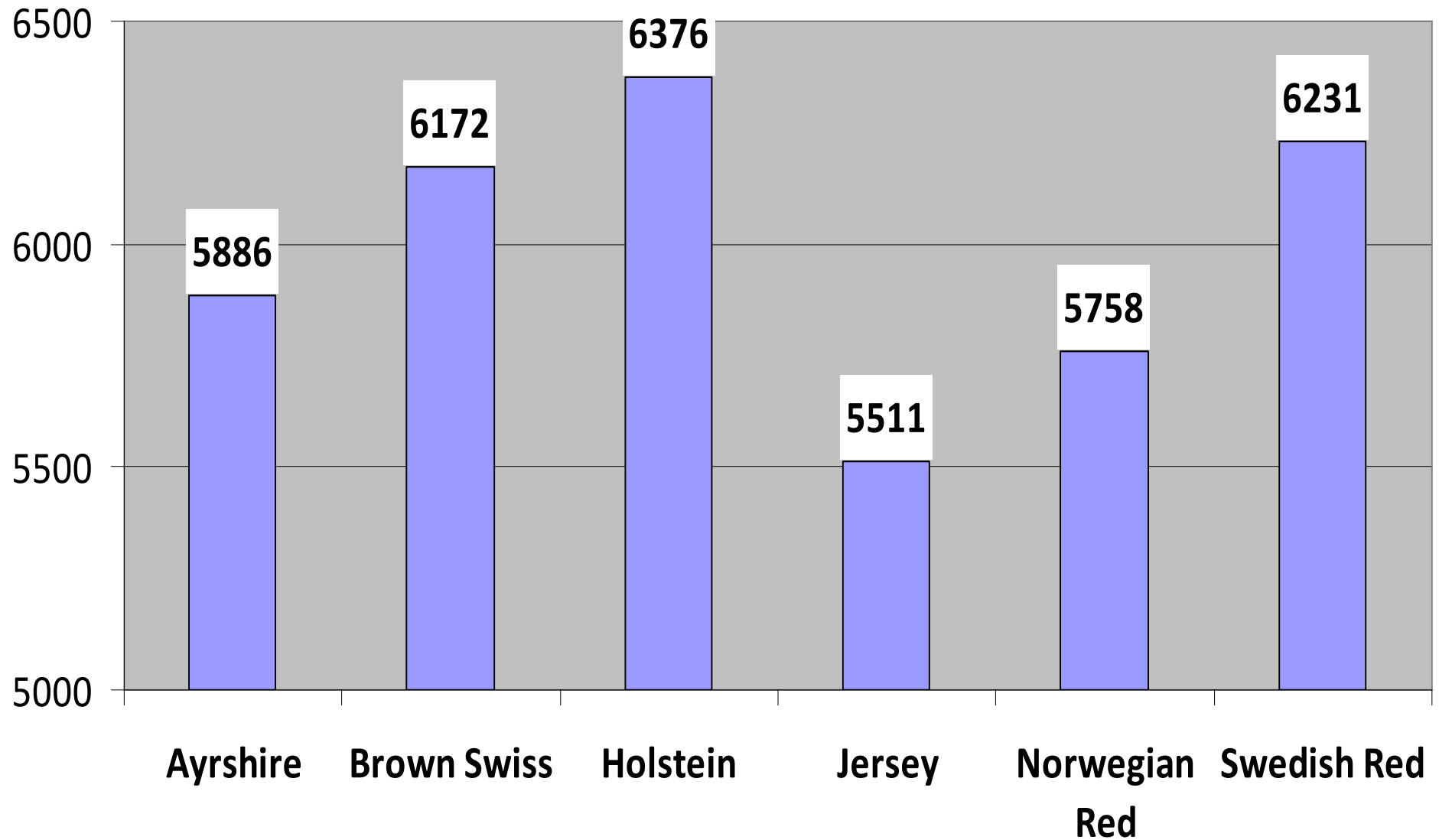
305 d milk production



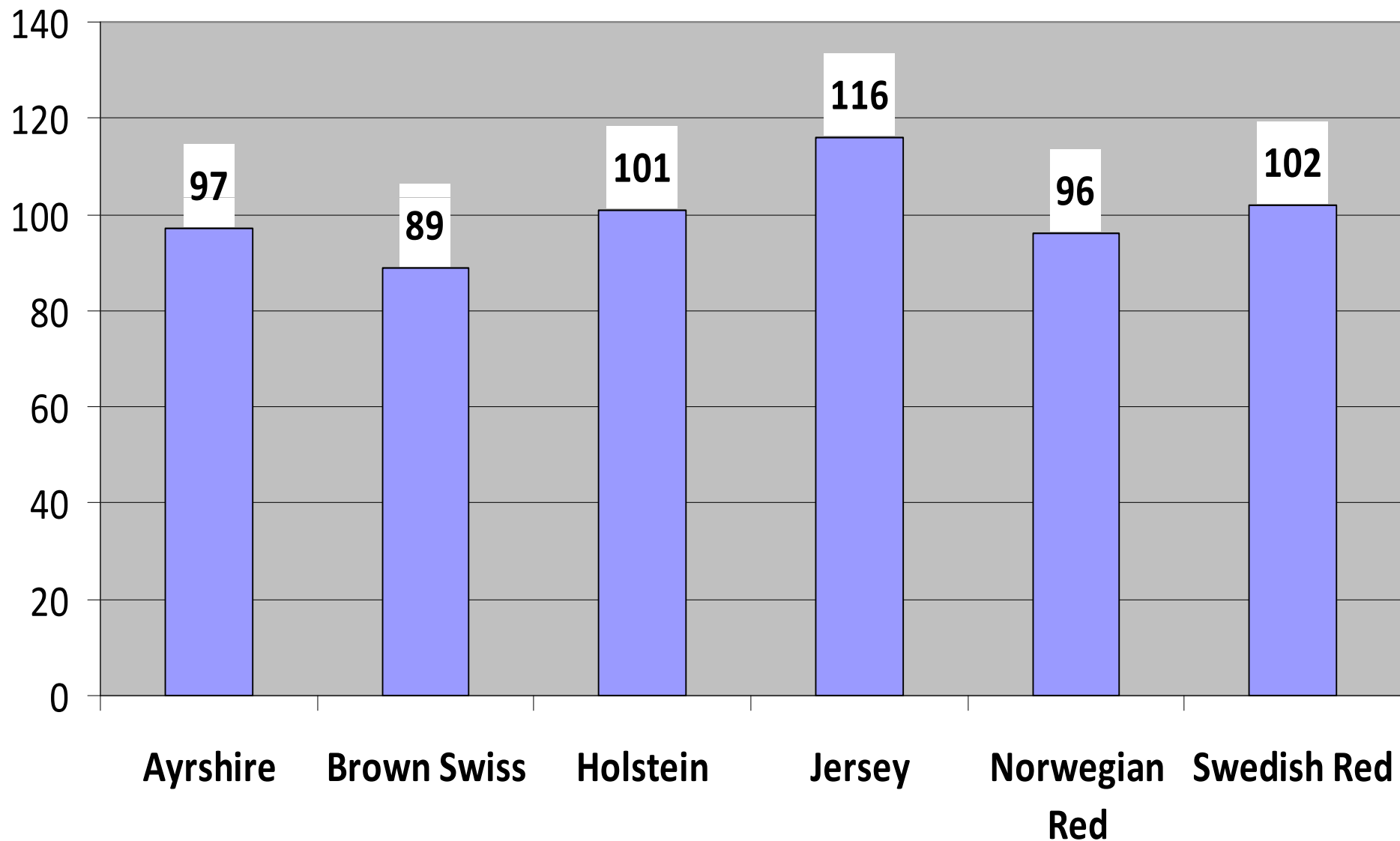
305 d fat and protein content



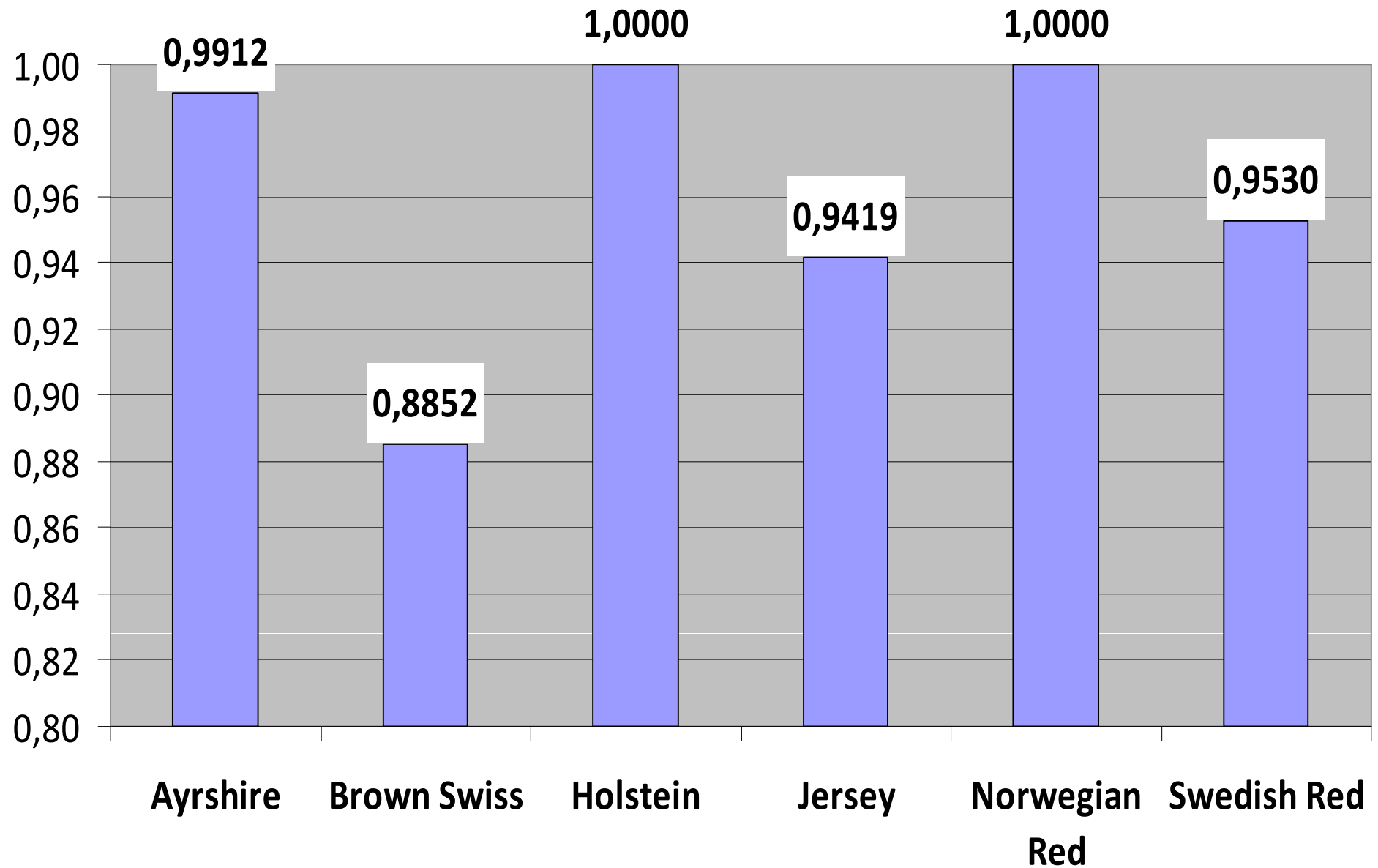
305 d FCM production



Fat + protein kg relative to 100 kg body weight



Efficiency analysis (DEA)



Conclusions

- Milk production extremes: Holstein and Jersey
- FCM production: Holstein leads
- Efficiency analysis: Holstein is the most efficient
- Under organic conditions differences are less pronounced