

# On farm organic dairy sheep and goat breeding in Germany

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## Introduction

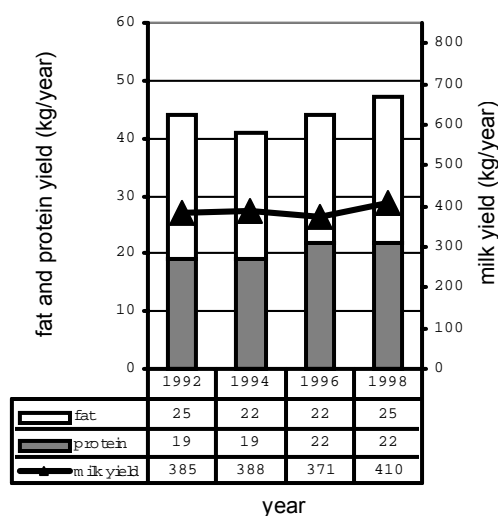
Dairy sheep and dairy goat keeping is a niche activity in Germany. Because dairy breeds of small ruminants are selected under intensive keeping conditions, breeding under the restrictions of organic farming is necessary to get adopted and high yielding flocks.

## Materials and methods

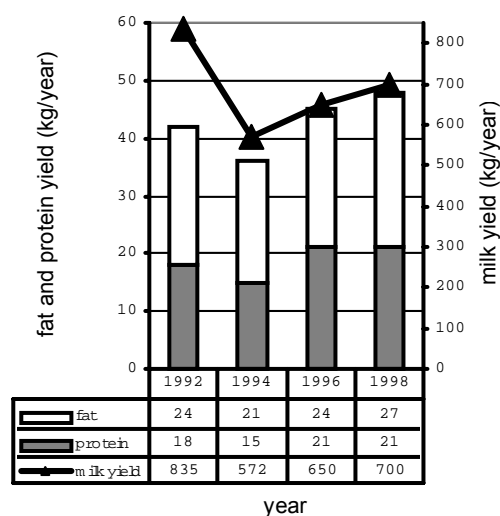
An analysis of the development of milk parameters and breeding strategy success was carried out on a full-time organic dairy goat farm (organic since 1982) in the middle of Germany from 1992 to 1998. The farm keeps about 30-35 dairy goats (Brown German Alpine) and about 30-35 dairy sheep (East-Frisian dairy sheep). All feedstuff was produced on farm, the animal were kept on pasture from May to November. Roughage was 70% of the diet. The breeding and feeding is focused on increasing the total fat and protein yield per lactation (cheese production) on the basis of independent milk control results.

## Results and discussion

**Milk, fat and protein yield of organic dairy sheep (n = 30 - 35; 1992 - 1998)**



**Milk, fat and protein yield of organic dairy goats (n = 30 - 35; 1992 - 1998)**



## Conclusions

In the period from 1992 to 1998 the fat and protein yield of both flocks could be increased. A specific breeding strategy had an important contribution to the increase but the environmental impacts on animal productivity is enormous (e.g. the very wet summer season 1994). A wrong decision in breeding bucks (dairy sheep in 1992-1994) had a negative effect on the productivity.

## References

- Lange, S. (1999). Milchleistungsprüfung bei Schafen und Ziegen im ökologischen Landbau. Diploma thesis, Witzenhausen, Germany, 68 pp.
- Rahmann, G. (2001). Breeding goats for organic production in Germany. In: M. Hovi and T. Baars (editors), Breeding and feeding for health and welfare in organic livestock systems: Proceedings of the Fourth NAHWOA Workshop, 24-27 March 2001, Wageningen, Netherlands, 94-106