

Innovative features


- Highly mechanised
- Embryo transfer
- DNA testing heifers
- Manure treatment to reduce NH₃ emissions



Buildings & Equipment

- Cubicles with mattress & rubber mat
- Group calving pens
- Group housing of calves on straw
- 8 x milking robots
- Manure robot
- Feed collector robot
- Bedding robot

Labour force

- 5 full time employees
 - 3 students
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Areas of interest

- Environmental impact
- Welfare of employees
- Economic efficiency

The herd

590 cows in total
530 cows in milk
560 dairy heifers

All-year-round calving
Age at first calving: 22 mo
Fulltime indoor housing

Breeds: 30% Holstein
15% Danish Red
55% Holstein x Danish Red x Montbéliarde

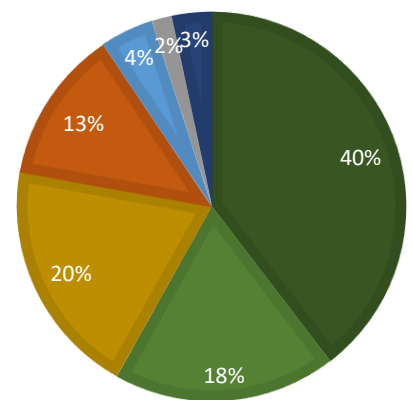
Milk production: 11,330 kg ECM per cow per year



Agricultural area

331 ha spring barley
155 ha silage maize
107 ha maize (corn)
165 ha grass/clover
37 ha winter rye
14 ha sugar beet
28 ha other

Total: 837 ha





Strengths

- Able to find low-cost production methods
- Does 80% of field work self
- Modern equipment in barn
- DNA testing & embryo transfer to improve herd



Weaknesses

- No pasture access
- Sandy soils
- Building for calving and close-up cows is outdated



Opportunities

- Upgrade barn for heifers, dry cows & close-ups
- Install automatic feed mixers
- Select positive herd traits via DNA testing



Threats

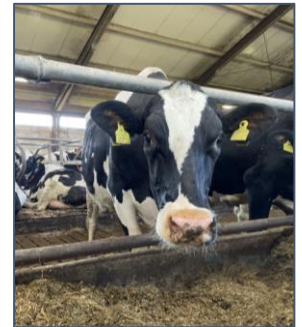
- More strict environmental regulations
- War in Eastern Europe
- Low field yields because of sandy soils

Innovative practice

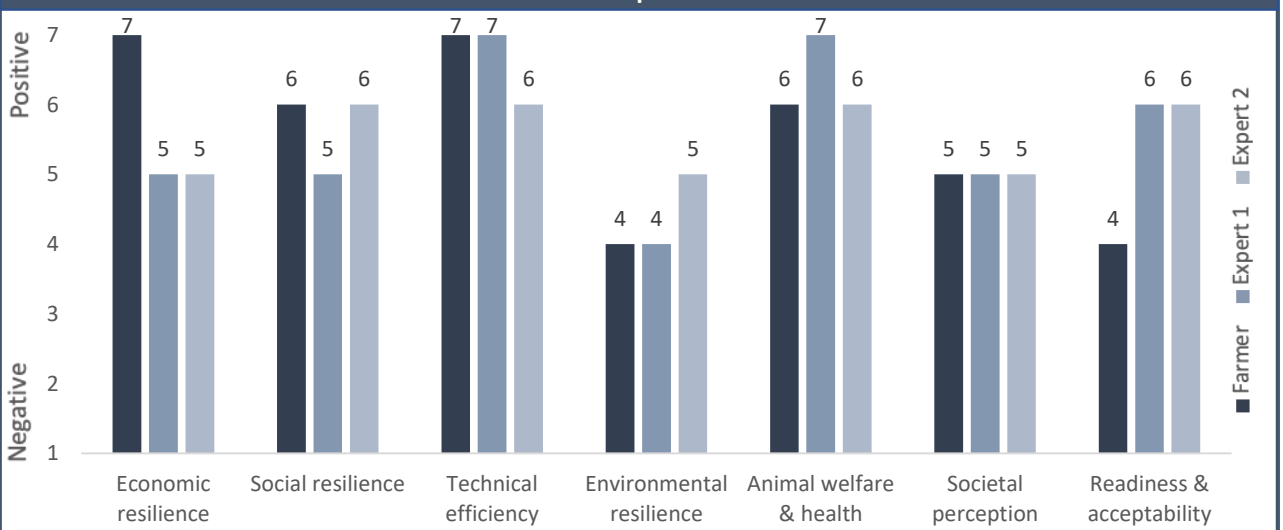
New & improved calf housing as strategy for improving animal welfare & economic resilience. Individual housing 1st wk, then group housing (6-7 calves) on straw

Potential future solutions

- Reduce ammonia emissions
- Closed feed storage
- Feed additives to reduce emissions



Effects of innovative practice on resilience



“Resilience 4 Dairy” is a European project involving 15 European countries and 18 partners. R4D is a thematic network on innovations and aims to support EU dairy farming in these regions where dairy farming is a main economic activity.



R4D pilot farmers are involved in a National Dairy Akis group where needs, solutions and knowledge are exchanged with other farmers, advisors and scientists on their way to build a resilient system. More information: <https://resilience4dairy.eu/>