



The Livestock Production Research Centre (SHF)

is Norway's largest educational and research facility for fundamental and innovative research as well as practical solutions for sustainable and profitable livestock farming.

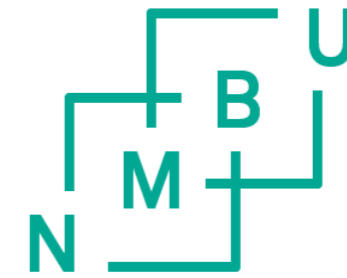
Together with our collaborators, we specifically focus on themes in the areas of livestock farming, nutrition, genetics, animal health and welfare, and the impact of domestic animals on the environment.

Dairy products, eggs and meat, together with their byproducts, must be produced in a responsible way and under optimal animal health and welfare conditions.

Additionally, One-Health (the interaction between animal health, human health and the environment) plays an important role in all aspects of animal husbandry as well as in society.

It is our aim to achieve synergy by combining education with fundamental and applied research.

Realization of this will bring science and innovation together and closer to society, policymakers and industrial stakeholders strengthening the university's academic environment and collaboration in Norway as well as internationally.



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The Research Center for Livestock Production (SHF) is Norway's largest educational and research facility for innovative and practical solutions for sustainable and profitable livestock farming.



Cattle:

SHF`s dairy herd consists of Norwegian Red (NRF) cattle.

The dairy cow barn consists of two separate freestalls, with space for a total of 120 dairy cows.

The facility includes 8 calf/ sick pens in addition to a veterinary division with 22 cubicles and the possibility to restrain cows individually for examination.

The cows are milked by two automatic milking robots. Individual feeding troughs (48) are installed in one of the freestall areas. These troughs gather individual roughage intake data, which is logged automatically. The facility also allows for up to 4 different types of concentrate to be fed on a predetermined individual basis. In addition, the facility has two GreenFeed emission monitoring units, which measure methane as the cows eat the concentrate.

The calf section may house up to 56 calves in eight group pens and 18 calves in pens.

The rearing barn has space for 96 individual feeder calves and yearlings and 20 suckling cows, in addition to a pre-calving area with 30 places.

The pig house:

The department is over 1,500 square meters. Production is based on a 7- week production cycle which includes breeding, weaning, growing and finishing.

The farm has three groups of 20 sows farrowing in turn. The facility includes 138 trial places for research purposes as well as 84 places for feed experiments.



Poultry:

The facility has 7 different animal rooms for research purposes only.

The largest room, 580 square meters, houses 66 bins with the possibility for feed- and water registration as well as animal weight and health registration at group level.

There are opportunities for research experiments with laying hens and other poultry such as turkey or quail etc.).



Sheep and goats:

SHF has approximately 80 dairy goats and a sheep herd consisting of roughly 120 Norwegian White Sheep (NWS) and 40 Norwegian Spælsau.

In addition, the facility has a room with 48 individual pens for research purposes.



Agriculture:

SHF is responsible for NMBU`s agricultural areas which include approximately 270 hectares (50 ha organic) arable land, which is comprised of roughly 1/3 grain fields, 1/3 grass fields, and 1/3 pasture. Additionally, SHF manages 140 hectares of forest – trial operation.

The summer is high season for feed production for livestock (SHF is self-sufficient) as well as feed production for research purposes. All feed produced is stored in 8 bunker silos, which together hold 4,500 cubic meters whereas trial feed is mainly stored in round bales.