

Need for measures for increased animal welfare

- **A compilation of received input from industry, interest organisations and academia**

Keeping animals entails a great responsibility for us humans to ensure that the animals' specific needs for housing, feed, care and biosecurity are secured. Sweden has a long tradition of having good animal welfare, but it must constantly be developed together with changing external factors. In the beginning of 2020 Formas has had contact with industry, interest organisations and academia in order to determine which areas, within animal welfare, they consider needing development. Those responses that included animal welfare promoting measures, which is the main focus of the call "Measures for increased animal welfare" have been summarised in the following compilation. Several proposed needs of measures concern all species, while others are more species-specific. The compilation should not be seen as an order list but as a guide with regard to areas that are considered a priority for the society.

All animals included in the call for measures for increased animal welfare

- Measures to clarify the correlation between animal welfare / measures and economy
- Measures to promote healthy breeding
- Measures to link sustainability and animal welfare. There are indicators that there is a connection between achieving the global goals of sustainable development and improved animal welfare.
- Digital tools, integration of technology and Big Data for increased animal welfare
- Measures and solutions for water supply and quality, supply need of water
- Measures to improve animal welfare in organic production, for example measures to reduce predator attacks
- Measures to handle the impact of climate change on animal welfare
- New solutions for production systems to better meet the needs of the animals and generate increased animal welfare, for example, increased housing enrichment.
- Increased biosecurity for increased animal welfare
- Measures to increase animal welfare with regard to the influence of social conditions / gender and socio-economic status

Slaughter and transport (all animals included in the call for measures for increased animal welfare)

- Measures to improve animal welfare during transport;
- Measures for improved animal welfare at slaughter
- Measures for improved animal welfare when loading on farm and unloading at slaughter
- Measures for increased animal welfare when housed at slaughterhouses.

Pig

- Measures for an increased welfare of the sow with regard to factors such as culling hoof health and increased litter size
- Measures for increased piglet survival : management routines
- Measures to reduce diarrhea in piglets at weaning
- Measures for improved methods for stunning at slaughter

Cattle

- Animal welfare promoting measures for calves
- Measures to ensure the quality and quantity of colostrum
- Practical solutions for optimal pasture management connected to increased welfare
- Measures to reduce the spread of infections and thereby increase health and welfare

Sheep

- Measures to prevent predator attacks

Horses

- Measures for good orthopedic health
- Develop indicators to better assess the health and welfare of the horse when housed, trained and at competitions
- Measures for increased welfare at international transports
- Development of technical measurement methods for evaluation of workload connected to animal welfare
- Measures to better meet functional requirements such as social needs, eating time and air quality
- Further development of methods for monitoring foaling
- Measures for increased animal welfare in foals
- Measures for increased and assured competence and knowledge implementation when keeping horses

Poultry (Egg)

- Measures for decreased feather pecking
- Measures for good welfare in chicks
- Identification of indicators for good welfare

Poultry (Meat)

- Identification of indicators for good welfare
- Development of animal welfare control with new types of techniques

Insects

- Animal welfare promoting measures in insect production

Fish

- Measures for improved animal welfare when breeding different fish species. This should be done species-specific or at least targeted at smaller fish groups with similar conditions and needs as there are different anatomical differences between fish species.
- Measures for increased animal welfare at stunning and slaughter
- Development of indicators to measure good animal welfare in fish
- Measures for increased biosecurity and diagnostics

Mink

- Measures to ensure optimal feed composition during all cycles of the year
- Measures for increased animal welfare related to enrichment and movement needs

Dogs and cats

- Measures to reduce the spread of infection in dogs and cats during import and export