

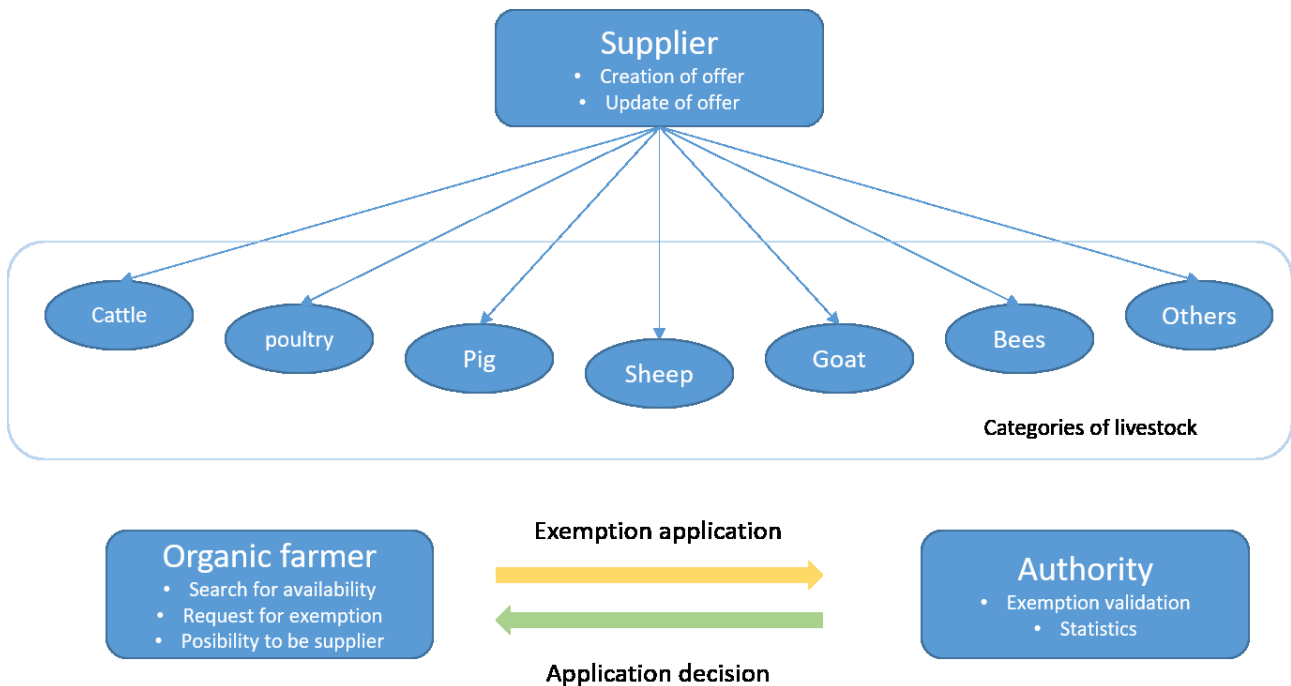


# Requirement description of Livestock database to support LBST processes



## 1 Requirement background

As a consequence of Regulation (EU) 2018/848 Article 26, Landbrugsstyrelsen (the Danish Agricultural Agency, DAA) is obliged to make a database available to farmers and suppliers where it is possible to list the availability of organic production animals.



The database is split into two main areas. On the top level, the suppliers are able to create offers on various types of livestock.

On the lower level, a farmer is able to send an exemption application to the authority at DAA (Landbrugsstyrelsen), and get answer back on the request.

The system should hold five types of user profiles:

1. Read access. This access do not require login, and will make it possible to search in the database for available livestock.
2. Supplier. With this access it is possible to create and edit offers on livestock
3. Organic farmer. This access makes it possible to create an exemption application to the authority.
4. Caseworker. This profile validates exemption applications on behalf of the authority.
5. Superuser. This profile can edit the various offers, change to system variables etc. (Authority)

### 1.1 Mandatory requirements:

The database must via a Web GUI support the 3 userprofile:

1. Farmer with read access
2. Supplier of livestock
3. Superuser



#### 1.1.1 Farmer with read access

It must in general be possible to obtain access to search functions without having a login to the system. It must be possible to see both active and inactive offers, and to perform searches on livestock breeds along with supplier in order to see all offers available.

##### Search in the database

In the database, the different types of livestock breeds are divided in their own category, and by clicking through the lists, it must be possible to drill down to the wanted line.

Database structure.

Structure	Example
1. Livestock	1. Poultry
2. Use	2. Laying hens
3. Type	3. Day-old
4. Breed	4. Lohmann Brown-Plus

#### 1.1.2 Supplier of livestock

In order to be able to create an offer you must have a supplier account and a login to the database. To apply for a supplier account you need to provide the authority with the following information's:

1. Company master data. (Name, Primary key, Address, Country)
2. Organic information's (Authorization number, Inspection organization)
3. Contact information's (Phone, e-mail, Homepage)
4. Other information's (Delivery areas, Limitations, Manufacturer information)

##### Creation of offer

As an active supplier the main part of your activities are to create and maintain offers in the database. All activities can be done via the web interface to the database. An offer consist of information regarding the kind of livestock and details around that. For details, please see Appendix 1.

##### Activation of an offer

Only active offers must be displayed online for farmers to search for. However, it must be possible to create a number of offers, without activating all offers simultaneously. At creation, it must be possible to provide from and to date for when an offer should be available. At a later point in time, it must be possible for the supplier to change the status on each offer. A log of availability for each offer will be obtainable from the search pages.

#### 1.1.3 Superuser

The Superuser profile must be able to edit the various offers, change to system variables etc. The role is only assigned to person that works on behalf of the Authority.

#### 1.1.4 Data integration / extract for BI

As part of the solution, it must be possible on a regular basis to extract data from the system for BI and reporting on national and EU level according requirements in regulation EU 2018/848.

#### 1.1.5 User Management

As part of the solution, user creation in the system must be done on basis of upload of data from the DAA (Landbrugsstyrelsen) systems. The user themselves must only be allowed to change password in the system. All other profile updates for a user must be done via upload of information from the DAA (Landbrugsstyrelsen).



#### 1.1.6 Security / GDPR requirements

The solution must meet the General Data Protection Regulation (GDPR) requirements, via the Data processor agreement. As part of this, the system must show an information to the user that personal data regarding the user will be stored in the database and a link to the homepage from DAA (Landbrugsstyrelsen), where more info will be available regarding how personal data is processed with in DAA.

#### 1.1.7 Commissioning of mandatory requirements

The solution must be available for the Livestock suppliers, Farmers and the authority at DAA (Landbrugsstyrelsen) to take into use no later than January 1<sup>st</sup> 2022.

### 1.2 Non-Mandatory requirements

It is desirable that the solution via the same WEB GUI support the 2 userprofile:

1. Organic farmer. This access makes it possible to create an exemption application to the authority.
2. Caseworker. This profile validates exemption applications on behalf of the authority.

#### 1.2.1 Organic farmer

For organic farmers, it is possible to obtain a Userid/Password in order to log into the system. With this access, it is possible to apply for an exemption regarding use of non-organic animals in the organic production, when no suitable animals can be found, according to the requirement described in EU 2018/848. The exemption request must be done via the system.

#### 1.2.2 Caseworker

It should be possible for a Caseworker to receive exemption request received from the Organic farmers. The requests will be validated by the caseworker in the DAA (Landbrugsstyrelsen) based on the exemption request and the availability of the organic breeding material in the system. The decision of the validation, should be available through the system for the Organic farmer posting the request.

All organic farmers have a case account at DAA, where the application decision will be stored. Additionally, the system automatically issues a cover letter via "Tast-selv" (existing Self-service solution), to the farmer. In case of rejection on the application due to any missing information in the application, the farmer can update the application and resend it.

#### Possible scenarios for validation of exemption application

- Exemption accepted
- Application is missing critical information
- Denial on exemption (information regarding complaint guide)

As part of all validations it should be stated whom the caseworker have been, along with the date and time for application and validation.

In case the application is lacking information, the requester should have the possibility to update the application and resend it, or simply just delete the application. In any other cases, the application will be closed and the decision will be added to the application along with any text accompanying the decision. The status of the application will be changed from "in progress" to "Exemption given" or "exemption denied".

#### 1.2.3 Commissioning of non-mandatory requirements

The solution could be available for the Livestock suppliers, Farmers and the authority at DAA (Landbrugsstyrelsen) to take into use at the same time as the solution for the mandatory requirements. In



case this is not possible due to time constraints it will be weighted positive that it will be done as soon as possible.

## 2 Appendix 1: Data Structure

The system must contain a form for each different livestock species, where it must be possible to give specific information dependent on the species.

The system must, in general include following information for all animals:

- Location of the animal (address).
- If the animal is worthy of preservation.
- Status of health.
- Vaccination status.
- Purpose of production.
- Production data.
- Stable systems.
- Relevant characteristics.
- Methods of handling.

**For all animal except poultry the following information should be given:**

- Species grouped by use, breed, age and sex
- List of all available offers and their location
- In case no suitable animal are available, it must be possible to fill out an exemption request.
- In addition to breeding animals, it must also be possible to list animals for breeding.

**For poultry (especially laying hens and broilers):**

- View of all suppliers without regards to availability
- The farmer must enter planned delivery week, housing type and type of poultry
- Search result will show all offers from the period of +/- one week
- In order to apply for an exemption the suppliers must be contacted in advance to clarify availability of eggs and day old poultry.
- Exemption application must be done in advance. (8 weeks for day old poultry and 5 weeks for eggs).

In the tables below the information that must be available for the various Livestock is shown

### Appendix 1.1: Pigs

Characteristics	Values
Use	Fattening/ breeding
Age	Specify calendar week/ date of birth or age group
Weight	Weight/Specification of weight class on the day the offer is submitted
Breed/Crossbreed	Deposit HIT breed catalogue, note which main breeds are used for crossbreeding and Red List animals; if a breed is offered which is not in the catalogue, mail to FiBL
Group size/ number of animals	Drop-down in steps of 5 animals
Location(radius)	Postal code
Country	Country
Separated by Sex	No / Male / Female
Type	Piglets / Wealing / Young Sow



Breed/Crossbreed	Deposit HIT breed catalogue, note which main breeds are used for crossbreeding and Red List animals
Health information	PRRS, scabies, Clostridia, circo, parvo, erysipelas, E. coli (strains), salmonella, APP, Polyserositis, mycoplasma, endoparasiticinfections, dysentery, ileitis, sniffing disease, influenza vaccination
100% organic feeding	Yes/No
Permanent supply relationship possible	Yes/No
Herdbook entry (only for breeding)	Yes/No
Bearing (only for breeding sows)	Yes/No
Castrated (only for fattening piglets)	Yes/No
Other	Further important information about the animal can be noted here, as well as documents (e.g. breeding certificates, herd book entry) can be uploaded
Documents	Upload of documents (breeding certificates, pedigree entry, etc.)

## Appendix 1.2: Cattle

Characteristics	Values
Category	Dairy cattle/ beef/ dual use cattle
Use	For mast/ for breeding/ both
Sex	Male/ Female/ Ox (for mast cattle)
Breed/Crossbreed	Deposit HIT breed catalogue, note which main breeds are used for cross breeding and red list animals
Date of birth / age	Input date of birth or drop-down possible with age groups of the HIT database. Database will automatically group in to an age class and this will also change. If age class is chosen, it is not automatically changed
Location(radius)	Postal code
Country	Country
Quantity	Number
Herdbook entry	Yes / No
Horn status	Horns/ dehorned / genetically hornless
Health information's	Info that only animals that are BHV1-free, BVD-free, brucellosis-free, FMD-free may be recruited is optional: vaccination BT, Q-fever, bovine influenza
The animal knows:	Playpen, year-round outdoor keeping, milking robot
Milk performance level herd	Related to the herd output, input number
Milk performance level (if known)	If known from animal or indicated Mother
Milk testing farm	Yes / No
Breeding bull	Yes / No
Licensed	Yes / No
Animal has already calved	Yes / No
Bearing status	Bearing / Not bearing / in milk
Origin of animal from embryo transfer	Yes / No
Sperm separation	Yes / No
Ear number	Number
Other	Further important information about the animal can be noted here



### Appendix 1.3: Goats

Characteristics	Values
Category	Milk goat / meat goat / dwarf goat/ wool goat
Use	For mast / for breeding / both
Sex	Male / Female
Breed / Crossbreed	Deposit breed catalogue, note which main breeds are used for cross breeding and red list animals
Date of birth / age	Enter date of birth for individual animals; for groups, enter date of birth from to; sort in age groups of the HIT database, additionally animals up to 60 days (then 60 days to 9 months, 10-19 months, older than 19 months). If you enter date of birth then the database will automatically group into an age group and this will change. If age class is chosen, it is not automatically changed.
Location (radius)	Postal code
Country	Country
Quantity	Number
Herdbook entry	Yes / No
Horn status	Horns/ dehorned / genetically hornless
Health information	Clinically unsuspecting regarding CAE, Pseudo TB, Para TB, Maedi. Optional: Vaccination BT,
Milk performance level	In relation to herd performance
Milk performance level (if known)	If known from animal or indicated Mother
Milk testing farm	Yes / No
Animal has already lambed	Yes / No
Bearing status	Bearing / Not bearing / in milk
Ear number	Number
Other	Here you can note further important information about the animal and upload documents (e.g. breeding paper, herd book entry)

### Appendix 1.4: Sheep

Characteristics	Values
Category	Merino sheep / meat sheep / country sheep / milk sheep / crossbred animals
Use	For mast / for breeding / both
Sex	Male / Female
Breed / Crossbreed	Deposit breed catalogue, note which main breeds are used for cross breeding and red list animals
Date of birth/age	Enter date of birth for individual animals; for groups, enter date of birth from to; sort in age groups of the HIT database, additionally animals up to 60 days (then 60 days to 9 months, 10-19 months, older than 19 months). If you enter date of birth then the database will automatically group into an age group and this will change. If age class is chosen, it is not automatically changed
Location (radius)	Postal code
Country	Country
Quantity	Number
Herdbook entry	Yes / No
Horn status	Horns/ dehorned / genetically hornless



Health information	Clinically unsuspicious with regard to mould limp, pseudo TB, Para TB, Maedi, TSE status. Optional: VaccinationBT
Milk performance level	In relation to herd performance
Milk performance level (if known)	If known from animal or indicated Mother
Milk testing farm	Yes / No
Animal has already lambed	Yes / No
Bearing status	Bearing / Not bearing / in milk
Ear Number	Number
Other	Here you can note further important information about the animal and upload documents (e.g. breeding paper, herd book entry)

### Appendix 1.5: Rabbits

Characteristics	Values
Category	Meat production, wool production, fur processing
Sex	Male / Female
Breed / Crossbreed	Deposit Breed Catalogue
Age	1: Under 60 days (Not allowed for sales) 2: Between 60 days and 10 months 3: Between 10 months and 19 Months 4: Above 19 months
Location (radius)	Postal code
Country	Country
Quantity	Number
Weight	Up to 5,5 kg / more than 5,5 kg
Herdbook entry	Yes / No
Health information	RHD vaccination, Myxomatose vaccination
Vaccinations	Bluetongue ....
Other	Here you can note further important information about the animal and upload documents (e.g. breeding paper, herd book entry)

### Appendix 1.6: Poultry

Characteristics	Values
Category	Laying hens / For fattening
Type	1. Chicken 2. Geese 3. Quail 4. Ducks 5. Turkeys
Origin / Breed	Deposit breed catalogue, note which main breeds are used for cross breeding and red list animals
Egg shell color	Color
Health information	
Country	Country
Capacities per year	Number
Housing system	
Gender sorting	Yes / No
Vaccination status	..
Other	



### Appendix 1.7: Bees

Characteristics	Values
Animal species	Honeybee
Sex	Male / Female
Breed /Crossbreed	Free text
Location (radius)	Postal code
Country	Country
Quantity	Number
Other	Here you can note further important information about the animal and upload documents

### Appendix 1.8: Other animals

Characteristics	Values
Animal species	Horse / Deer / etc. ....
Sex	Male / Female
Breed /Crossbreed	Free text
Date of birth	Month and year of birth
Location	Postal code
Country	Country
Quantity	Number
Other	Here you can note further important information about the animal and upload documents (e.g. breeding paper, herd book entry)