


Integrated Animal Production and Health Monitoring Systems


As Danish farmers own Danish Agricultural Advisory Service, they decide which computer tools we are to develop. One of the advantages of the close cooperation with the farmers is that they will get exactly the tools they ask for.

The advisory tool "INTEGRATED FARM MANAGEMENT SYSTEM"  meets the constantly growing production, environmental and health monitoring requirements of modern farming. In Denmark the system is linked to a national animal database and comprises more than 25 different but integrated programmes for planning, management, production and economy.

The successful operation of modern farms demands that farmers have the capacity to handle and manage large and varied amounts of data, so that for example:

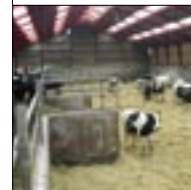
- Only sows with the highest farrowing rates are kept in the pig house
- Only the best cows are used for breeding
- Crop production is optimised continuously to achieve maximum profit
- And the economy is under control.

The requirements for efficient operation mean that recording, management and support in making the right decisions are also key areas for efficient decision support systems and tools for modern farms.

The INTEGRATED FARM MANAGEMENT SYSTEM  when linked to the national database includes a thoroughly tested Animal Health Monitoring Component. The experiences from a close and intensive cooperation with the Danish farmers are also used in other countries.

Services offered by DAAS:

- Development of animal databases
- Development of Animal Health Monitoring Systems
- Development of planning and management tools
- Development of managerial assessments and analysis
- Operating procedures and on-going monitoring
- Capacity building and training



Danish Agricultural Advisory Service
National Centre

Udkaersvej 15, DK-8200 Aarhus N · Tel. +45 87 40 50 00 · www.landscentret.dk

E-mail: thb@landscentret.dk

IT management support systems for agriculture

Danish official herd and animal register

In conformity with EU regulations all cattle must be registered. In Denmark the registrations are stored in a central database belonging to the Royal Danish Ministry of Food, Agriculture and Fisheries. All registrations are based on reports from animal breeders. DAAS has undertaken the reporting of information and events about the herds and animals for The Royal Danish Ministry of Food, Agriculture and Fisheries since 1992.

PlantInfo – www.planteinfo.dk

This system provides all relevant updated information, guidelines and IT-tools needed for common plant production. The IT system is developed and implemented in Denmark, and is under implementation in Norway and Sweden.

Variety-Info Database – www.sortinfo.dk

This system supports the Danish farmers and advisers when defining the optimal variety/sort choice. All results from trials are continuously updated and registered via the Internet thus enabling the farmer to utilise the trial results immediately.

Plant Protection Agent Database

This database showing all Danish/EU authorised pesticides has been implemented in Denmark, based on development in a 3-year project in cooperation between the key institutions within Plant Protection in the Baltic countries, Poland and Denmark. The goal of the project was to develop and implement an Internet based database for pesticides for use in Denmark, the Baltic countries and Poland.

Danish Field Database / Field Maps Online

Danish Field Database developed by DAAS continuously updates the field data concerning fertilisation and plant protection. The database is used by the farm manager as the central entrance to farm specific data. These data can be combined with complementary locally specific data. The system enables the farm manager to get a clear picture of the production unit regarding e.g. area administration, subsidy possibilities and local production conditions.

Plant Protection Online

– www.plantevaern-online.dk

A Decision Support System (DSS) which provides advisers with updated information concerning plant protection. The system is based on dose-response algorithms demonstrating effects of different single pesticide products and different mixtures. The system has been developed to reduce chemical applications and to safeguard the optimal production when using reduced pesticide doses at the proper time. The IT systems are developed and implemented in Denmark, and are under implementation in Norway and Sweden.

Recording Net

Internet based plant pests monitoring and early warning system. The system is updated on a weekly basis. Danish local advisers report their findings of plant pests and the results are made available on the Internet.



Danish Agricultural Advisory Service

National Centre

Udkaersvej 15, DK-8200 Aarhus N · Tel. +45 87 40 50 00 · www.landscentret.dk

E-mail: thb@landscentret.dk