
**Electronic data interchange between
information systems in agriculture —
Agricultural data element dictionary —**

**Part 2:
Dairy farming**

*Échange de données informatisé entre systèmes d'information en
agriculture — Dictionnaire de données agricoles —*

Partie 2: Exploitation laitière



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO/IEC 11788 may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 11788-2 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 13, *Agricultural electronics*.

ISO 11788 consists of the following parts, under the general title *Electronic data interchange between information systems in agriculture — Agricultural data element dictionary*:

- *Part 1: General description*
- *Part 2: Dairy farming*
- *Part 3: Pig farming*
- *Part 4: Poultry farming*
- *Part 5: Non-animal stationary application*

Annexes A and B form a normative part of this part of ISO 11788.

Introduction

Stand-alone computers on farms require that the same data be manually entered into and collected from the different computers. This is a laborious task which becomes superfluous when the computers are interconnected and able to communicate with each other automatically to share and exchange information. Information exchange means data transport between the management computer on one side and each process computer on the other side.

An agricultural data element dictionary (ADED) consists of data elements that may be used in the agricultural sector to exchange data electronically. ADED is closely linked to agricultural data interchange syntax (ADIS). It is a syntax that may be used in the agricultural sector to exchange data electronically. ADED in combination with ADIS makes electronic data interchange possible.

In a data element dictionary all data elements are described in a unique way. Each element is uniquely identified by a data dictionary number (DD number). Data dictionaries for data exchange between management computers and process computers may be subsets of larger data dictionaries.

The standardization of on-farm data interchange between management computer and stationary process computers consists of an interchange syntax, ADIS, and an agricultural data element dictionary, ADED. The ADIS syntax is described in ISO 11787:1995, *Machinery for agriculture and forestry — Data interchange between management computer and process computers — Data interchange syntax*. A general description of ADED is given in ISO 11788-1; the other parts of ISO 11788 describe data dictionaries for different fields of application.

This part of ISO 11788 describes the agricultural data dictionary elements in the field of dairy farming.

Electronic data interchange between information systems in agriculture — Agricultural data element dictionary —

Part 2: Dairy farming

1 Scope

This part of ISO 11788 specifies how the agricultural data element dictionary (ADED) can be used in on-farm data exchange between management systems and stationary computers in dairy farming. Stationary computers in dairy farming are for example feeding computers, milk yield registrators and animal weighing computers.

This part of ISO 11788 describes the data elements and entities in the field of dairy farming in accordance with the rules given in ISO 11788-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 11788. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 11788 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 11784:1996, *Radio frequency identification of animals — Code structure*.

ISO 11788-1:1997, *Electronic data interchange between information systems in agriculture — Agricultural data element dictionary — Part 1: General description*.

3 Terms and definitions

For the purposes of this part of ISO 11788, the terms and definitions given in ISO 11788-1 and the following apply.

3.1

entity relationship diagram

visual presentation of the possible relationships between entities

4 Abbreviations

ADED: Agricultural Data Element Dictionary

ADIS: Agricultural Data Interchange Syntax

AN: Alphanumeric