INTERNATIONAL STANDARD

ISO 11788-3

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

Part 3: Pig farming

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

Partie 3: Élevage porcin



Reference number ISO 11788-3:2000(E)

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Foreword

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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 11788 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 11788-3 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 19, *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 applications

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 each computer. This laborious task 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.

An agricultural data element dictionary (ADED) consists of data elements that can be used in the agricultural sector to exchange data electronically. ADED is closely linked to agricultural data interchange syntax (ADIS), also used in the agricultural sector to exchange data electronically. The two in combination make 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 ADIS and an ADED. The ADIS is described in ISO 11787. A general description of the ADED is given in ISO 11788-1; the other parts of ISO 11788 describe data dictionaries for different fields of application.

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

Part 3:

Pig 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 pig farming. Stationary computers in pig farming are, for example, feeding computers and animal weighing computers.

This part of ISO 11788 describes the data elements and entities in the field of pig farming in accordance with the rules given in ISO 11788-1 and ISO 11788-2.

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

ISO 11788-2:2000, Electronic data interchange between information systems in agriculture — Agricultural data element dictionary — Part 2: Dairy farming.

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 Abbreviated terms

ADED Agricultural Data Element Dictionary

ADIS Agricultural Data Interchange Syntax

AN Alphanumeric

C Conditional

DD **Data Dictionary**

EDI Electronic Data Interchange

ERD Entity Relationship Diagram

Κ Key data element

M Mandatory

Numeric N

0 Optional

Obl Obligation

ADED pig farming

5.1 Code sets

In this part of ISO 11788, code sets are added to the data element. When a data element has a code set, it may be a normative or an informative code set. A normative code set is specified in an International Standard; an informative code set only gives an example of possible values.

When there is agreement on the data element description, but the values of the code set differ between countries, the code set must be defined as national. The national code set can be found in the national data dictionary.

5.2 **Entity relationship diagram**

The entity relationship diagrams given in Figure 2 and Figure 3 show the entity types (rectangles) and their relationship types (lines with certain characteristics). The relationship type between two entity types can have the characteristics/cardinalities shown in Figure 1.

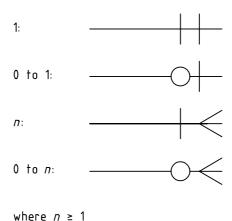
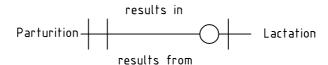


Figure 1 — Relationships between entity types

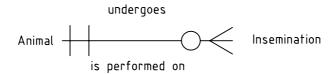
EXAMPLE 1



The cardinalities show that one occurrence of an entity type has a relationship to zero or one occurrence of an other entity type. The relationship names have to be read clockwise.

In this case: A parturition may result in a new lactation. The other way around: a lactation results from one parturition. The relationship to parturition is used for identifying the lactation.

EXAMPLE 2



The cardinalities show that one occurrence of an entity type has a relationship to zero or more occurrences of another entity type.

In this case: An animal may undergo several inseminations, an insemination is performed on one animal. The relationship to the animal is used for identifying the insemination.

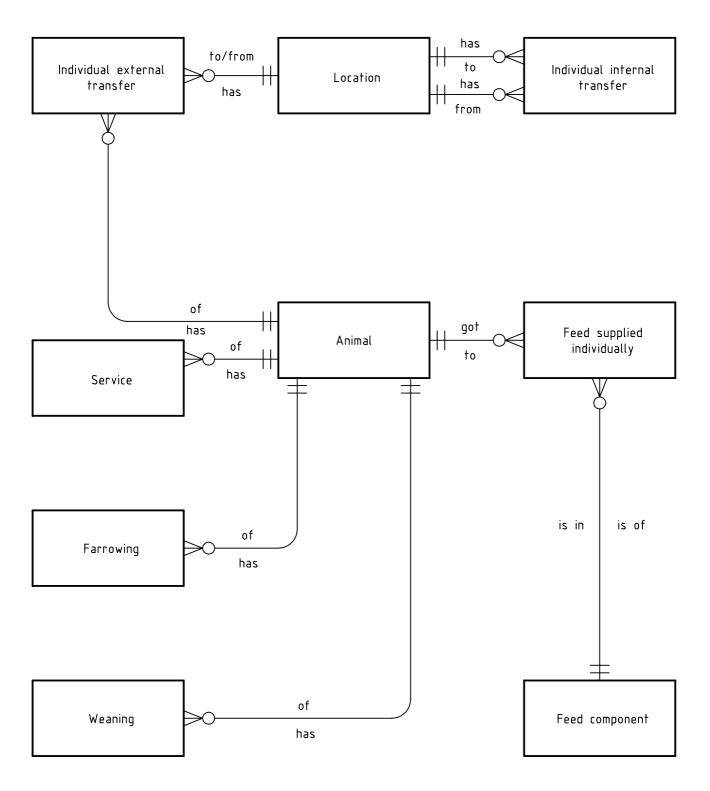


Figure 2 — Entity relationship diagram for individual identification

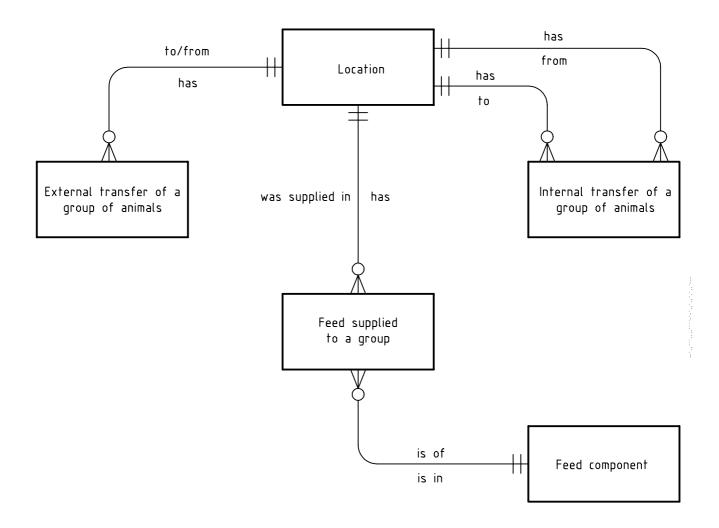


Figure 3 — Entity relationship diagram for no individual identification

5.3 Entities

The entities for the field of pig farming are given in annex A.

5.4 Data elements

The data elements for the field of pig farming are given in annex B.

Annex A (normative)

Entities

990012	Feed component		
	In this entity the data elements give information on the major characteristics of a feed component (a feed component could be a mof several feed components)		
0	ADED-nr	Name	
K	900099	Feed component number	
K	900100	Feed lot number	
	900101	Feed type number	
	900102	Feed component name	
М	900103	Dry matter content	
	900104	Energy type	
ļ.	900105	Energy per kilogram	
	900106	Crude protein per kilogram	
	900107	Phosphorus per kilogram	
Ť	900108	Calcium per kilogram	
	900109	Lysine per kilogram	
990013	Feed supp	blied individually	
990013		blied individually ty the data elements give information about the feeding of an individually identified animal, during a certain period	
990013 O			
	In this enti	ty the data elements give information about the feeding of an individually identified animal, during a certain period	
0	In this enti	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name	
О К	In this enti	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2)	
О К К	In this enti ADED-nr 900070 900099	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2) Feed component number	
о к к к	In this enti ADED-nr 900070 900099 900100	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2) Feed component number Feed lot number	
О К К К	In this enti ADED-nr 900070 900099 900100 900110	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2) Feed component number Feed lot number Feeding end date	
О К К К	In this enti ADED-nr 900070 900099 900100 900110 900111	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2) Feed component number Feed lot number Feeding end date Feeding end time	
О К К К	In this enti ADED-nr 900070 900099 900100 900110 900111	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2) Feed component number Feed lot number Feeding end date Feeding start date	
О К К К	In this enti ADED-nr 900070 900099 900100 900110 900111 900112 900113	ty the data elements give information about the feeding of an individually identified animal, during a certain period Name Animal number (see ISO 11788-2) Feed component number Feed lot number Feeding end date Feeding end time Feeding start date Feeding start time	

990014	Feed supplied to a group				
	In this entity the data elements give information about the feeding of a group of animals during a certain period				
0	ADED-nr	Name			
K	900117	Location number			
K	900118	Location type			
K	900119	Process computer number			
K	900099	Feed component number			
K	900100	Feed lot number			
K	900110	Feeding end date			
K	900111	Feeding end time			
	900112	Feeding start date			
	900113	Feeding start time			
	900114	Distribution type			
	900115	Measure type			
	900116	Total feed amount			
990015	Individual external transfer				
	In this entity the data elements give information about the transfer of an individually identified animal to or from the farm				
0	ADED-nr Name				
K	900070	Animal number (see ISO 11788-2)			
K	900117	Location number			
K	900118	Location type			
K	900119	Process computer number			
K	900120	Transfer date			
K	900121	Transfer time			
	900122	Location direction			
	900123	Transfer reason			
990016	Individual	internal transfer			
	In this enti	ity the data elements give information about the transfer of an individually identified animal within the farm			
0	ADED-nr	Name			
K	900070	Animal number (see ISO 11788-2)			
K	900124	To-location number			
K	900125	To-location type			
K	900126	To-process computer number			
K	900120	Transfer date			
K	900121	Transfer time			
	900123	Transfer reason			

990017 External transfer of a group of animals						
000017		ty the data elements give information about the transfer of animals to or from the farm				
0	ADED-nr	Name				
K	900117	Location number				
K	900118	Location type				
K	900119	Process computer number				
K	900120	Transfer date				
K	900120	Transfer time				
K	900121	Location direction				
K						
	900123	Transfer reason				
	900127	Number of animal(s) transferred				
	900128	Average age of a group of animals				
	900129	Average mass				
	900130	Registered total mass of animal(s)				
990018	Internal tra	ansfer of a group of animals				
	In this enti	ty the data elements give information about the transfer of animals within the farm				
0	ADED-nr	Name				
K	900131	From-location number				
K	900132	From-location type				
K	900133	From-process computer number				
K	900124	To-location number				
K	900125	To-location type				
K	900126	To-process computer number				
K	900120	Transfer date				
K	900121	Transfer time				
	900123	Transfer reason				
	900127	Number of animal(s) transferred				
	900128	Average age of a group of animals				
	900129	Average mass				
	900130	Registered total mass of animal(s)				
990019	Location					
990019		ty the data elements dive information about the location number and the location level				
0	ADED-nr	tity the data elements give information about the location number and the location level				
O K	900117	Name Location number				
K	900117	Location type				
K						
r\	900119	Process computer number				

990020	Farrowing		
	In this entit	ry data elements of a farrowing are listed	
0	ADED-nr	Name	
K	900070	Animal number (see ISO 11788-2)	
K	900134	Farrowing date	
	900135	Farrowing time	
	900136	Number of piglets born alive	
	900137	Number of stillborn piglets	
	900138	Number of male piglets born alive	
	900129	Average mass	
	900130	Registered total mass of animal(s)	
	900139	Litter quality	
990021	Service		
	In this entit	ry data elements belonging to a specific service, artificial or natural, are listed	
0	ADED-nr	Name	
K	900070	Animal number	
K	900140	Service date	
K	900141	Service time	
	900142	Type of insemination	
	900143	Batch number	
	900144	Boar number	
	900145	Service technician	
990022	Weaning		
000022	In this entity data elements of a weaning are listed		
0	ADED-nr	Name	
K	900070	Animal number	
K	900146	Weaning date	
	900147	Number of weaned piglets	
	900148	Number of weaned male piglets	
	900129	Average mass	
	900130	Registered total mass of animal(s)	
	900139	Litter quality	
	- •	1 A	

Annex B

(normative)

Data elements

ADED-number : 900099

Name : Feed component number

Synonyms

Definition : Numeric code used to identify the feed component

Comments

resolution: 0 unit: Format : type: N length: 5

Values : code set: N min: max:

Code set

ADED-number : 900100

: Feed lot number Name

Synonyms

: Numeric code used to identify the feed lot from which the feed component originates Definition

Comments

length: 2 Format : type: N resolution: 0 unit:

Values : code set: N min: max:

Code set

ADED-number : 900101

Name : Feed type number

Synonyms : Group of feed component

Definition : Numeric code used to identify the group to which the feed component belongs

Comments

Format : type: N length: 1 resolution: 0 unit:

Values : code set: Y min: max:

Code set : Defined at national level

ADED-number : 900102

Name : Feed component name

Synonyms

: Name of the feed component (raw material or complementary feed, ...) used in a feed mix Definition

Comments

Format : type: AN length: 25 resolution: unit:

Values : code set: N min:

ADED-number: 900103

Name : Dry matter content

Synonyms :

Definition : Content of dry matter in a feed component or in a feed mix

Comments :

Format : type: N length: 5 resolution: 2 unit: g/kg

Values : code set: N min: max:

Code set :

ADED-number : 900104
Name : Energy type

Synonyms

Definition : Name of energy definition used to characterize the feed component

Comments : This data element allows for the use of a specific definition of energy (as EN, ED, FU, EW, etc.)

Format : type: AN length: 25 resolution: unit:

Values : code set: N min: max:

Code set :

ADED-number : 900105

Name : Energy per kilogram

Synonyms :

Definition : Energy content per kilogram of wet mass

Comments :

Format : type: N length: 4 resolution: 2 unit: MJ/kg

Values : code set: N min: max:

Code set :

ADED-number : 900106

Name : Crude protein per kilogram

Synonyms :

Definition : Content of crude protein per kilogram of wet mass

Comments :

Format : type: N length: 5 resolution: 2 unit: g/kg

Values : code set: N min: max:

Code set :

ADED-number : 900107

Name : Phosphorus per kilogram

Synonyms :

Definition : Content of phosphorus per kilogram of wet mass

Comments :

Format : type: N length: 5 resolution: 2 unit: g/kg

Values : code set: N min: max:

Code set :

ADED-number : 900108

: Calcium per kilogram Name

Synonyms

Definition : Content of calcium per kilogram of wet mass

Comments

Format : type: N length: 5 resolution: 2 unit: g/kg

Values : code set: N min: max:

Code set

ADED-number : 900109

: Lysine per kilogram Name

Synonyms

Definition : Content of lysine per kilogram of wet mass

Comments

Format resolution: 2 : type: N length: 5 unit: g/kg

Values : code set: N min: max:

Code set

: 900110 ADED-number

: Feeding end date Name

Synonyms

Definition : Date of the end of a feeding period

Comments

unit: ccyymmdd Format : type: N length: 8 resolution:

Values : code set: N min: max:

Code set

ADED-number : 900111

Name : Feeding end time

Synonyms

: Time of the end of a feeding period Definition

Comments

length: 6 resolution: unit: hhmmss Format : type: N

Values : code set: N max: min:

Code set

: 900112 ADED-number

Name : Feeding start date

Synonyms

Definition : Date of the start of a feeding period

Comments

Format : type: N length: 8 resolution: unit: ccyymmdd

Values : code set: N min: max:

ADED-number: 900113

Name : Feeding start time

Synonyms

Definition : Time of the start of a feeding period

Comments :

Format : type: N length: 6 resolution: unit: hhmmss

Values : code set: N min: max:

Code set :

ADED-number : 900114

Name : Distribution type

Synonyms :

Definition : Numeric code used to identified the type of feeding distribution

Comments :

Format : type: N length: 1 resolution: 0 unit:

Values : code set: Y min: max:

Code set : Normative: 1 = Restricted; 2 = Ad lib

ADED-number : 900115

Name : Measure type

Synonyms :

Definition : Numeric code used to identify the type of measurement of feed amount distributed

Comments :

Format : type: N length: 1 resolution: 0 unit:

Values : code set: Y min: max:

Code set :

ADED-number : 900116

Name : Total feed amount distributed

Synonyms :

Definition : Quantity of feed component distributed, not standardized

Comments :

Format : type: N length: 8 resolution: 3 unit: kg

Values : code set: N min: max:

Code set :

ADED-number : 900117

Name : Location number

Synonyms :

Definition : Serial number, unique within the farm, given to a certain location

Comments :

Format : type: N length: 5 resolution: 0 unit:

Values : code set: N min: max:

Code set :

.........

: 900118 ADED-number

Name : Location type

Synonyms

Definition : Serial number, unique within the farm, given to a certain location detail level

Comments : Location type allows for the exchange of data from a detail level (amount of feed through a feed actuator), as well as from a

global level (for example, transfer of all animals from a house to slaughterhouse)

Format : type: N length: 2 resolution: 0

Values : code set: Y min: max:

Code set : Code set (normative):

> 1 = enterprise; 2 = farm; 3 = house; 4 = section 5 = pen; 6 = feed actuator; 7 = group; 8 = other

ADED-number : 900119

Name : Process computer number

Synonyms

Definition : Serial number used to identify the process computer in relation to a certain location

Comments

Format : type: N length: 6 resolution: 0 unit:

Values : code set: AN min: max:

Code set

ADED-number : 900120

: Transfer date Name

Synonyms

Definition : Date of transfer of animal(s)

: Date taken into account is the date of the start of transfer, except in the case of transfer from outside of the farm (in this Comments

case, date is the arrival date at the location)

unit: ccyymmdd Format : type: N length: 8 resolution:

Values : code set: N min: max:

Code set

ADED-number : 900121

Name : Transfer time

Synonyms

Definition : Time of transfer of animal(s)

: Time taken into account is the time of the start of transfer, except in the case of transfer from outside of the farm (in this Comments

case, time is the arrival time at the location)

Format : type: N length: 6 resolution: unit: hhmmss

Values : code set: N min: max:

ADED-number : 900122

Name : Location direction

Synonyms :

Definition : Numeric code used to clarify whether an animal comes from the outside or goes to outside the farm

Comments :

Format : type: N length: 1 resolution: 0 unit:

Values : code set: Y min: max:

Code set : Normative : 1 = from outside to inside, 2 = from inside to outside

ADED-number : 900123

Name : Transfer reason

Synonyms :

Definition : Reason the animal(s) was (were) transferred

Comments :

Format : type: AN length: 40 resolution: unit:

Values : code set: N min: max:

Code set :

ADED-number: 900124

Name : To-location number

Synonyms

Definition : Location number where animal(s) is (are) transferred

Comments :

Format : type: N length: 5 resolution: 0 unit:

Values : code set: N min: max:

Code set :

ADED-number : 900125

Name : To-location type

Synonyms :

Definition : Serial number, unique within the farm, given to a certain location detail level where animal(s) is (are) transferred

Comments :

Format : type: N length: 1 resolution: 0 unit

Values : code set: Y min: max:

Code set :

ADED-number : 900126

: To-process computer number Name

Synonyms

Definition : Serial number used to identify the process computer in relation to a certain location where animal(s) is (are) transferred

Comments

Format : type: N length: 2 resolution: 0 unit:

Values : code set: N min: max:

Code set

ADED-number : 900127

: Number of animal(s) transferred Name

Synonyms

Definition : Number of animals transferred together from one location to another location

Comments

Format : type: N length: 4 resolution: 0 unit:

Values : code set: N min: max:

Code set

ADED-number : 900128

Name : Average age

Synonyms

Definition : Average age of a group of animals

Comments

Format : type: N length: 4 resolution: 0 unit: Days

Values : code set: N min: max:

Code set

ADED-number : 900129

Name : Average mass

Synonyms

Definition : Estimated mass of each animal in a group

: Average mass is obtained by the total mass (estimated or measured) of a group of animals, divided by the number of Comments

animals in this group

Format length: 6 resolution: 2 unit: kg : type: N

Values : code set: N min: max:

ADED-number: 900130

Name : Registered total mass of animal(s)

Synonyms :

Definition : Mass of a group of animals, obtained through the use of a weighing device

Comments :

Format : type: N length: 8 resolution: 2 unit: kg

Values : code set: N min: max:

Code set :

ADED-number : 900131

Name : From-location number

Synonyms :

Definition : Location number where animal(s) was (were) located before the transfer took place

Comments :

Format : type: N length: 5 resolution: 0 unit:

Values : code set: N min: max:

Code set :

ADED-number: 900132

Name : From-location type

Synonyms

Definition : Serial number, unique within the farm, given to a certain location detail level where animal(s) was (were) located before the

transfer took place

Comments :

Format : type: N length: 1 resolution: 0 unit:

Values : code set: Y min: max:

Code set :

ADED-number : 900133

Name : From-process computer number

Synonyms :

Definition : Serial number used to identify the process computer in relation to a certain location where animal(s) was (were) located

before the transfer took place

Comments :

Format : type: N length: 2 resolution: 0 unit:

Values : code set: N min: max:

Code set :

ADED-number : 900134

: Farrowing date Name

Synonyms

Definition : Date of farrowing

Comments

Format : type: N length: 8 resolution: unit: ccyymmdd

Values : code set: N min: max:

Code set

: 900135 ADED-number

: Farrowing time Name

Synonyms

Definition : Time of farrowing

Comments

Format length: 6 resolution: unit: hhmmss : type: N

Values : code set: N min: max:

Code set

ADED-number : 900136

Name : Number of piglets born alive

Synonyms

Definition : Number of piglets born alive in a farrowing

Comments

: type: N length: 2 resolution: 0 Format unit:

Values : code set: N min: max:

Code set

ADED-number : 900137

: Number of stillborn piglets Name

Synonyms

Definition : Number of stillborn piglets in a farrowing

Comments

Format resolution: 0 unit: : type: N length: 2

Values : code set: N min: max:

Code set

ADED-number : 900138

: Number of male piglets born alive Name

Synonyms

Definition : Number of male piglets born alive in a farrowing

Comments

Format : type: N length: 2 resolution: 0 unit:

Values : code set: N min: max:

ADED-number : 900139

Name : Litter quality

Synonyms :

Definition : Numeric code used to qualify the litter homogeneity and quality

Comments :

Format : type: N length: 1 resolution: 0 unit:

Values : code set: Y min: max:

Code set : 1=small, 2= average, 3= large, 4= not uniform

ADED-number : 900140
Name : Service date

Synonyms :

Definition : Date of service

Comments :

Format : type: N length: 8 resolution: unit: ccyymmdd

Values : code set: N min: max:

Code set :

ADED-number : 900141

Name : Service time

. Service time

Synonyms :

Definition : Time of service

Comments :

Format : type: N length: 6 resolution: unit: hhmmss

Values : code set: N min: max:

Code set :

ADED-number : 900142

Name : Type of insemination

Synonyms :

Definition : Numeric code used to state whether the insemination is natural or artificial

Comments :

Format : type: N length: resolution: 0 unit:

Values : code set: Y min: max:
Code set : 1= boar, 2= artificial insemination

ADED-number : 900143

Name : Batch number

Synonyms :

Definition : Serial number of the batch used in case of artificial insemination

Comments :

Format : type: N length: 6 resolution: 0 unit:

Values : code set: N min: max:

ADED-number : 900144

Name : Boar number

Synonyms

Definition : Identification number of the boar used in case of natural insemination

Comments

Format : type: N length: 6 resolution: 0 unit:

Values : code set: N min: max:

Code set

: 900145 ADED-number

: Service technician Name

Synonyms

Definition : Name of the technician in charge of the insemination

Comments

Format length: 5 resolution: unit: : type: N

Values : code set: AN min: max:

Code set

ADED-number : 900146

Name : Weaning date

Synonyms

Definition : Date of weaning

Comments

: type: N length: 8 unit: ccyymmdd Format resolution:

Values min: : code set: N max:

Code set

ADED-number : 900147

Name : Number of weaned piglets

Synonyms

Definition : Number of piglets weaned by one sow

Comments : Piglets weaned could be the offspring of another sow

Format resolution: 0 : type: N length: 2

Values : code set: N min: max:

Code set

ADED-number : 900148

: Number of weaned male piglets Name

Synonyms

Definition : Number of male piglets weaned by one sow

: Male piglets weaned could be the offspring of another sow Comments

Format : type: N length: 2 resolution: 0

Values : code set: N min: max:

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