



- Poultry presented for slaughter for human food purposes
- and poultry products

shall be identified in a manner that enables the tracing of

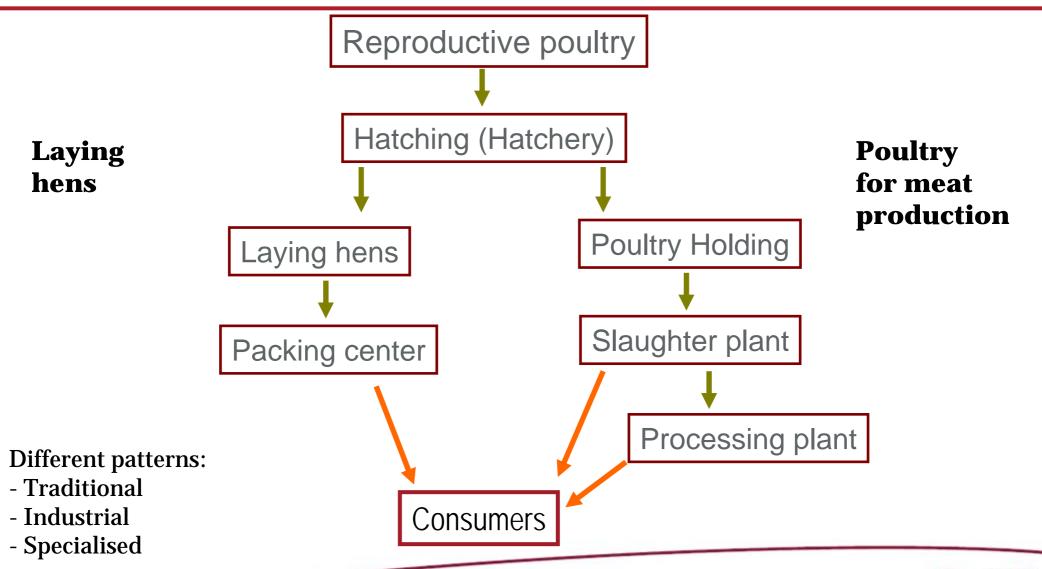
- (A) each animal to any premises or other location where the animal was held at any time before slaughter; and
- (B) each poultry product from slaughter through processing and distribution to the ultimate consumer.



➤ It is not an identification of each poultry or egg with an individual number but a batch number (premises : building or the entire holding)

Depending on the production system and organisation of the various activities, each bird or egg may be identified individually or not.







#### Reproductive poultry

- ➤ 1 male for 100 females
- Identification of reproductive poultry with a ring or wing tag
- Register entry and exit
- Production of fertilised eggs on lines
- > Fertilised eggs sent to the hatchery
- Trolley identified by a label

Trolley number

Name of breeder
Identification number of the farm
Date of laying
Batch number
Line





#### Reproductive poultry

## ➤ Identification of reproductive poultry using a ring

The ring used for the identification of poultry is a numbered closed ring, made of plastic. On the ring the country (e.g. F for France), the diameter in mm, and an identification number is marked. The color is different for each year (blank in 2009; black in 2010). The ring is put on before the bird is 2 months old.





Different diameter of ring according to the breeds: between 16 mm and 24 mm with a maximum of 27 mm

How to put the ring in place =>



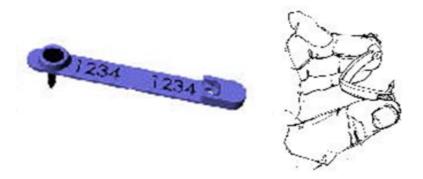


#### Reproductive poultry

➤ Identification of the reproductive poultry with a wing tag

The wing tag used for the identification of poultry can be a plastic or metallic tag.

The wing tag is put after the birth of the animal Printing in INK JET for permanency and contrast to improve readability. All tags are boiled in clean water before dispatch







#### Reproductive poultry

For economy and accuracy of data retrieval in primary poultry breeding establishments.

The pouch is securely fixed but can be re-opened to recover the eD glass transponder.

Readable numbers can be printed on the other side of the wing tag.

Pins are moulded from hard and sharp materials to minimise their diameter.

The target zone on day old chicks is tiny!

Various pin sizes (lengths and diameters) are available for different species





#### Hatching

➤ Incubation period - hatching - delivery

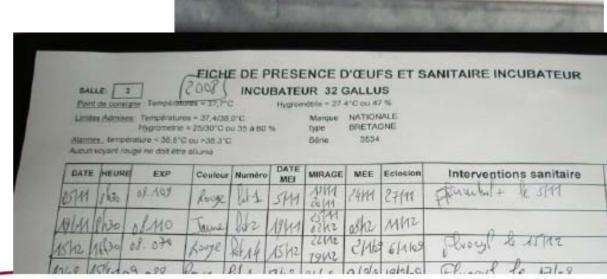


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➤ Label by tray or trolley in the incubator

## Paper data on each incubator

Incubation start date and time
Date moved to hatchery
Date of hatching



# Traceability in poultry production Hatching

## Paper data by hatch

Hatching date

Number of eggs

Number of non-hatched eggs

Number of dead chicks

Number of live chicks



Hatchery name

Batch number

Line

Delivery date

Number of chicks

- ➤ Destination of the chicks: laying hens or poultry for meat production
- > Register with entrance and exit







#### Laying hens

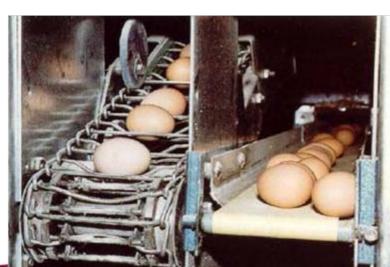
- ➤ One building = one batch
- ➤ Different systems: aviary, cage, alternatives
- Register with entrance and exit, and broken eggs and incorrect size

Each egg is collected and can be marked at the farm

level with food ink

➤ Label on trolley

Name of breeder
Identification number
Laying date
Batch number
Number of eggs





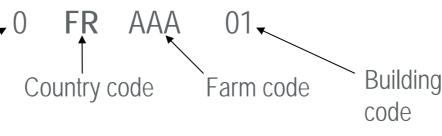


#### **Packing center**

- Register entrance and exit
- Selection of eggs that are suitable for consumers
- ➤ Identification on the shell of the egg with food ink:



breeder identification number and rearing system number + possible date of laying



1 code for the rearing system:0 for biological production,

1 for out door access, 2 for aviary, 3 for cage

Packaging label with bar code







#### Identification of the egg: tools



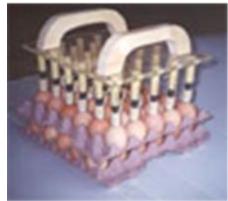
Number of the producer + date of the day with food ink





Egg marker with engraved print engraved print fixed on a dense foam cylinder

Egg markers with bellows (1 or 6 eggs together) the system of bellows adapts to the shape of egg



Egg marker with plugs



Egg marker with jet of ink Speed-I-jet 798
It makes it possible to mark eggs WITHOUT CONTACT and very quickly

they should be pressed on an inking plate before pressing them on eggs



#### **Poultry for meat production**

> After hatching

=> selection for the destination
(laying hens or poultry for meat production)







➤ For specialised production identification by a tag at 1 day old

➤ Packaging label with bar code



#### **Poultry for meat production**

- ➤ On farm: register entrance and exit (link with the document of arrival of a new band)
- ➤ Minimum: identification of the buildings/area of the farm in addition to the identification of the holding
- ➤ Possible identification with a wing tag (for labeled chickens before 6 weeks age)
- ➤ Transport to the slaughterhouse in baskets identified with labels (and possible bar code)







#### **Poultry for meat production**

For specialized production of poultry (organic field, labeled poultry)

=> Identification with a ring

Various types of identification of chicken is variable:

An example: name of the producer

Another example: inscription Bio 01 9362

Bio for Organic farming

01 for certification by ECOCERT (they control the products for certification)

9362 is the identifier at ECOCERT





#### **Special techniques**

## Biothermal FID chip (Digital Angel - 2005)

Can be used to support early warning, eg for avian influenza. Biothermal chips are approximately 10 mm long and are inserted in the bird's breast with a single inoculation





## RFID bird tags

RFID can be used for the management of poultry and birds of all types for tracking and scientific testing applications



IBM, working with Matiq, has developed radio frequency identification (RFID) tracking technology to track and trace chickens from the farm to the supermarket shelf





#### Special cases

#### Rose Poultry A/S uses RFID readable by mobile phone technology

(Denmark's largest manufacturer of chicken products for Danish and overseas customers – 290,000 chickens a day)

Rose Poultry engaged in a partnership with an aim to use novel technology to map consumer behaviour and consumer relationships by connecting the Nokia Mobil telephone technology and poultry products using RFID technology.

=> Survey in supermarkets in Denmark in April 2008

75% of respondents think that RFID labeling is a very good idea for traceability. Respondents were interested in several aspects, such as the chicken's feed, information on testing for salmonella and other bacteria, and whether or not the production is organic

65% would choose a product with RFID labeling over a product without

85% are willing to pay about DKK 2 extra for a product with RFID labeling.





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