







A descriptive study of rearing procedures in western dairy French herds

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The importance of rearing

• Dairy heifers

- 40 to 60 % of animals within a herd
- 18 h / animal reared
- 1 000 to 1 500 € / animal reared

Estimations from previous observations and measures in dairy holstein farms

In addition

- Drastic changes over the recent years (Genetic, Herd size, labor, diversified production systems...)
- Advances in research (see Agabriel et al., EAAP, Heifers management: new questions in an evolutionary context)
- But, recommendations regarding management are 20 / 30 years old !!



The importance of rearing

• Plenty of recent studies on practical aspects of herd management for dairy cows...

...very few on heifers !!!

- Aim of present study:
 - Better knowledge of rearing practices within dairy French farms
 - Informations on how advances and recommendations are used in practice by farmers
 - Farmers « feelings » concerning rearing heifers

A focus on dairy heifer herd management systems employed in low lying plain zone, the Pays de la Loire Region

Materials & methods

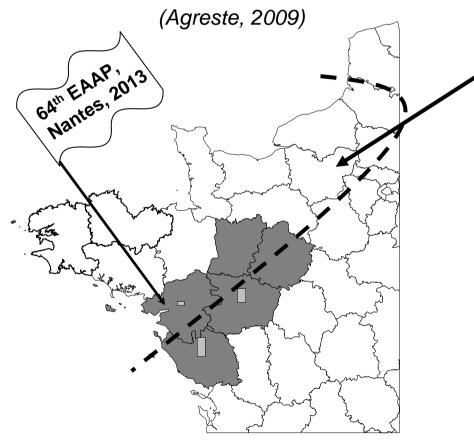
- A questionnaire (15-20 min), from Nov 2009 to March 2010
- 9 core themes, 36 questions (several forms)
 - Part 1: main defining features of farm and local environmental position
 - Part 2: production (calving, weaning, reproduction...)
- 449 farms involved, by 117 technicians from French Livestock enginering agencies involved in milk production and/or animal growth

Results

Pays de la Loire

15 % French production, 3.5 billions l/yr

West of France: (*including Pays de la Loire, Brittany and Normandy*): 50 % production of National production





Selected sample

18 to 138 dairy cows (47 on average)

5 097 to 11 918 kg/cow/lactation (7 953)

64 % of herds exclusive Ho, 14 % No, 3 % Mo (others *= crossbreds and several breeds*)

2/3 of herds = another livestock operations (pigs, chickens...)

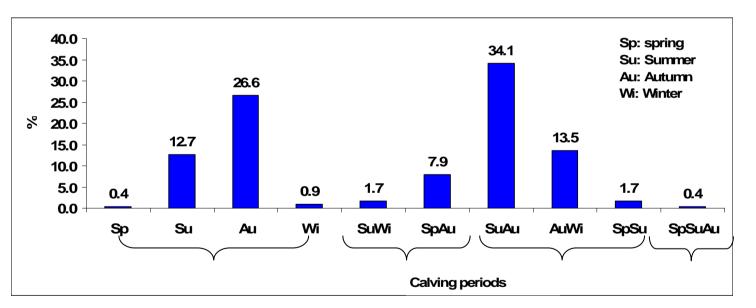
1 to 7 full-time workers

Classical cares for heifers management

- Group management in most cases: easier with

homogeneity (BW, age)

Farms employing a batched calving strategy (n = 229)



Calvings during Su /Au or (Su +Au): more than 70 %

Heifers management before weaning

Colostrum

53 % of calves separated from mother immediatly after birth

(exposure to pathogens; initial veterinary care, colostrum feeding under control vs wellfare, socialisation behaviour)

2.2 I colostrum rapidly (bucket / bottle: 48.4 / 50.4 %; 1.2 %: stomach tube)

Milk feeding phase

Whole milk (258) / milk powder (149) / combination (36)

98 % natural form

Complementation

Concentrate and fodder (straw / hay)



Heifers management before weaning

• Dehorning: 96 % of herds

- Hot iron dehorning (87 %) or chemical paste (11%)
- 1.6 (+ 1) mo of age, 25 % after 3 mo
- No local anesthetic / painkillers in most cases



• Weaning

- 2.9 (+ 0.7) mo of age in 72 % of case
- 31, 38 & 31 % at less than 2.5, 2.5-3.5 and >3.5 mo of age respectively
- 37 % of case: BW (105 + 16 kg)

Heifers management after weaning

Post-weaning

- Pasture grazing: 8.9 (+ 3.1) mo of age
- 82 % reared in groups (age / BW)



• **Special plots**, reserved and adapted to age of animals

Reproduction

- Muticriteria decision (weight alone or combined: 310 farmers)
- 98 % : heifer detection visually

• At 1st calving

- Age: 24 (43.5 %), 30 (41.9 %) and 36 mo (10.2 %) (earlier in Ho)
- BW: at least 580 (12.2), 610 (34,0) or 630 (21.5%) kg

But very few weighted their animals !!!

Farmer-estimated daily spent on heifer care and rearing (n = 445)



Daily time spent to take care of heifers according to farmers *(main answer)*

61.5 % of farmers: it is a necessity

36.4 % of them: they enjoy

2.1 % of farmers: it is a chore !!!

General conclusion

• Less interest for heifers management / cows

- Long-term effects not known?
- No rapid return on-investment?
- Luck of technical skills ? Advices ? Too expensive ?...
- But today's production: reducing all production costs, including rearing costs:
 - Reducing non-productive days, i.e; decreasing age at 1st calving (< 24 mo ?)
 - Better control of animal growth

As in other countries: more appropriate management would result in improved production, breeding and general performances