





The effect of sex on performance and carcass quality in commercial pig farms

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The choice between raising immunocastrates or entire males as an alternative to barrows, has implications in terms of growth performance and carcass quality. Studies conducted in experimental conditions may not reflect reality on pig farms.

Conclusion

- ✓ Evaluation of sexes:

In this study, we wanted to investigate the differences between barrows (BA), entire male pigs (EM) and immunocastrates (IC) under commercial conditions in Belgium: fed with commercial feed, housed in larger groups and slaughtered at varying slaughter weights.

Material and methods



Results

Animals

- 3 commercial farms
- Piétrain x hybrid sow
- BA, EM and IC (2nd vaccination \bullet 4 weeks before slaughter)

Performance

- ADFI: daily feed intake
- ADG: daily gain
- FCR: feed conversion ratio

Carcass quality

- between 99 and 138 kg
- individual data collection

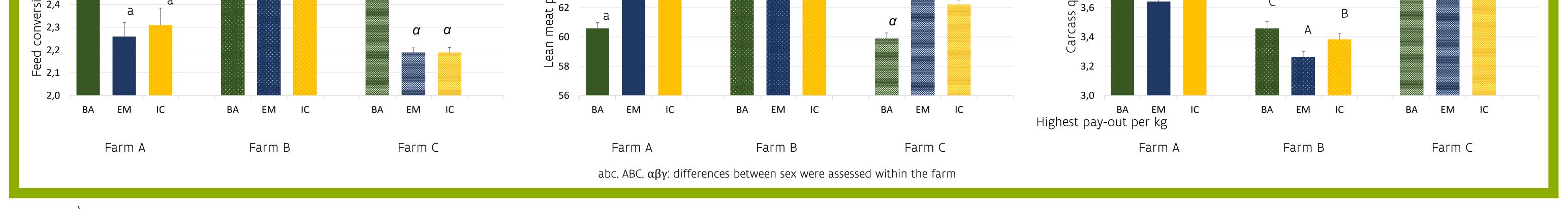
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- BA: worst FCR and pay-out + IC: higher ADG \rightarrow more rounds/year + EM: higher lean meat %, less fat

 Farm had a significant effect on all parameters, but we found no interactions between farm and sex

	Barrows (BA)	Entire male pigs (EM)	Immunocastrates (IC)
<pre># pens # pens # animals Performances</pre>	Farm AFarm BFarm C81024728874• Highest ADFI• Higher ADG• Higher FCR	Farm A Farm B Farm C 8 10 24 59 93 73 • Lowest ADFI • Lower ADG • Lower FCR	Farm A Farm B Farm C 8 10 24 87 95 73 • Intermediate ADFI • Higher ADG • Lower FCR
Carcass quality	 Higher dressing % Lowest lean meat % Highest backfat thickness 	 Lower dressing % Highest lean meat % Lowest backfat thickness 	 Lower dressing % Intermediate lean meat % Intermediate backfat thickness
Paad aar	version ratio (kg/kg)	Lean meat percentage (%)	Lowest pay-out per kg Carcass quality index





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