

Inclusion of silage in pig diets – effect on production and health

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Let's utilize the full potential in forage production

- Local production
- Beneficial effects in the crop production
- Protein and amino acids
- Animal welfare
 - Enrichment
 - Stomach health



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Feed trial

- 4 treatments, n=128, 30-110 kg
- Control, pelleted silage, 2x TMR

Data collection

- Weighing every 2nd week until 90kg → every week until slaughter
- Slaughter data
- Stomachs from 40 animals, 10 per treatment (one with 11)

Data analysis

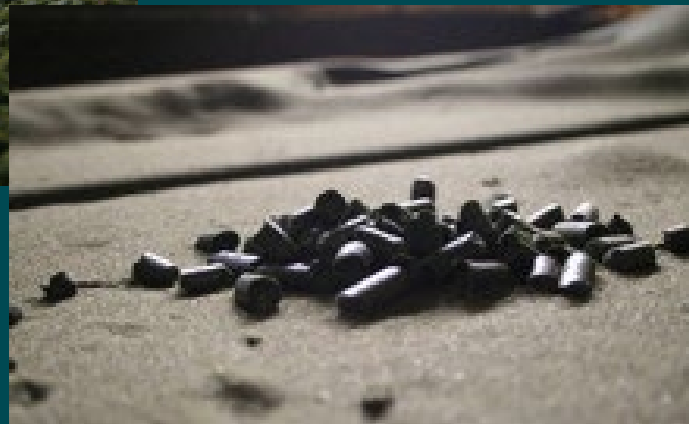
- Daily weight gain
- Carcass conformation
- Stomach ulcers, score 0-5



Control, C
Commercial compound feed



Pelleted silage, SP
Compound feed
with silage inclusion

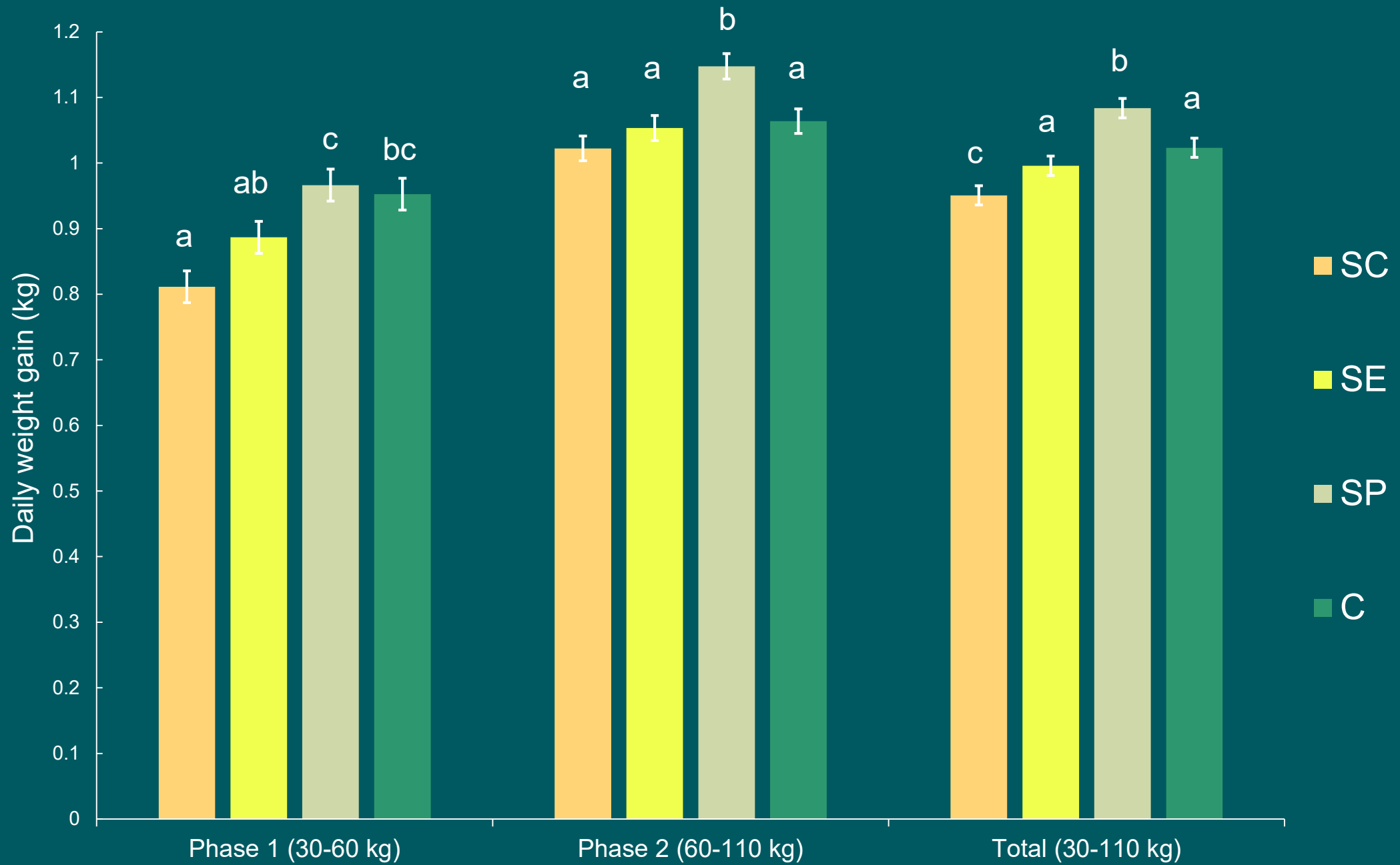


TMR, SC
Chopped silage 4-15mm



TMR, SE
Intensively treated silage 1-3 mm

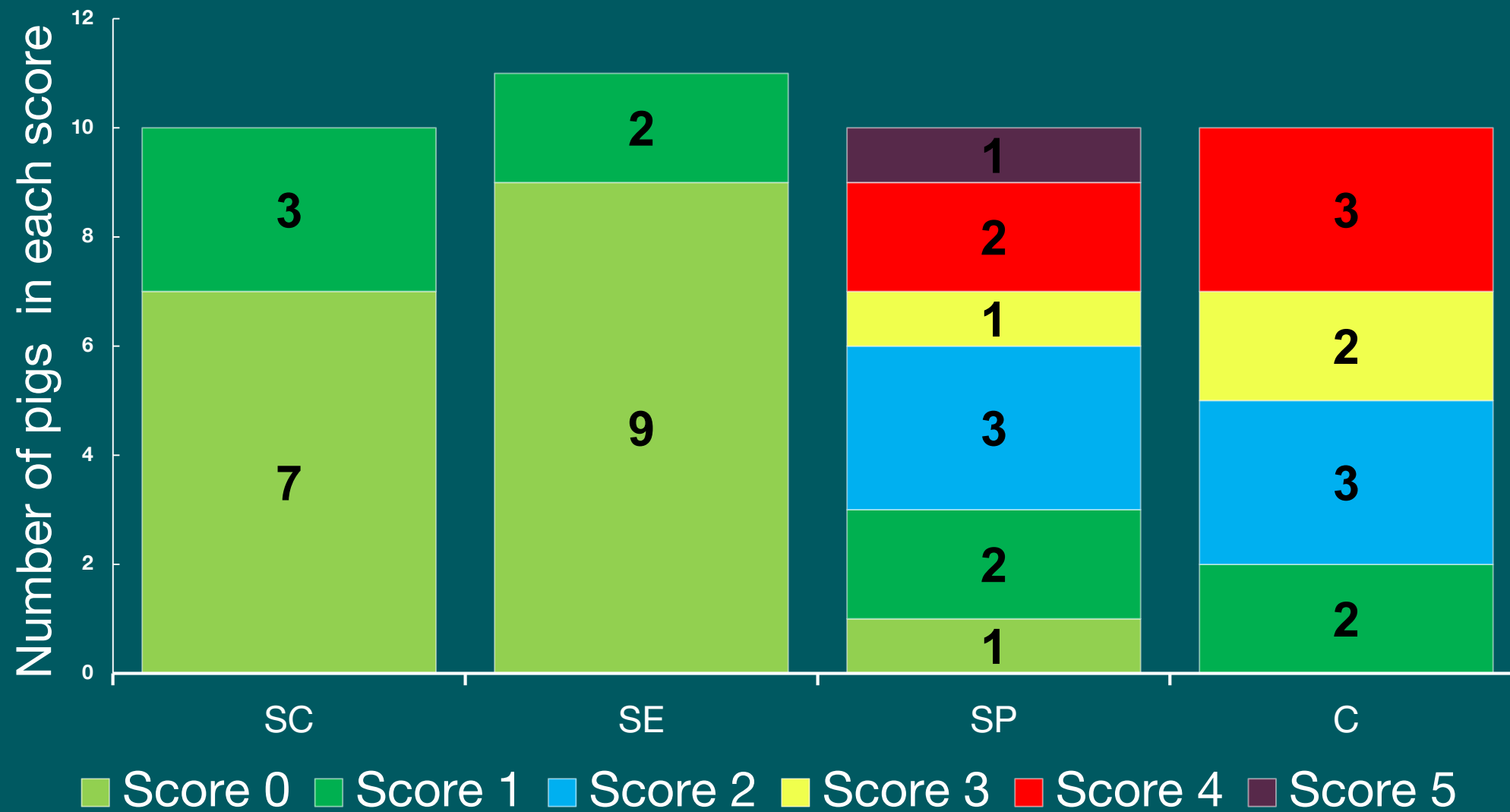
| | SC | SE | SP | C | |
|---------------------|--------------------|---------------------|--------------------|---------------------|------|
| | (N = 31) | (N = 31) | (N = 30) | (N = 32) | SE |
| Total days in study | 83.8 ^b | 81.9 ^{ab} | 78.7 ^a | 80.2 ^{ab} | 1.53 |
| Final weight (kg) | 111.5 ^a | 113.4 ^{ab} | 117.7 ^b | 114.7 ^{ab} | 1.5 |



| | SC | SE | SE | C | |
|-----------------------|-------------------|--------------------|-------------------|--------------------|-----|
| | (N = 31) | (N = 31) | (N = 31) | (N = 32) | SE |
| Carcass weight (kg) | 81.1 ^a | 82.5 ^{ab} | 85.3 ^b | 84.6 ^{ab} | 1.1 |
| Lean meat content (%) | 61.5 | 60.9 | 60.8 | 60.7 | 0.5 |

- **Weight interval for best payment: 75-99.9 kg**
- **Lean meat content: 58%**
 - Added payment if LMC 59-62%

Results – stomach ulcers



Control, C



Pelleted silage, SP



Intensively treated silage, SE



Chopped silage, SC



Summary

- Finer particle and TMR increase feed intake
- Maintained growth potential and carcass conformation
- Decreased stomach ulcers

