

Investigation on the effects of supplementation of chickpea husk and boiled sesame meal on the performance of growing bulls in Myanmar

Aung Aung, Khin San Mu, Moethida Htun, Mar Mar Kyi, Tin Ngwe, Ni Ni Maw
Department of Physiology and Biochemistry, University of Veterinary Science, Myanmar

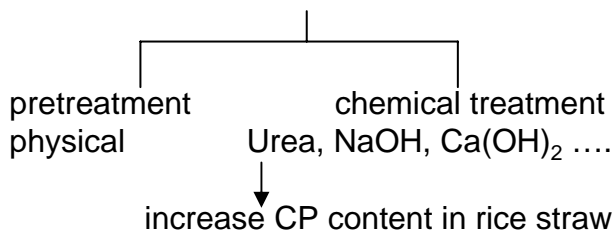
Conclusion:

Chickpea husk at the level of 0.2 % BW and boiling method for sesame meal showed lower cattle performance than others

Introduction

- ❖ Rice straw is the low quality roughage for ruminants
- ❖ To overcome its low quality, that can be improved:

- Supplementation
- Treatment



- ❖ Chickpea husk contain easily digestible fibre which induce activity of cellulolytic bacteria in rumen

Measurements

- ❖ Daily weight gain
- ❖ TDNI
- ❖ Digestibilities of nutrients



Own investigation

Animals- 4 growing bulls

- ❖ Experiment- 2 x 2 Factorial experiment
- ❖ Design- 4 x 4 Latin Square
- ❖ 4 diets - RUSC₁, RUSC₂, RBSC₁ and RBSC₂
- ❖ Experimental Period-
- ❖ Adaptation - 15 days
- ❖ preliminary feeding - 7 days
- ❖ voluntary intake - 16 days
- ❖ collection period - 3 days

Findings

Digestibilities of Nutrients of RUSC₁ was highest

TDNI g/d kg BW^{0.75} /d

- RUSC₁-83.62
- RUSC₂- 80.74
- RBSC₁-81.93
- RBSC₂-80.76
- ❖ Daily weight gains (kg/d)
- RUSC₁- 0.82
- RUSC₂- 0.67
- RBSC₁- 0.51
- RBSC₂- 0.64

But, no significant differences ($p < 0.05$)

RUSC₁: Urea-treated rice straw + Untreated sesame meal + chickpea husk at the level of 0.1% of liveweight

RBSC₁: Urea-treated rice straw + boiled sesame meal + chickpea husk at the level of 0.1% of liveweight

RUSC₂: Urea-treated rice straw + untreated sesame meal + chickpea husk at the level of 0.2% of liveweight

RBSC₂: Urea-treated rice straw + boiled sesame meal + chickpea husk at the level of 0.2% of liveweight