Challenges of designing pig diets using local feedstuffs for Ugandan subsistence farmers

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Outline

• Uganda
• Feedstuffs
• Challenges
• Diets
• Trial
• Farmers’ response

Photo: sendacow.org.uk
Map: daneenleidig Photo: N.Carter
Photos: doomsteaddiner.org and N. Carter

Dewey et al. 2011
Housing from local materials

Photo: E. Smith
Tethered and tied under a tree

Photo: ILRI
Free-range management

Photo: N. Carter
4.3km per 12h! 76% of their time

Thomas et al. 2013
Photos: L. Thomas
Average daily gain = 130 grams/day

Photos: E. Smith

Carter et al. 2013
Village boar

Photo: C. Dewey
Fresh feedstuffs

Photos: C. Dewey and N. Carter
Purchased feedstuffs

Photos: C. Dewey and N. Carter
Agricultural co-products

Photos: N. Carter
Kitchen scraps and leftovers

Photos: C. Dewey
Human/pig food/feed competition

Photo: N. Carter
Poor roads

Photos: F. Mutua
Basic or no transportation

Photos: E. Smith, N. Carter, C. Dewey
Finding a solution

• ADG of local and local x exotic pigs
• Nutrient requirements
• Sample feedstuffs and nutrient analysis
• Seasonal availability and cost per kg
• Least-cost balanced diets

Photos: N. Carter
Local diet

Photo: N. Carter
Local and commercial diets

Photos: N. Carter and E. Smith
Silage diet

Photo: N. Carter
Silage diet

Photos: N. Carter
Silage diet

Photo: N. Carter
Preliminary trial results

- Better suited to bigger pigs
- Commercial > silage > local

Photos: N. Carter
Workshops

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Questions?

Photo: N. Carter
References

