INTEGRATED PIGLET AND TREE BIOMASS PRODUCTION

MALENE JAKOBSEN, PHD STUDENT AARHUS UNIVERSITY

LACTATING SOWS

EXPERIENCE FROM GROWING PIGS
On-farm experiment

6 poplar trees
20% tree cover
4 sow batches: 14 sows in each batch
URINATIONS

Deviation between expected and observed urinations, %

- zone 1 (grazing)
- zone 2 (feed)
- Zone 3 (hut)
- Zone 4 (trees)
DEFECATIONS

Deviation between expected and observed defecations, %

- Zone 1 (grazing)
- Zone 2 (feed)
- Zone 3 (hut)
- Zone 4 (trees)
Urinations
Defecations

WALLOW AREA

FEED

WATER

ZONE 1 (9m)

ZONE 2 (9m)

ZONE 3 (9m)

ZONE 4 (6m)

27 m

6 m

27 m

10 m

No access to trees (NAT)

HUT

10 m

With access to trees (AT)

N
ESTIMATION OF FAECES DISTRIBUTION AND LOAD
SOIL MINERAL NITROGEN

total N kg/ha
fall 2015, 0-50 cm

- - - - AT

NAT
< - 15
15.1 - 20
20.1 - 25
25.1 - 30
30.1 - 35
35.1 - 40
40.1 - 45
45.1 - 50
50.1 - 75
75.1 - 100
> 100.1
Location of trees

Nitrogen leaching:
Tree area ↓
75% compared to grass area
SPATIAL DISTRIBUTION OF RESOURCES:
Focus?
Sows: elimination behaviour
Trees: increase trees cover - tree density