

# GRASS UTILIZATION IN GROWING FINISHING BISARO PIGS (85 – 107 Kg )

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## OBJECTIVES

The aim of this study was investigate the influence of diets using fresh grass during growing-finishing period of Bísaro pig on growth, carcass and meat quality.

## METHODS

A total of 22 Bísaro pigs were housed outdoor and fed *ad libitum* from 37 to 85 kg live weight with a growing diet and then transferred to an indoor system (with free access to a outdoor area) for 49 days, according to 3 different treatments (Diets):



Symbol	TREATMENTS: FINISHING DIETS DURING 49 DAYS
<b>C</b>	Concentrate (100%)
<b>CE75</b>	Concentrate (75%) = 1,8 Kg/d Grass <i>ad libitum</i>
<b>CE50</b>	Concentrate (50%)= 1,5 Kg/d Grass <i>ad libitum</i>

During finishing fase, grass consisted of a comercial mixture (*Avena*\**Vicia villosa*\**Trifolium subterraneum*\**Lolium perenne*). It was supplied fresh and the daily intake registered.



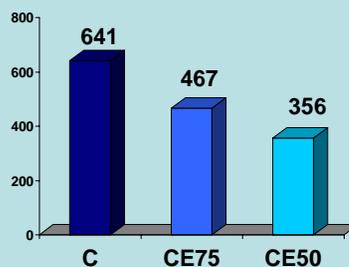
Grass chemical composition	
DM %	20,5
Crude Fibre (CF) %	29,8
NDF g/kg MS	615
Digestible Energy (DE) MJ /kg MS	7,56
Crude Protein (CP) %	9,9

## RESULTS

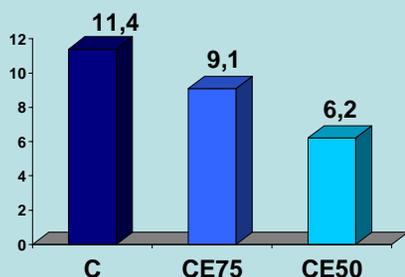
### Dry Mater and Energy intake

	<b>C</b>	<b>CE75</b>	<b>CE50</b>
Concentrate (kg DM/animal)	113,8	75,9	37,9
Energy intake DE MJ	1482 (100%)	988	493
Grass (kg DM/animal)	0	39,7	52,2
Energy intake DE MJ	0	300	395
Total DM intake (Kg /animal)	113,8	115,6	90,2
Total Energy intake DE MJ	1482	1288 (-13%)	888 (-40%)

### Average daily gain (g/day)



### In Vivo Fat Deposition P<sub>2</sub> during finishing fase (mm)



### Carcass traits

	<b>C</b>	<b>CE75</b>	<b>CE50</b>	P-value
Cold carcass weight (kg)	90,2	81,6	76,3	*
Carcass yeld (kg)	77,6	75,9	74,7	*
% Lean	46,3	48,5	49,4	NS
Back fat thickness P <sub>2</sub> cm	31,0	24,1	21,9	NS
Loin area cm <sup>2</sup>	39,5	40,0	35,9	0,1
pH <sub>45 min</sub>	6,04	6,23	6,34	*
pH <sub>ultime</sub>	5,32	5,37	5,38	NS

## CONCLUSION

- Concentrate substitution for grass showed a slower growing rate, thinner carcasses and suggest a high technological meat quality.
- In practice, fibre utilisation (grass) in growing-finishing Bísaro pigs can be used in extensive systems (outdoor, biological and tradicional), but its sucess will depend on correct management and on the goals of these systems – meat quality improvement.