Alentejo pig breed nipple (Sus ibericus) preliminar scientific notula (I)

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in

De Pedro E.J. (ed.), Cabezas A.B. (ed.).
7th International Symposium on the Mediterranean Pig

Zaragoza : CIHEAM
Options Méditerranéennes : Série A. Séminaires Méditerranéens; n. 101

2012
pages 93-96

Alentejo pig breed nipple (*Sus ibericus*) preliminar scientific notula (I)

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Abstract. The Author discuss the theme of this scientific notula, the results are preliminary, just to underline the danger of extinction and reproductive goodness of this genetic line on the characteristic numerical productivity (Pn) of the sow without nipple Alentejo and the Iberian autochthonous pigs breeds, both belonging to the Iberian Stocks.

Keywords. Boar Alentejo – Sow Alentejo – Nipples – Numerical Productivity.

La race porcine Alentejo à papilles (Sus ibericus) : note scientifique préliminaire (I)

Résumé. *L'auteur aborde le thème de cette note scientifique, dont les résultats sont préliminaires, juste pour souligner le danger d'extinction et l'intérêt de cette lignée génétique pour la reproduction en raison de la caractéristique productivité numérique (Pn) de la truie d'élevage sans papilles des races de porcs autochtones de l'Alentejo et Ibérique, appartenant toutes deux au Tronc Ibérique.*

Mots-clés. *Verrat Alentejo – Truie Alentejo – Papille – Productivité numérique.*

I – Introduction

The Agricultural School, Polytechnic Institute of Beja, began its administrative activities (July 15, 1985) and academic (Academic Year 1986/87) and from the Academic Year 1993/94, first proceeded to the layout of the facility the holding of Alentejo Pig Breed Herdade Agropecuária das Rascas in System Camping in Parks (100 mx 40 m) outdoors. Furthermore, we developed R & D, (Oliveira, 2000, 2008), studying some of the major productive and reproductive traits of Sows Alentejo Breeds founders of the holding, as can be seen in reports of work on graduation (Andrade, 1997 and Costa, 2001) and community support.

The Agricultural School, Polytechnic Institute of Beja, and the Herdade Agropecuárioa das Rascas (area 147.50 ha), the reserved area will be holding Alentejo Pigs Breeds corresponds roughly to 1.5 ha, divided into 4 (four) parks, 1 - Parturition / Create, 2. Mating, 3. Rearing and 4. Finishing / fattening, respectively. So we left early in the installation of a herd of 10 (ten) Reproductive's Breeding, 9 (nine) gilts and a boar, Breed Swine Alentejana without nipples.

Thus, from 2005 to date, we decided to analyze and compare the numerical productivity (Pn) of Alentejo sow (without nipples), when mated with the boar Alentejo nipples (experimental test 2006-2009). It is noted that in the literature, the average Pn breeding of Alentejo sow is 6.5 piglets per litter.

Currently, the Herdade Agropecuária das Rascas has a herd of this pig breeds (Figs. 1, 2 and 3), consisting of nine (9) sows without nipples, six (6) piglets castrated, eight (8) young sows, 1 (one) boar nipples, two (2) Varrasquetes (young boars) nipples and 17 (seventeen) piglets, a total of 43 (forty three) heads of animals.

Indeed, the goodness of the Iberian breed boar's nipple is proven since the fifteenth century (Alonso Herrera, 1513), as indicated Clement *et al*. (2006), whereas in Alentejo Pig Breed ... "Professor Miranda do Vale, mention of a red pig (Pork Alentejo nipples), since 1920, but says

that there are very few in number, so it is a strain endangered ". Also according to Miranda do Vale (1949), quoting Dr. Janeiro tells us: "Currently there is a variety of race Alentejo redhead (nipples), with one representing very small and tend to reduce further, perhaps to disappear ...". For that reason since 2006 we decided to carry out this experimental work, although preliminary, because it is a line in danger of extinction and the data and the results of the actual records are scarce (in this particular case of a single exploration), as is evident this line is in danger of extinction according Sieuve Monteiro (1985) and FAO-Report (1992 and 2002 and more recently in the research work presented in 2006).

II – Objective

The purpose of holding the Escola Superior Agrária do Instituto Politécnico de Beja is the preservation of indigenous livestock species lines, particularly the autochthonous Alentejo Pig Breed for didactic-pedagogic, R & D and community support.

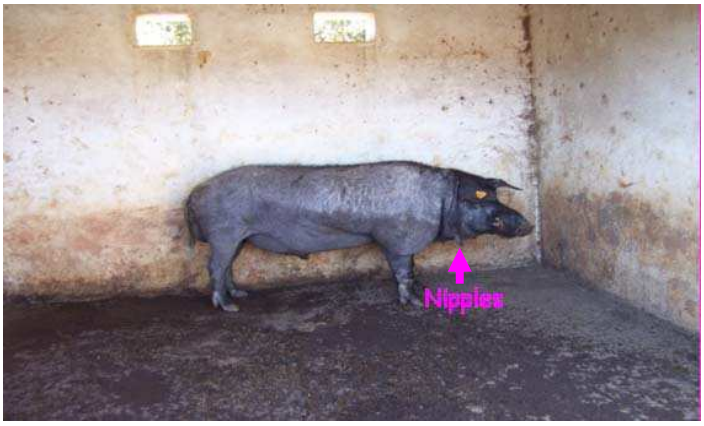

Fig. 1. Alentejo boar with nipples.

Fig. 2. Alentejo breed reproductives sows with nipples and without nipples.

Fig. 3. Alentejo piglets with nipples and without nipples.

III – Materials and methods

For this work, we use the breeding sows without nipples and with nipples above the farm where we note the numerical productivity (Pn) of their litters of sows, from 2006 until 2009, and proceeded to simple statistical analysis of variance and ANOVA with simple interpretation the results (Microsoft Office Excel, 2007)

IV – Results and discussion

Preliminary results from our test that we present in Table 1 and Fig. 4 (2006-2009), despite not differ significantly, there is a clear numerical superiority in Pn1 in relation to Pn, which we think is due to the effect of Alentejo Boar Breed nipples as referred Clement *et al*. (2006), concerning the goodness of reproduction (pleiotropic effect) of the Iberian Boar Breed nipples.

Table 1. Comparison of numerical productivity (Pn) of Alentejo reproductive sows (Alentejo boar breed without nipples vs Alentejo boar breed nipples) Agricultural School, Polytechnic Institute of Beja Exploração Agropecuária das Rascas

Year	Pn		Pn1		P	SIG
2006 – N = 21	N=18	4.72±1.02	N=3	7.33±0.58	0.541627	NS
2007 - N = 21	N=18	4.89±1.02	N=3	7.33±0.58	0.541381	NS
2008 - N = 20	N=15	5.13±0.99	N=5	7.40±0.55	0.541461	NS
2009 - N = 13	N=8	5.75±0.46	N=5	7.40±0.55	0.541223	NS

N - Number of breeding sows Alentejo without nipples and with nipples analyzed.
Pn - Numerical productivity of sows Alentejo breed covered by boar of Alentejo breed without nipples.
Pn1 - Numerical productivity of sows Alentejo breed covered by boar Alentejo breed nipples.
P - Probability. SIG - Significance. NS - Not significant.

V – Conclusion

Considering our results, although preliminary, there is the pleiotropic effect of the Boar Nipples on Productivity number (Pn1) of the breeding Sow Alentejo without nipples, so we recommend the implementation of more work of this nature in order to further study this parameter, taking

into account their economic and financial importance, whatever the operating system of native pig breed Portuguese.

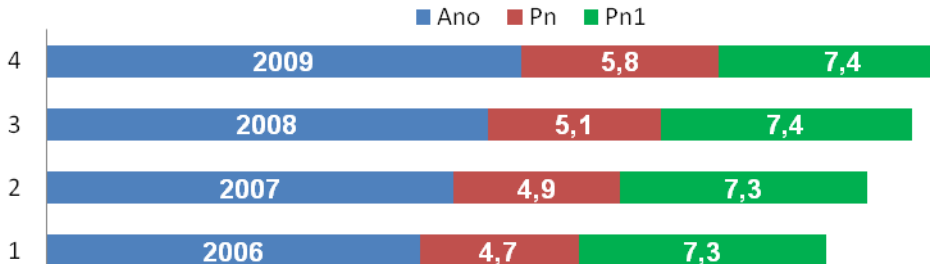

Fig. 4. Boar Alentejo breed nipples effect on numerical productivity (Pn1) of so Alentejo breed without nipples. Herdade Agropecuária das Rascas – Preliminar results.

Acknowledgments

The Author thanks all / those directly and indirectly contributed to this work

References

Andrade C. M. L., 1997. *Estudo de algumas características produtivas e reprodutivas do porco Alentejano (Sus ibericus)*. Trabalho de Fim do Curso, Bacharelato em Produção Animal. ESA/IPB. Beja

Clemente I., Membrillo A., Azor P., Dorado G., Rodero A. and Molina A., 2006. Algunas consideraciones sobre las diferentes clasificaciones del tronco porcino ibérico: una propuesta integradora. In: *Solo Cerdo Ibérico*, 16: 7-18

Costa C. S. T., 2001. *Estudo de principais parâmetros zootécnicos com vista à selecção de reprodutores do porco Alentejano (Sus ibericus)*. Trabalho de Fim do Curso, Bacharelato em Produção Animal. ESA/IPB, Beja

FAO–Report, 1992. Expert Consultation on the Management of Global Animal Genetics Resources. Rome,

FAO-Report, 2002. Expert Consultation on the Management of Global Animal Genetics Resources. Rome, April, 7-10

FAO, 2006. Congresso Nacional de Zootecnia, 25 y 26 de octubre de 2007

Miranda Do Vale J., 1949. *Gado Bissulco*. Colecção a Terra e O Homem. Livraria Sáda Costa, Lisboa.

Microsoft Office Excel, 2007. Programa Informático de Cálculo e de Análise Estatística.

Oliveira A. R., 2000. *Estudio de las Características de la Canal y de la Grasa del Cerdo Alentejano (Sus ibericus)*.Tesis Doctoral. Universidad de Extremadura. Facultad de Veterinaria, Cáceres, 168 pp.

Oliveira A. R., 2008. *Porco Alentejano Mamilado*. Escola Superior Agrária do Instituto Politécnico de Beja, Beja.

Sieuve Monteiro L., 1985. *Conservação e Exploração dos Recursos Genéticos Animais*. Trabalho Policopiado.