



THE IBERIAN PIG GENETIC IMPROVEMENT SCHEME

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1. AECERIBER: Spanish Iberian Pig Breeder's Association

Foundation in 1985 with 1,600 members from then; 850 at present

Herd Book creation in 1987 ⇒ included 250,000 sows and 18,000 boars; 115,000 and 5,800 at present

First Genetic Estimates in 1992 ⇒ until present 6,500 records for Finishing Cycle Index & 50,000 records for Piglets Index

3. THE GENETIC SCHEME FOR IBERIAN PIG: Finishing Index

Genetic-economic index including

- Daily growth in *montanera* period
- Trimmed hams and forelegs weights
- Loins weight

Control of Intramuscular fat percentage measured in loin by NIRs



6. FINISHING INDEX: Data

- around 6,500 slaughter pigs
- born from 500 boars and 2,500 sows
- from 55 herds and 85 slaughter series
- results ⇒ annual Stud Boar Catalogue

2. THE GENETIC SCHEME FOR IBERIAN PIG: Piglets Index

Piglet weight at 90 days of age

Focussed to farmers who sell piglets or young breeding animals



4. FINISHING INDEX: Management design

- ✓ 500 pigs controlled per year
- ✓ 20 to 30 castrate males chosen from several herds, one group born in spring and another group born in autumn
- ✓ common extensive management and feeding production system
- ✓ transferred to the same farm at 5 months of age
- ✓ slaughter at 150-170 kg with 15-17 months of age
- ✓ same slaughterhouse in several slaughter series

5. FINISHING INDEX: Analysis model

- multivariate BLUP-animal model
- slaughter series effect (included year-season effects)
- herds effect
- covariable: carcass weight



7. MEANS, HERITABILITIES AND GENETIC CORRELATIONS

	Means	DG	HAMS	FORELEGS	LOINS	IMF
DG	590 g/d	0.46	0.00	-0.03	-0.04	-0.05
HAMS	16.53%		0.40	0.69	0.59	-0.19
FORELEGS	11.00%			0.48	0.36	0.07
LOINS	2.49%				0.43	-0.23
IMF	9.61%					0.37

Genetic correlations between IMF and % of the main premium cuts and GD shown values slightly negative

7. RESULTS: Example of farmer's report

BOARS BREEDINGS VALUES ESTIMATES

BOARS id.	BREEDING VALUES				INDEX			BREEDING VALUES (loin sample)			
	DG	HAMS	F_LEGS	LOINS	GEN-ECON	TIPIFIED	CATEGORY	FAT	HUMIDITY	PROTEIN	SIRE BOAR'S
XX 185338	-53.11	0.6507	0.3209	0.1332	9.12	113	GOOD	-1,7003	1,0777	0.5577	XX 58775
XX 196553	19.62	1,0407	0.4726	-0,0167	15.87	124	VERY GOOD	-1,2337	0.8370	0.3375	XX 58780

SOWS BREEDING VALUES ESTIMATES

SOWS id.	BREEDING VALUES				INDEX			BREEDING VALUES (loin sample)			
	DG	HAMS	F_LEGS	LOINS	GEN-ECON	TIPIFIED	CATEGORY	FAT	HUMIDITY	PROTEIN	SIRE SOW'S
XX 124560	8.95	-0,0771	-0,1988	-0,1329	-3,12	93	BAD	-0,1749	0,3929	-0,1544	RF
XX 124562	-5,77	0,2001	0,0375	0,0907	3,32	104	ACCEPTAB.	0,5833	-0,3069	-0,1871	RF
XX 124563	-44,53	0,1238	0,0541	0,0464	0,64	99	ACCEPTAB.	0,0284	-0,0763	0,0505	RF
XX 124565	10,24	0,3814	0,0956	-0,0524	5,00	106	GOOD	0,7578	-0,3590	-0,2958	RF
XX 141518	25,01	0,8465	0,2052	0,0278	12,58	119	GOOD	-1,7541	1,1443	0,5293	XX 37564
XX 185342	-29,10	0,6764	0,1576	0,0757	8,75	112	GOOD	-0,6389	0,3020	0,2925	XX 37564
XX 185345	59,46	0,6793	-0,1149	0,0885	10,52	115	GOOD	-0,5907	0,3043	0,2509	XX 37564
XX 196549	-39,40	1,1018	0,4920	0,1941	16,67	125	VERY GOOD	-0,8104	0,3562	0,3512	XX 185339