acruga

Catalogue of Stud Bulls
GALICIAN BLOND BREED

2015

CONTENTS

INTRODUCTION

We are pleased to present here the 2014-2015 edition of the Stud Bull Catalogue for the Galician Blond breed (Rubia Galega). This catalogue has been designed as an essential and easy-to-use tool for technicians and breeders when it comes time for them to select the right bull to be used in any given case.

We are also thankful for the collaboration from the various ranches that contribute to this breed's Genealogy Book, who have provided data that was used in order to produce this catalogue.

The large number of progeny that may be obtained from each stud bull, combined with the performance monitoring program carried out by the Association, generates a high volume of data that is essential for determining the genetic value of the bulls.

The genetic values derived from the 2013 performance monitoring data have been used to produce this catalogue. Specifically, these results were produced based upon 293,033 genealogies and 296,147 weights (at birth and at 210 days), and environmental factors were also taken into account. Our objective is to ensure maximum reliability for the genetic indexes through the use of the appropriate animal evaluation model (BLUP). The work was performed using a total of 234,301 animals (82,033 male and 152,268 female).

In relation to a ranch's profitability, it is very important for the appropriate bull to be selected for each cow or heifer, with consideration of both the conformation and the genetics.

The genetic lines of both the sire and dam must be taken into account in order to prevent problems related to inbreeding. The productive and morphological characteristics of the bulls must also be evaluated in order to determine which one is best adapted to each female, in order to ensure the best production.

In this catalogue we therefore display the most relevant information for the bulls, including their genetic value, or in other words, their ability to transmit the characteristics that will provide improvement in their progeny.
This edition is presented using three categories:

> - Proven bulls
> - Bulls with individual evaluation (progeny testing in progress)
> - Bulls with individual growth evaluation

The overall objective has been to provide ranchers with bulls that will be useful for achieving their desired performances, and taking improvement of their herds into account.

Acknowledgements

- We would like to thank all of the ranchers who provide daily collaboration by supplying data on their herds for the Genealogy Book.

- We must also acknowledge the various government institutions that have trusted us (ACRUGA) to establish agreements used to pursue genetic improvement of the Galician Blond breed and to manage the breed's Genealogy Book and Improvement Programme.

- We would like to thank the Animal Selection and Reproduction Centre at Xenética Fontao SA, where the Galician Blond breeding bulls and semen bank are maintained and where genotyping and relationship testing is carried out.

- Finally, we wish to thank the University of Zaragoza's Research Results Transfer Office (OTRI in Spanish), where the genetic variability assessments are being carried out for the Galician Blond breed.

GLOSSARY

Identification code: The set of letters and numbers used to identify the animal in the breed's Genealogy Book.

Record: The Record from the Genealogy Book in which the animal is entered.

> **Final Register (RD in Spanish):** Bulls from the Birth Register that are 14 months of age or older and with a morphological rating higher than 70 points.

> **Merit Register (RM in Spanish):** Bulls from the Final Register with a morphology rating higher than 80 points and with at least 10 progeny entered in the Final Register.

Ear Tag: An animal's official individual identification number.

AI Code: A code number issued to each bull at the Animal Selection and Reproduction Centre for use with artificial insemination.

Individual evaluation:

> **Birth Weight:** The bull's weight taken at the breeder's operation, during the first 24 hours of life.

> **Weaning Weight:** The bull's weight taken at the breeder's operation, between 6 and 8 months of age and standardised to 210 days.

> **Weight at 12 months:** The bull's weight at one year of life (at the Testing Centre)

> **ADG_{IE}:** Average Daily Gain during the individual evaluation. A ratio showing the difference between the weight at the beginning and end of the testing period (8 and 14 months of age, respectively), also considering the duration of this period (180 days).

> **CI:** Conversion Index for feeds during the individual evaluation. Ratio between the concentrated feed consumed and the weight increase during this phase (8 and 14 months of age).

> **MR:** Morphological rating for the bull at 14 months (according to the breed prototype scale).

Progeny testing: assessment of the stud bulls based upon performance monitoring of their progeny at the various affiliated operations (using multiple environmental effects); in other words, based upon the birth weight and weaning weight of the offspring.

> **Birth Weight:** average weight of the bull's male and female progeny. Total average.

> **Weaning Weight:** Weight of the bull's male and female progeny between 6 and 8 months of age (with reference 210 days). Total average.

> **ADG_{210}:** Average daily gain for the bull's male and female progeny at 210 days of life for the animal. Total average.

> **Genetic Index:** Inter-herd genetic valuation (different ranches with various environmental effects) for the characteristics with the highest economic impact and related to the objective of improving the Galician Blond breed: birth weight and weaning weight. Determines the genetic merit of the breeding animals as transmittable to the offspring, for each of these characteristics.

> **% Prec.:** percentage of precision or reliability for the prediction. Indicates the degree of invariability of the genetic value as new data is incorporated.

> **CI (ICO in Spanish):** A compound selection index produced from the results of the genetic valuation for the birth weight and weaning weight, giving the same importance to both characteristics but with a positive weighting given to the weaning weight and a negative weighting to the birth weight. This index allows us to provide a genetic rating of the animals for the various characteristics recorded.

Calving Ease: The interest in this characteristic comes from its relationship with problematic births, which can lead to significant expenses for the operation and a high negative impact on the viability of the dam and calf. This is a complex characteristic with a heritability that tends to be low.

Calving ease is rated on a scale of 1-4:

1) Solo birth: the cow gives birth alone without any type of assistance from the caretaker.

2) Light assistance: the cow requires the presence of a caretaker to assist with the birth due to an inappropriate presentation, position, or posture of the foetus.

3) Strong traction: dystocia, complicated, or difficult births that require the presence of more than one caretaker and/or ropes or mechanical elements to extract the foetus.

4) Caesarean: surgical intervention is required to extract the foetus.

The improvement seen in recent years in relation to calving ease has been achieved thanks to two lines of action:

- Study and monitoring of the culard characteristic
- Selection for a low birth weight

Proven stud bulls
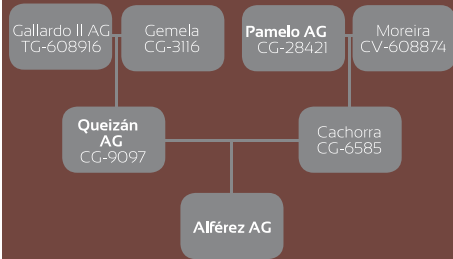
Alférez AG

Date of Birth: **14/02/2007 |** Breeder: **José M. Rodríguez**
Individual ID: **CG-14000 |** AI Code: **622112**
Ear Tag: **ES021107031084**

Genealogy

Gallardo II AG TG-608916	Gemela CG-3116	**Pamelo AG** CG-28421	Moreira CV-608874
	Queizán AG CG-9097	Cachorra CG-6585	
		Alférez AG	

Individual Evaluation

Weights in testing cage

Birth | 48 kg
7 m | 345 kg
12 m | 591 kg
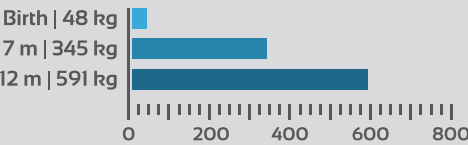
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,494	5,32

Comments

- A bull that provides offspring with good growth characteristics and excellent results in conformation for beef.

- Recommended for industrial cross-breeding.

- Recommended for cows with good calving aptitude.

Proven stud bulls

Progeny testing | Evaluation performed using **659** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	321	46	80	317	1,288
Females	338	42	110	294	1,199
Total	659	44	190	303	1,235

	Birth	7 months
% Prec	98,7	95,3
Genetic Ind.	95,04	109,69

Calving Ease

Solo birth   333 | 49,41%
Light assistance   283 | 41,99%
Strong traction   39 | 5,79%
Caesarean   19 | 2,82%
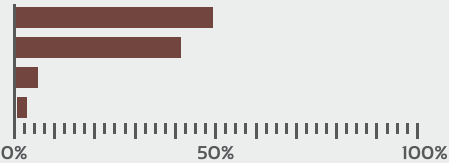
ICO

105
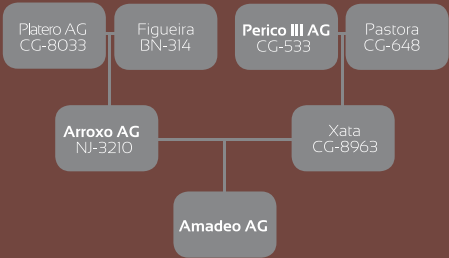
Amadeo AG

Date of Birth: **14/11/2007 |** Breeder: **José Luis Fernández**
Individual ID: **CG-14834 |** AI Code: 622115
Ear Tag: **ESO21107369778**

Genealogy

Platero AG CG-8033	Figueira BN-314
Perico III AG CG-533	Pastora CG-648
Arroxo AG NJ-3210	Xata CG-8963

Amadeo AG

Individual Evaluation

Weights in testing cage

- Birth | 47 kg
- 7 m | 277 kg
- 12 m | 641 kg

(scale: 0, 200, 400, 600, 800)
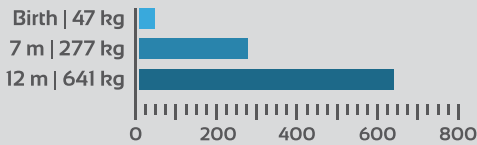
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,287	7,07

Comments

- Provides animals with excellent skeletal development, tall at the withers and long.

- Recommended for medium and large-sized cows, with good calving aptitude.

- Appropriate for industrial cross-breeding.

Progeny testing | Evaluation performed using **160** offspring

	Birth		7 months				Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG			
Males	81	44	30	293	1,184		Birth	7 months
Females	79	40	12	283	1,155	% Prec	86,2	71,1
Total	160	42	42	290	1,180	Genetic Ind.	103,29	96,21

Calving Ease

- Solo birth 82 | 50,62%
- Light assistance 68 | 41,98%
- Strong traction 10 | 6,17%
- Caesarean 2 | 1,23%
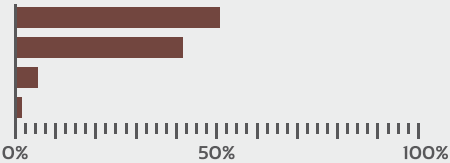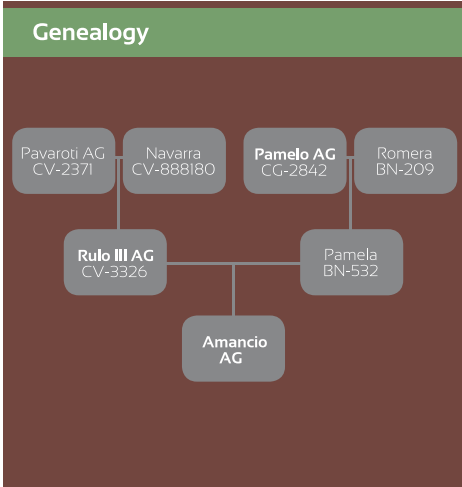
(scale: 0%, 50%, 100%)

ICO

101

Amancio AG

Date of Birth: **23/01/2007** | Breeder: **Amador Álvarez**
Individual ID: **BN-1940** | AI Code: **622111**
Ear Tag: **ES021106991258**

Genealogy

Pavaroti AG CV-2371	Navarra CV-888180	**Pamelo AG** CG-2842	Romera BN-209
	Rulo III AG CV-3326	Pamela BN-532	
		Amancio AG	

Individual Evaluation

Weights in testing cage

- Birth | 40 kg
- 7 m | 422 kg
- 12 m | 625 kg

(Chart axis: 0, 200, 400, 600, 800)
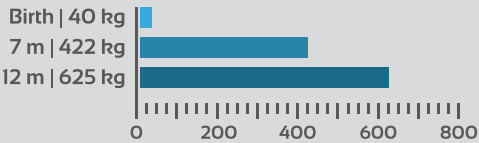
Morphological Rating	ADG$_{IE}$	Conversion Index
82,00	1,615	5,64

Comments

- A bull with offspring that show a good birth weight to weaning weight ratio and highly rated beef.

- Recommended for use with large cows with good calving aptitude. Not appropriate for heifers.

- Appropriate for re-breeding of heifers because of his good skeletal development.

- Also recommended for crossing with zebu cattle.

Proven stud bulls

Progeny testing | Evaluation performed using **583** offspring

	Birth		7 months					Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG				
Males	300	46	115	309	1,251			Birth	7 months
Females	283	42	106	293	1,193		% Prec	98,7	96,1
Total	583	44	221	301	1,223		Genetic Ind.	99,21	115,64

Calving Ease
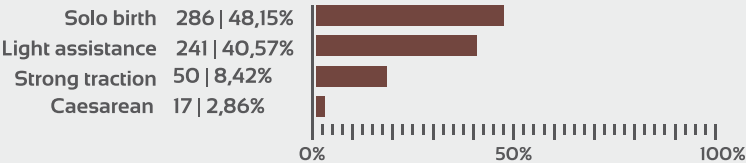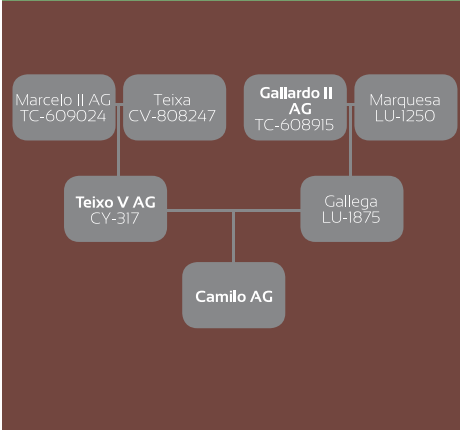
- Solo birth 286 | 48,15%
- Light assistance 241 | 40,57%
- Strong traction 50 | 8,42%
- Caesarean 17 | 2,86%

(Chart axis: 0%, 50%, 100%)

ICO

114

Camilo AG

Genealogy

Marcelo II AG TC-609024	Teixa CV-808247
Gallardo II AG TC-608915	Marquesa LU-1250
Teixo V AG CY-317	Gallega LU-1875

Camilo AG

Individual Evaluation

Weights in testing cage

- Birth | 50 kg
- 7 m | 409 kg
- 12 m | 620 kg

(scale: 0, 200, 400, 600, 800)
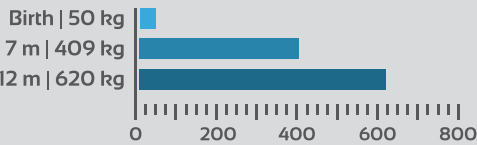
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,489	6,68

Comments

- A bull with good results in terms of calving ease and a good birth weight to weaning weight ratio in his offspring.

- Recommended for obtaining progeny with excellent conformation and muscular development for beef.

- Also recommended for industrial cross-breeding.

Progeny testing | Evaluation performed using **653** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	329	44	90	302	1,230
Females	324	41	92	292	1,196
Total	653	43	182	297	1,213

	Birth	7 months
% Prec	97,9	93,2
Genetic Ind.	103,68	117,45

Calving Ease

- Solo birth   379 | 56,82%
- Light assistance   256 | 38,38%
- Strong traction   24 | 3,60%
- Caesarean   8 | 1,20%
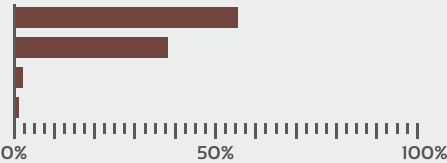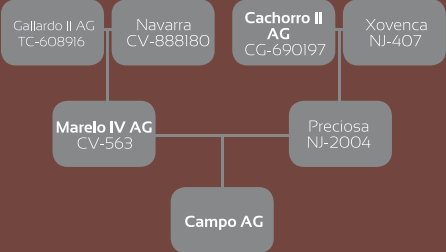
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ICO
119

Proven stud bulls

Campo AG

Genealogy

Gallardo II AG TC-608916	
Navarra CV-888180	
Cachorro II AG CG-690197	
Xovenca NJ-407	
Marelo IV AG CV-563	
Preciosa NJ-2004	
Campo AG	

Individual Evaluation

Weights in testing cage

- Birth | 43 kg
- 7 m | 329 kg
- 12 m | 597 kg

(Scale: 0, 200, 400, 600, 800)
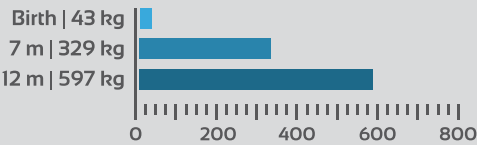
Morphological Rating	ADG$_{IE}$	Conversion Index
83,25	1,536	6,50

Comments

- A bull that provides animals with excellent development at weaning and muscular development for beef.

- Recommended for medium-sized cows.

Progeny testing | Evaluation performed using **109** offspring

	Birth		7 months				Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG			
Males	54	44	23	324	1,332		Birth	7 months
Females	55	43	20	314	1,290	% Prec	90,8	81,0
Total	109	44	43	319	1,313	Genetic Ind.	100,59	124,99

Calving Ease

- Solo birth: 58 | 52,73%
- Light assistance: 40 | 36,36%
- Strong traction: 12 | 10,91%
- Caesarean: 0 | 0,00%
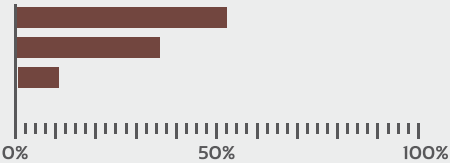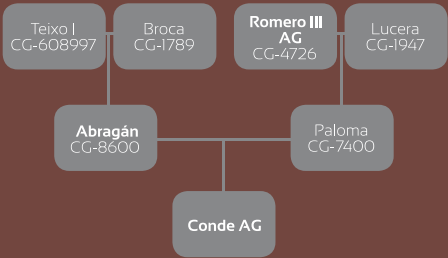
(Scale: 0%, 50%, 100%)

ICO
123

Conde AG

Date of Birth: **16/09/2004** | Breeder: **José Luis Fernández**
Individual ID: **CG-11420** | AI Code: **622100**
Ear Tag: **ES041105815102**

Genealogy

| Teixo I CG-608997 | Broca CG-1789 | Romero III AG CG-4726 | Lucera CG-1947 |

- Abragán CG-8600
- Paloma CG-7400
- Conde AG

Individual Evaluation

Weights in testing cage

- Birth | 46 kg
- 7 m | 309 kg
- 12 m | 690 kg

(scale: 0, 200, 400, 600, 800)
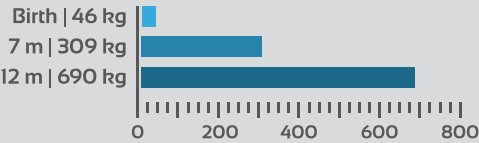
Morphological Rating	ADG$_{IE}$	Conversion Index
83,25	1,921	4,38

Comments

- Data from the reared daughters indicates tall and long animals, with excellent stance and good mammary systems.

- Recommended for use with adult cows, with good development and high calving aptitude.

- Recommended for use in industrial cross-breeding and with zebu cattle.

Progeny testing | Evaluation performed using **1.936** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	897	46	200	297	1,198
Females	1.039	42	250	280	1,133
Total	1.936	44	450	288	1,161

	Birth	7 months
% Prec	99,5	97,8
Genetic Ind.	98,05	104,48

Calving Ease

- Solo birth   1.104 | 55,81%
- Light assistance   754 | 38,12%
- Strong traction   93 | 4,70%
- Caesarean   27 | 1,37%
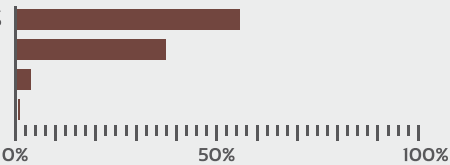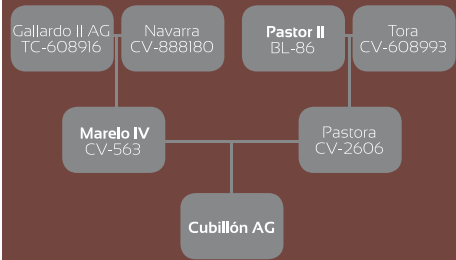
(scale: 0%, 50%, 100%)

ICO
103

Proven stud bulls

13

Cubillón AG

Date of Birth: **26/06/2006** | Breeder: **Camilo Boudón**
Individual ID: **CV-5420** | AI Code: **622108**
Ear Tag: **ES021106750306**

Genealogy

Gallardo II AG TC-608916	Navarra CV-888180	**Pastor II** BL-86	Tora CV-608993

Marelo IV CV-563		Pastora CV-2606

Cubillón AG

Individual Evaluation

Weights in testing cage

Birth | 40 kg
7 m | 365 kg
12 m | 627 kg

| 0 | 200 | 400 | 600 | 800 |
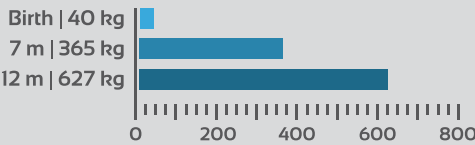
Morphological Rating	ADG$_{IE}$	Conversion Index
84,25	1,344	6,54

Comments

- A bull generating good calving ease in medium-sized cows.

- Not appropriate for heifers.

- An ideal bull for obtaining calves with good development at weaning and high conformation for beef.

- Also selected for use in industrial cross-breeding.

Progeny testing | Evaluation performed using **1.373** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	659	43	174	306	1,254
Females	714	41	232	300	1,232
Total	1.373	42	406	303	1,241

	Birth	7 months
% Prec	99,3	97,0
Genetic Ind.	108,28	114,87

Calving Ease

Solo birth   816 | 58,04%
Light assistance   531 | 37,77%
Strong traction   40 | 2,84%
Caesarean   19 | 1,35%
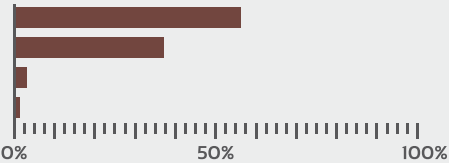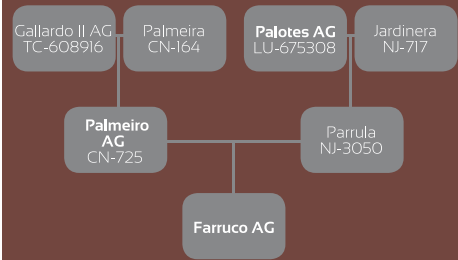
| 0% | 50% | 100% |

ICO

121

Farruco AG

Genealogy

- Gallardo II AG TC-608916
- Palmeira CN-164
- Palotes AG LU-675308
- Jardinera NJ-717
- Palmeiro AG CN-725
- Parrula NJ-3050
- Farruco AG

Individual Evaluation

Weights in testing cage

- Birth | 38 kg
- 7 m | 394 kg
- 12 m | 656 kg

(scale: 0, 200, 400, 600, 800)
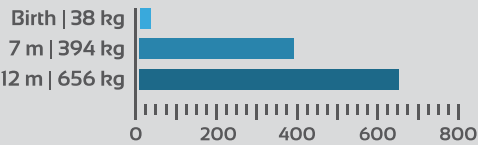
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,308	5,91

Comments

- A bull recommended for re-breeding of heifers. His offspring are characterised by excellent length and stance. Produces heifers with a good mammary system.

- A bull with good results in relation to calving ease.

- Recommended for heifers and small-sized cows.

Progeny testing | Evaluation performed using **3.572** offspring

	Birth		7 months				Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG			
Males	1.760	41	264	315	1,306		Birth	7 months
Females	1.812	39	259	298	1,231	% Prec	99,6	97,6
Total	3.572	40	523	307	1,269	Genetic Ind.	118,55	123,93

Calving Ease
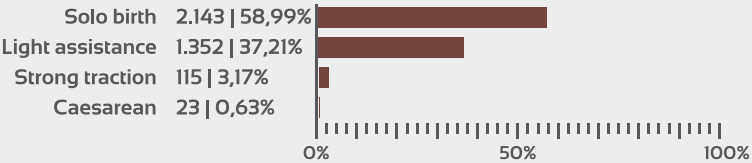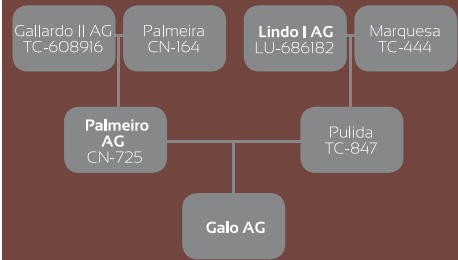
- Solo birth 2.143 | 58,99%
- Light assistance 1.352 | 37,21%
- Strong traction 115 | 3,17%
- Caesarean 23 | 0,63%

(scale: 0% – 50% – 100%)

ICO

137

RD

Galo AG

Date of Birth: **03/09/2008** | Breeder: **Manuel Iglesias**
Individual ID: **TC-4399** | AI Code: **622118**
Ear Tag: **ES011107761013**

Genealogy

- Gallardo II AG TC-608916
- Palmeira CN-164
- **Lindo I AG** LU-686182
- Marquesa TC-444
- **Palmeiro AG** CN-725
- Pulida TC-847
- **Galo AG**

Individual Evaluation

Weights in testing cage

- Birth | 41 kg
- 7 m | 358 kg
- 12 m | 615 kg

(0, 200, 400, 600, 800)
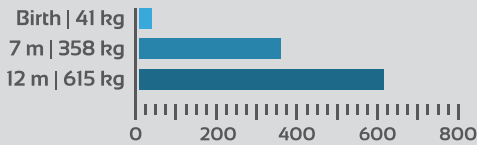
Morphological Rating	ADG_{IE}	Conversion Index
83,00	1,522	5,08

Comments

- A bull with excellent beef rating, ideal for production of calves with high beef yields.

- Recommended for adult cows of large size and with good calving aptitude.

- Not appropriate for heifers.

- Recommended for crossing with zebu cattle.

Proven stud bulls

Progeny testing | Evaluation performed using **727** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	362	44	122	308	1,258
Females	365	41	127	297	1,218
Total	727	42	249	302	1,238

	Birth	7 months
% Prec	98,7	95,9
Genetic Ind.	105,40	116,45

Calving Ease

- Solo birth   410 | 55,03%
- Light assistance   284 | 38,12%
- Strong traction   43 | 5,77%
- Caesarean   8 | 1,07%
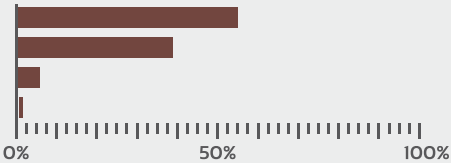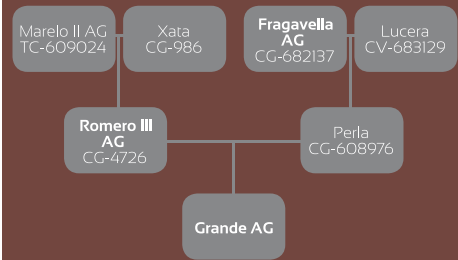
(0% ... 50% ... 100%)

ICO
120

Grande AG

RM

Date of Birth: **12/10/2000** | Breeder: **José M. Rodríguez**
Individual ID: **CG-7422** | AI Code: **622079**
Ear Tag: **ES031103499738**

Genealogy

- Marelo II AG TC-609024
- Xata CG-986
- Fragavella AG CG-682137
- Lucera CV-683129
- Romero III AG CG-4726
- Perla CG-608976
- Grande AG

Individual Evaluation

Weights in testing cage

- Birth | 65 kg
- 7 m | 373 kg
- 12 m | 636 kg
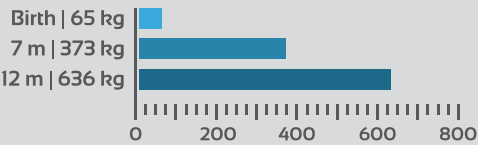
Morphological Rating	ADG$_{IE}$	Conversion Index
86,75	1,801	4,83

Comments

-Recommended for use with large cows with good calving aptitude. Not appropriate for heifers.

- Indicated for re-breeding of heifers.

- Recommended for industrial cross-breeding.

Progeny testing | Evaluation performed using 303 offspring

	Birth		7 months				Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG			
Males	102	49	49	303	1,211		Birth	7 months
Females	201	45	89	273	1,085	% Prec	98,1	96,1
Total	303	47	138	284	1,130	Genetic Ind.	84,37	107,96

Calving Ease

- Solo birth   232 | 77,08%
- Light assistance   46 | 15,28%
- Strong traction   11 | 3,65%
- Caesarean   12 | 3,99%

ICO

95

Proven stud bulls

17
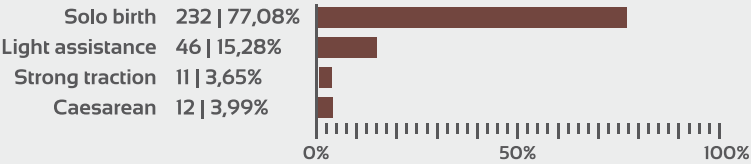
Manteigo AG

Date of Birth: **01/12/2004** | Breeder: **Vicente González**
Individual ID: **CG-11576** | AI Code: **622102**
Ear Tag: **ES071105994109**

Genealogy
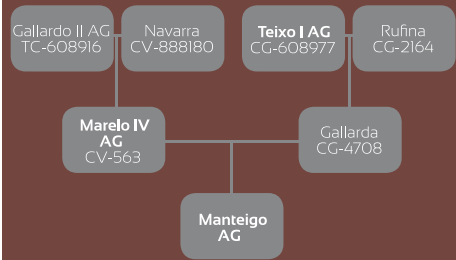
- Gallardo II AG TC-608916
- Navarra CV-888180
- Teixo I AG CG-608977
- Rufina CG-2164
- Marelo IV AG CV-563
- Gallarda CG-4708
- Manteigo AG

Individual Evaluation

Weights in testing cage

- Birth | 49 kg
- 7 m | 388 kg
- 12 m | 718 kg

(scale: 0, 200, 400, 600, 800)
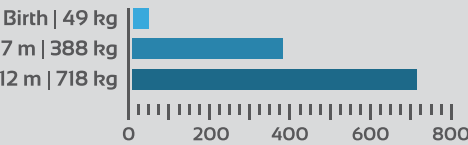
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,658	5,47

Comments

- A bull indicated for re-breeding heifers. His offspring are notable for their excellent size and length. His daughters are characterised by their good mammary systems.

- Good birth weight to weaning weight ratio.

- Recommended for medium-sized cows.

- Recommended for industrial cross-breeding.

Progeny testing | Evaluation performed using **2.668** offspring

	Birth		7 months					Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG				
Males	1.251	45	232	302	1,223			Birth	7 months
Females	1.417	42	244	278	1,122		% Prec	99,6	97,9
Total	2.668	43	476	289	1,172		Genetic Ind.	97,54	107,08

Calving Ease

- Solo birth   1.485 | 54,86%
- Light assistance   1.056 | 39,01%
- Strong traction   130 | 4,08%
- Caesarean   36 | 1,33%
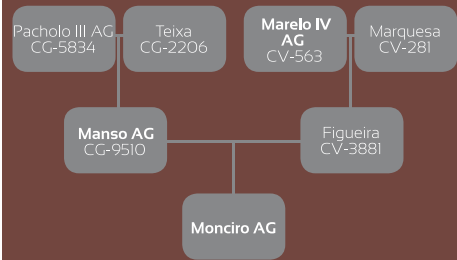
(scale: 0%, 50%, 100%)

ICO

105

Proven stud bulls

RM — Monciro AG

Genealogy

- Pacholo III AG CG-5834
- Teixa CG-2206
- **Marelo IV AG** CV-563
- Marquesa CV-281
- **Manso AG** CG-9510
- Figueira CV-3881
- Monciro AG

Individual Evaluation

Weights in testing cage

Birth	37 kg
7 m	325 kg
12 m	575 kg

(scale: 0 – 200 – 400 – 600 – 800)
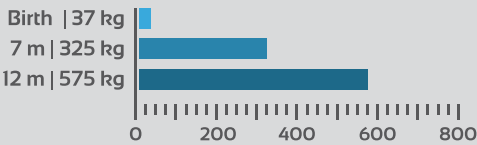
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,557	4,79

Comments

- Provides animals with good development at weaning and muscular development for beef.

- Indicated for re-breeding of heifers. A bull with excellent length, a characteristic that he transmits to his offspring.

- Recommended for medium-sized cows. A bull generating good calving ease, but not indicated for heifers.

- Also indicated for use in industrial cross-breeding.

Progeny testing | Evaluation performed using 126 offspring

	Birth		7 months					Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG				
Males	64	44	33	315	1,289		Birth		7 months
Females	62	41	26	263	1,059	% Prec	95,5		91,8
Total	126	43	59	292	1,188	Genetic Ind.	101,70		116,82

Calving Ease

Solo birth	66 | 51,97%
Light assistance	52 | 40,94%
Strong traction	8 | 6,30%
Caesarean	1 | 0,79%
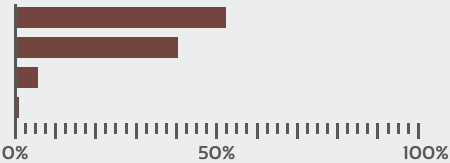
(scale: 0% – 50% – 100%)

ICO
117

Proven stud bulls

Muíño AG

Genealogy

Rufo AG S-608633	Palomita CG-86218	**Teixo I AG** CG-608977	Primavera CV-609047

Cachorro II AG CG-690197

Pastora CG-2378

Muíño AG

Individual Evaluation

Weights in testing cage

Birth | 49 kg
7 m | 367 kg
12 m | 684 kg

(chart axis: 0, 200, 400, 600, 800)
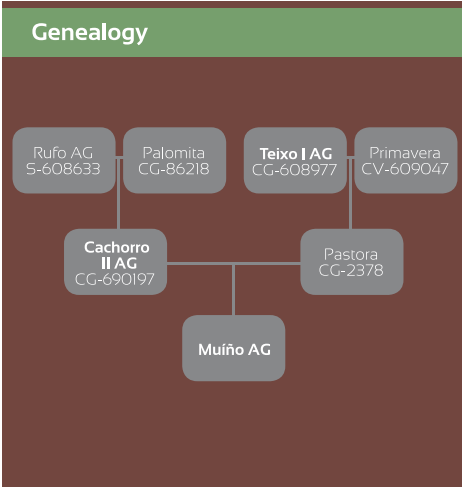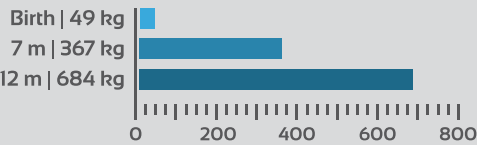
Morphological Rating	ADG$_{IE}$	Conversion Index
82,00	1,606	4,71

Comments

- A bull that provides long, tall animals.

- Indicated for re-breeding of heifers.

- Recommended for large-sized cows with good calving aptitude. Not appropriate for heifers.

- Also suitable for cross-breeding with zebu cattle.

Proven stud bulls

Progeny testing | Evaluation performed using **1.121** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	535	46	199	330	1,349
Females	586	42	234	281	1,139
Total	1.121	44	433	303	1,235

	Birth	7 months
% Prec	99,3	97,6
Genetic Ind.	95,69	109,61

Calving Ease

Solo birth	584 | 51,27%
Light assistance	459 | 40,30%
Strong traction	72 | 6,32 %
Caesarean	24 | 2,11%

(chart axis: 0%, 50%, 100%)
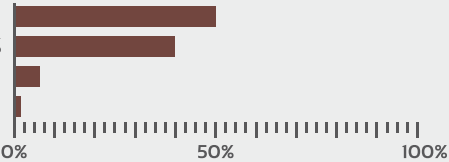
ICO

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Nicolás AG

Date of Birth: **25/10/2007** | Breeder: **Manuel Alonso**
Individual ID: **CN-2257** | AI Code: **622116**
Ear Tag: **ES031107377700**

Genealogy
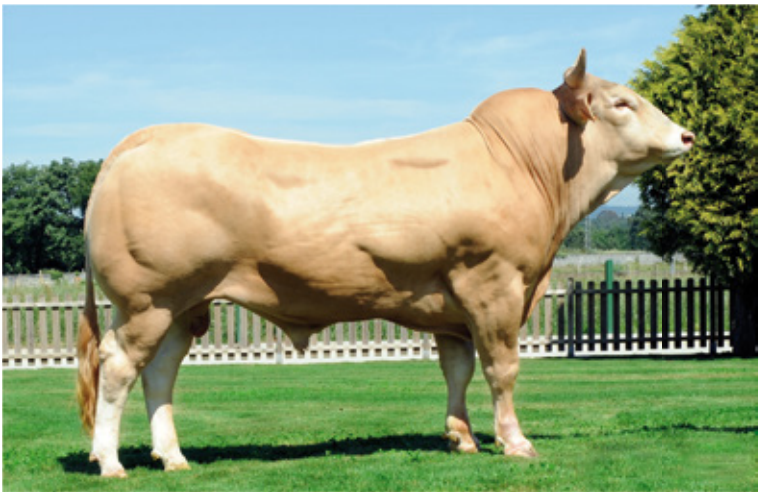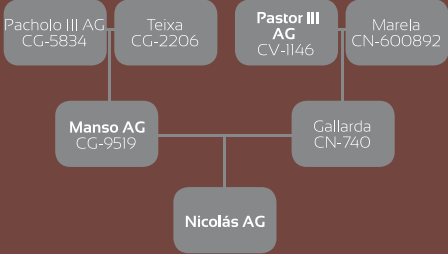
- Pacholo III AG CG-5834
- Teixa CG-2206
- Pastor III AG CV-1146
- Marela CN-600892
- Manso AG CG-9519
- Gallarda CN-740
- Nicolás AG

Individual Evaluation

Weights in testing cage

Birth	48 kg
7 m	350 kg
12 m	667 kg

(scale: 0 – 200 – 400 – 600 – 800)
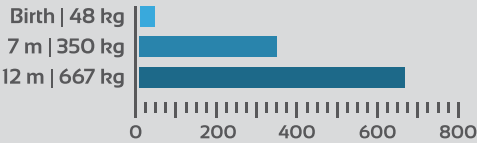
Morphological Rating	ADG_{IE}	Conversion Index
80,00	1,805	5,59

Comments

- His offspring have an excellent birth weight to weaning weight ratio and good conformation for beef.

- Recommended for use with large cows, with good calving aptitude, in order to obtain calves for slaughter.

- Also recommended for use in crossing with zebu cattle.

Progeny testing | Evaluation performed using **690** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	344	45	111	323	1,325
Females	346	42	104	317	1,308
Total	690	44	215	320	1,317

	Birth	7 months
% Prec	98,6	95,1
Genetic Ind.	96,72	119,76

Calving Ease

Solo birth	354	50,36%
Light assistance	284	40,40%
Strong traction	53	7,54%
Caesarean	12	1,71%

(scale: 0% – 50% – 100%)

ICO
115

Proven stud bulls
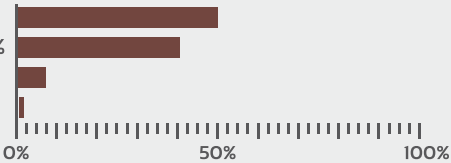
Pastor IV AG

Date of Birth: **22/05/2010 |** Breeder: **Jesús Varela**
Individual ID: **PY-2748 |** AI Code: **BRG-123**
Ear Tag: **ES051109242826**

Genealogy
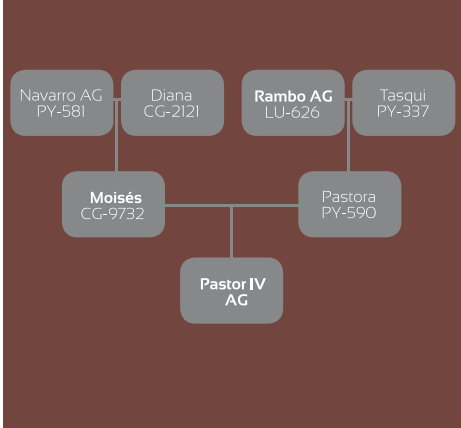
Navarro AG PY-581	Diana CG-2121	**Rambo AG** LU-626	Tasqui PY-337

Moisés CG-9732 — Pastora PY-590

Pastor IV AG

Individual Evaluation

Weights in testing cage

Birth | 47 kg
7 m | 302 kg
12 m | 624 kg

0 200 400 600 800
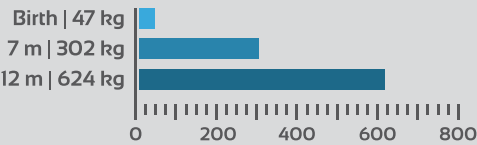
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,516	6,00

Comments

- His progeny show good development at weaning and conformation for beef.

- Provides animals with excellent length and size.

- Indicated for breeding females with good calving aptitude. Not appropriate for heifers.

Proven stud bulls

Progeny testing | Evaluation performed using **249** offspring

	Birth		7 months				Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG			
Males	110	45	29	305	1,238		Birth	7 months
Females	139	41	45	310	1,280	% Prec	94,9	87,2
Total	249	43	74	308	1,263	Genetic Ind.	101,02	106,03

Calving Ease

Solo birth	133	52,57%
Light assistance	103	40,71%
Strong traction	15	5,93%
Caesarean	2	0,79%
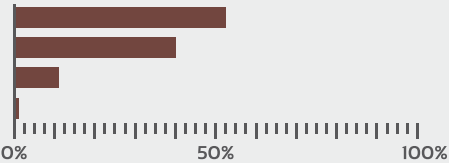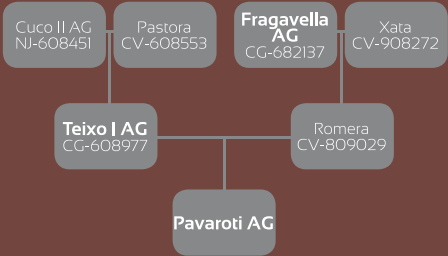
0% 50% 100%

ICO

107

Pavaroti AG

Genealogy

Cuco II AG NJ-608451	Pastora CV-608553	**Fragavella AG** CG-682137	Xata CV-908272

Teixo I AG CG-608977

Romera CV-809029

Pavaroti AG

Individual Evaluation

Weights in testing cage

- Birth | 34 kg
- 7 m | 350 kg
- 12 m | 557 kg

(scale: 0, 200, 400, 600, 800)
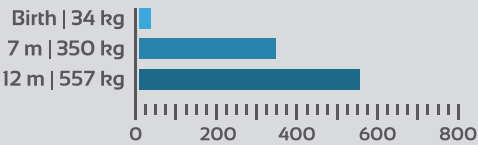
Morphological Rating	ADG_{IE}	Conversion Index
80,00	1,176	5,74

Comments

- A bull that provides animals with low birth weight and high calving ease indexes.

- Recommended for use with heifers and small-sized animals.

Progeny testing | Evaluation performed using **8.632** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	3.779	40	1.086	274	1,113
Females	4.853	38	1.687	250	1,007
Total	8.632	39	2.773	259	1,048

	Birth	7 months
% Prec	99,9	98,7
Genetic Ind.	123,23	80,23

Calving Ease

- Solo birth: 6.137 | 70,09%
- Light assistance: 2.118 | 24,19%
- Strong traction: 255 | 2,91%
- Caesarean: 246 | 2,81%

(scale: 0%, 50%, 100%)
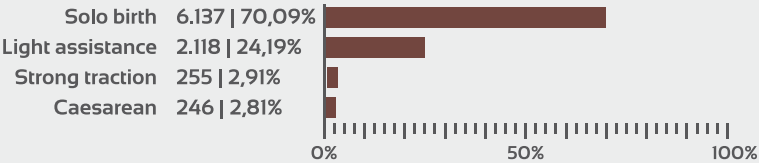
ICO
104

Proven stud bulls

Pelegrín II AG

Date of Birth: **26/05/2009** | Breeder: **Ana Belén Díaz**
Individual ID: **CV-6821** | AI Code: **622120**
Ear Tag: **ES081108830356**

Genealogy
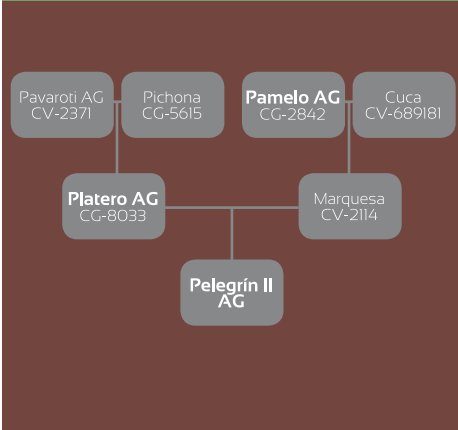
Pavaroti AG CV-2371	Pichona CG-5615	**Pamelo AG** CG-2842	Cuca CV-689181

Platero AG CG-8033 — Marquesa CV-2114

Pelegrín II AG

Individual Evaluation

Weights in testing cage

Birth | 45 kg
7 m | 334 kg
12 m | 512 kg

(bar chart axis: 0, 200, 400, 600, 800)
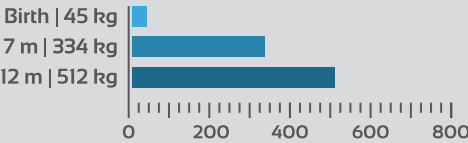
Morphological Rating	ADG$_{IE}$	Conversion Index
80,00	1,201	7,00

Comments

- Recommended for use with heifers.

- A bull appropriate for producing calves of low birth weight and with good calving ease.

- Provides animals with good development at weaning.

Progeny testing | Evaluation performed using **393** offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	191	41	60	298	1,221
Females	202	38	61	285	1,177
Total	393	39	121	291	1,199

	Birth	7 months
% Prec	96,6	87,1
Genetic Ind.	115,58	90,76

Calving Ease

Solo birth   212 | 53,40%
Light assistance   163 | 41,06%
Strong traction   11 | 2,77%
Caesarean   11 | 2,77%
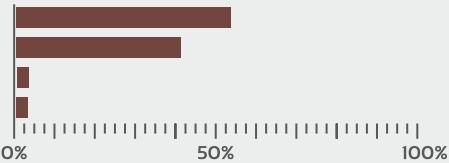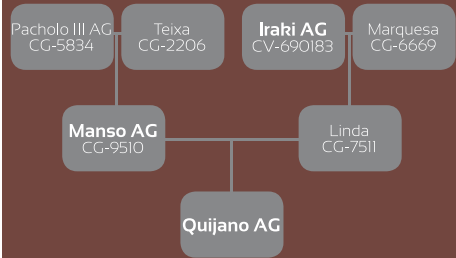
(bar chart axis: 0%, 50%, 100%)

ICO

107

Proven stud bulls

Quijano AG

Date of Birth: **20/02/2006 |** Breeder: **Juana Besteiro**
Individual ID: **CG-12939 |** AI Code: **622107**
Ear Tag: **ES041106546880**

Genealogy

Pacholo III AG CG-5834	Teixa CG-2206
Iraki AG CV-690183	Marquesa CG-6669

Manso AG CG-9510

Linda CG-7511

Quijano AG

Individual Evaluation

Weights in testing cage

Birth | 50 kg
7 m | 419 kg
12 m | 650 kg

(bar chart: 0, 200, 400, 600, 800)
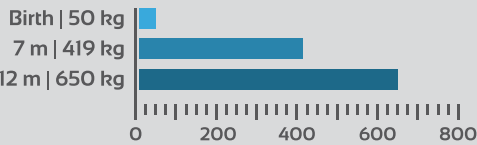
Morphological Rating	ADG$_{IE}$	Conversion Index
82,00	1,312	5,76

Comments

- This is a good choice for obtaining breeding with good maternal qualities.

- His progeny are very well formed animals with a good mammary system in his daughters.

- Indicated for large sized cows and with good calving ease. Not appropriate for heifers.

- Also recommended for industrial cross-breeding.

Progeny testing | Evaluation performed using 1.077 offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Males	497	44	156	317	1,301
Females	580	40	212	288	1,183
Total	1.077	42	368	301	1,233

	Birth	7 months
% Prec	99,1	96,6
Genetic Ind.	106,43	118,13

Calving Ease

Solo birth	622	56,44%
Light assistance	414	37,57%
Strong traction	51	4,63%
Caesarean	15	1,36%
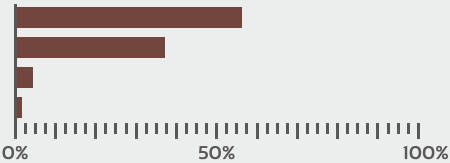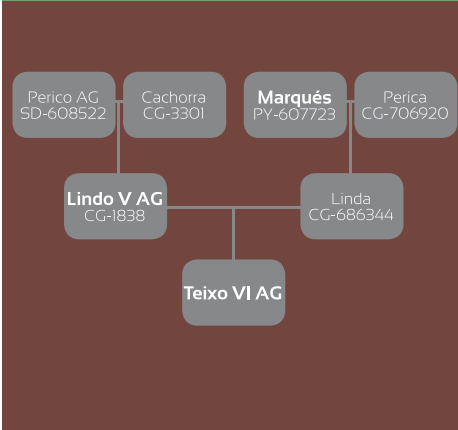
(bar chart: 0%, 50%, 100%)

ICO

122

Proven stud bulls

25

Teixo VI AG

Date of Birth: **27/04/1996 |** Breeder: **Silvina Fernández**
Individual ID: **CG-3761 |** AI Code: **622062**
Ear Tag: **ES071104763197**

Genealogy

Perico AG SD-608522	Cachorra CG-3301
Lindo V AG CG-1838	

Marqués PY-607723	Perica CG-706920
Linda CG-686344	

Teixo VI AG

Individual Evaluation

Weights in testing cage

Birth | 60 kg
7 m | 298 kg
12 m | 533 kg

0   200   400   600   800
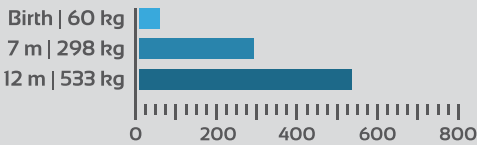
Morphological Rating	ADG$_{IE}$	Conversion Index
81,25	1,394	5,98

Comments

- This is a bull that provides large animals with good skeletal development, with good mammary systems in his daughters.

- Indicated for large sized cows and with good calving ease. Not appropriate for heifers.

- Recommended for industrial cross-breeding.

Progeny testing | Evaluation performed using **914** offspring

	Birth		7 months				Birth	7 months
	No.	Weight (kg)	No.	Weight (kg)	ADG			
Mâles	326	46	143	287	1,146		Birth	7 months
Femelles	588	43	294	266	1,063	% Prec	99,3	97,9
Total	914	44	437	273	1,090	Genetic Ind.	95,00	95,91

Calving Ease

Solo birth	706	77,58%
Light assistance	148	16,26%
Strong traction	34	3,74%
Caesarean	22	2,42%
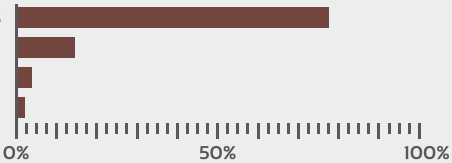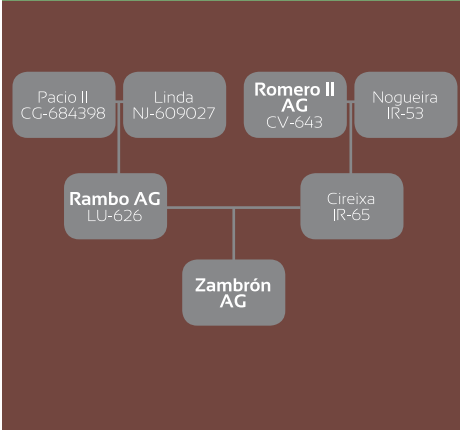
0%   50%   100%

ICO

94

Zambrón AG

Date of Birth: **01/04/2000** | Breeder: **J. Antonio Pereira**
Individual ID: **IR-158** | AI Code: **622075**
Ear Tag: **ESO31103100832**

Genealogy

- Pacio II CG-684398
- Linda NJ-609027
- Romero II AG CV-643
- Nogueira IR-53
- Rambo AG LU-626
- Cireixa IR-65
- Zambrón AG

Individual Evaluation

Weights in testing cage

- Birth | 47 kg
- 7 m | 380 kg
- 12 m | 630 kg

(scale: 0, 200, 400, 600, 800)
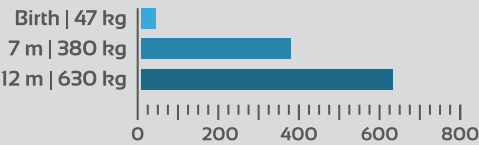
Morphological Rating	ADG$_{IE}$	Conversion Index
78,50	1,483	5,88

Comments

- This is a bull with high semen fertility. Good quality.

- The data coming from his daughters demonstrates that they possess an excellent mammary system.

- Recommended for animals with good calving aptitude.

Progeny testing | Evaluation performed using 1.520 offspring

	Birth		7 months		
	No.	Weight (kg)	No.	Weight (kg)	ADG
Mâles	612	44	252	299	1,213
Femelles	908	42	442	276	1,112
Total	1.520	43	694	284	1,148

	Birth	7 months
% Prec	99,5	98,3
Genetic Ind.	104,84	107,16

Calving Ease

- Solo birth   1.184 | 77,89%
- Light assistance   261 | 17,17%
- Strong traction   48 | 3,16%
- Caesarean   27 | 1,78%

(scale: 0%, 50%, 100%)

ICO

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Proven stud bulls

BREED IMPROVEMENT PROGRAMME

(Resolution of 22 November, published in Spain's Official State Gazette (BOE) on 6 December 2011)

OBJECTIVE: to improve production efficiency for the breed

Phases

1) Selection of candidate calves for the testing centre:

• Birth weight: This is determined by the rancher, using a scale or as an estimate, in the first 24 hours after birth.

• Weaning weight: This is determined by the field monitors, using a scale or a zoometric tape, at an age between 6 and 8 months (reference: 210 days).

• Calving ease: this is rated by the rancher on a scale of 1 (solo birth) to 4 (Caesarean required).

• Overall productivity of the breeding female: age at first birth, number of births and calves, interval between births, breeding ability, etc.

2) Individual evaluation at the Testing Centre: (Adai, O Corgo, Lugo):

• Average Daily Gain, post-weaning : difference between the weight at the beginning and end of the testing period (8 and 14 months of age) and considering the duration of this period (6 months).

• Conversion index: weight increase for the animal in relation to the concentrated feed consumed.

• Zoometric measurements: taken at 14 months of age:

      - eight at withers (greater than 128 cm)
      - scapula-ischia length
      - depth of chest
      - width of chest
      - length of hindquarters
      - width of hindquarters
      - thoracic perimeter (large and deep for selected animals, therefore with a higher thoracic capacity).

• Morphological rating at 14 months of age.

3) Progeny testing: monitoring of offspring at the ranching operation and abattoir:

    3.1. Monitoring of progeny at the ranch: the offspring from AI and natural service bulls are subjected to performance monitoring at the ranch (phase 1)

    3.2. Monitoring of progeny at the abattoir: the offspring from AI and natural service bulls are subjected to these yield controls at the abattoir:

        a) Age and weight at slaughter
        b) Weight of the cold carcass (determination of yield on the carcass)
        c) Conformation of the carcass, following the SEUROP system
        d) The fat distribution status of the carcass, on a scale of 1-5

Candidate calves for the testing centre

a) Offspring of a Mother of Future Stud (MFS in Spanish) and Father of Future Stud (PFS in Spanish)
b) Pre-weaning ADGie210 (at 210 days > the breed average)
c) Morphological rating at weaning of Good or Very Good, based on the animal's muscular and skeletal development
d) Does not show any appreciable defects in morphology or stance and is within the standard for the breed
e) Complies with the health regulations in force
f) Has its relationships confirmed

Classification of breeders:

a) Breeding cow:

- Females from Auxiliary Register (RA in Spanish) or Final Register (RD in Spanish)
- Morphological rating ≥ 65 points

b) Mother of Future Stud (MFS in Spanish):

- Females from RD or Merit Register (RM in Spanish)
- Daughter of an RD or RM father and mother
- CI ≥ 100
- Morphological rating ≥ 70 points (Good)
- ≥ 3 monitored births and ≥ 3 calves with birth weight
- Interval between births < 500 days
- The following reproductive characteristics must also be taken into account: Precocity (age at first birth), interval between births, calving ease, capacity of offspring (average daily gain at 210 days)

c) Natural Service Bull:

- Males from RD
- Morphological rating ≥ 70 points

d) Father of Future Stud (PFS in Spanish):

- Males from RD or RM
- Offspring of an RD or RM father and mother
- CI ≥ 100
- Morphological rating ≥ 80 points (Very Good)
- ≥ 20 progeny with birth weight and weaning weight
- The molecular information provided to us must also be taken into account, showing genes related to productive characteristics or with the quality of the carcass and/or the beef, or related to undesirable characteristics (the culard characteristic) or diseases of genetic origin.

e) Bull for Artificial Insemination:

- Male offspring of MFS and PFS
- RD or RM
- Morphological rating ≥ 80 points
- Positive individual evaluation at the Testing Centre

Average birth weight (kg)

Name	Value
Alférez	43,95
Amadeo	42,02
Amancio	44,06
Camilo	42,51
Campo	43,50
Conde	43,85
Cubillón	41,96
Farruco	39,99
Galo	42,49
Grande	46,35
Manteigo	43,41
Monciro	42,52
Muíño	43,91
Nicolás	43,50
Pastor IV	42,77
Pavaroti	38,88
Pelegrín II	39,46
Quijano	41,85
Teixo VI	44,07
Zambrón	42,81
Sequeiro	42,95

Average weaning weight (kg)

Name	Value
Alférez	303,32
Amadeo	289,79
Amancio	300,95
Camilo	297,20
Campo	319,19
Conde	287,69
Cubillón	302,53
Farruco	306,50
Galo	302,41
Grande	283,65
Manteigo	289,49
Monciro	292,05
Muíño	303,31
Nicolás	320,04
Pastor IV	307,92
Pavaroti	259,00
Pelegrín II	291,24
Quijano	300,68
Teixo VI	272,88
Zambrón	283,99
Sequeiro	308,86

Name	Value
Alférez	341
Amadeo	83
Amancio	285
Camilo	343
Campo	57
Conde	1055
Cubillón	725
Farruco	1839
Galo	375
Grande	204
Manteigo	1432
Monciro	63
Muíño	589
Nicolás	354
Pastor IV	142
Pelegrín II	209
Quijano	589
Sequeiro	20
Teixo VI	595
Zambrón	918
Pavaroti	4948

Calving ease for heifers

Farruco AG

Solo birth	314	55,28 %
Light assistance	208	36,62 %
Strong traction	32	5,64 %
Caesarean	14	2,46 %
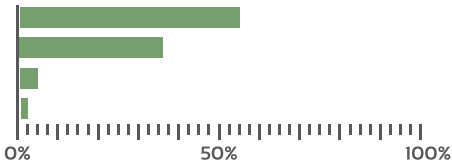
Pavaroti AG

Solo birth	1.839	53,60 %
Light assistance	1.309	38,15 %
Strong traction	169	4,93 %
Caesarean	114	3,32 %
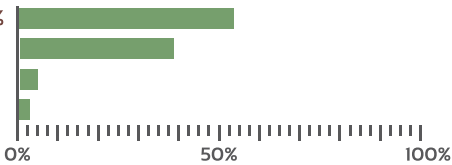
Pelegrín II

Solo birth	58	48,74 %
Light assistance	52	43,70 %
Strong traction	6	5,04 %
Caesarean	3	2,52 %

Founding Register-Artificial Inseminations bulls

MARQUES (RF) LU768975

NAVARRO LU673232 · TEIXO II PS600737 · MARQUES LU673127 · PINCEL FF671200 · CACHORRO II M CY674157 · CAMPERO GI600774 · MARQUES CV607779

NAVARRO I GU608724 · PASTOR CG678289 · RUBIO II LU679162 · GALLARDO CY607871 · LINDO VI OY607912 · PASTOR CG681169 · PIRULO FF671357 · TEIXO VII BV600802 · RUFO S 600813

LINDO S 608432

RUFO AG S608633

CUCO II NI608451

LINDO 4 CG690171

ROMERO I LU 570

RUFO CO CG689112

TEIXO 3 LU 339

TEIXO I CG608977

ABRAGAN CG8600 · ROXO LN 568 · XATO CV 1410 · PACHOLO III CG 5834 · PAVAROTI CV 2371 · TOURO CV 859 · TEIXO IV CG 1667 · GAZPACHO CG 1305

CONDE CG11420 · BUENO LU2869 · MANSO CG 9510 · RULO III CV 3326 · POKEMON CV 4428

AGUILA CV3886 · QUIJANO CG12939 · AMANCIO BN 1940 · CALDEIRO CV 8269

SEQUEIRO FS 5027 · NICOLAS CN 2257 · TUCHO CG 11610

MONCIRO CV 5641 · PIÑEIRO BL 2272

PLATERO CG 8033

CERVANTES CV 4779

ARROXO NI 3210

MIÑO CG 13632 · GRAZAN D 6004

AMADEO CG 14834

PELEGRIN II CV 6821

JUANITO CG 2182s

RUFO AG S 608633

ROMERO II CV 643 · RUFO III CG 5962 · GARRIDO CG 1325 · CACHORRO II CG 690197 · PASTOR III CV 1146 · PERICO III CG 553 · MARUJON CG 2978

RONALDO BL 343 · MUIÑO CG 12215 · CACHORRO I CG 6480 · VIERI BL 821 · TREVINCO RS 245 · TOURO II CV 2728

CARBALLO CG 11163 · CUBELO PY 1214

Tree 1:

- RUFO III (RF) LU706957
  - PERICO I LU673105
    - PALOTES LU675308
      - MACHOTE CG683181
        - TEIXO 2 TC609026
        - GALLEGO FI600909
      - LINDO II GU608770
        - QUEIZAN CG 9097
          - ALFEREZ CG 1400
            - GALANO LN 15190
      - GALLARDO II TC608916
        - MARELO IV CV 563
          - GRACIOSO CG 6611
          - MANTEIGO CG 11576
            - SANTIAGO CG17967
            - CASON MI 287
          - AMARO CG 10961
          - LORO CG 8244
          - CUBILLON CV 5420
          - TOXO CG 9553
          - CAMPO NI 7468
        - PERICO II CG 1333
          - PATIN AG CV 1609
        - PALMEIRO CN 725
          - GALO TC 4399
          - FARRUCO NI 6433
            - XEITOSO LN 15646
      - BROCO CV608266
      - GALLARDO II TC608821
        - PELEGRIN CG1448
          - BREZO CG9362
        - CAMPUZANO CG11703
  - LINDO II CO LU673305
    - RUBIO II CG680191
    - LINDO IV CG68157
    - CHULO CG682135
    - TEIXO VIII CO CG682149
    - MACHOTE CG68137
    - LINDO IV CG677107

Tree 2:

- XEITOSO (RF) FF706786
  - XEITOSO FF671121
  - LUCERO CG 675282
    - LINDO CG680112
      - PERICO I AG SD608522
        - PASTOR II CV 530
        - PERFECTO CG1272
        - FLORO CV 423
        - XOVENCO NI608910
        - MARQUES 7 NI 251
        - PALOTES II CV 530
        - LINDO V CG838
          - TEIXO VI CG 3761
        - PAMELO CG2842
          - MIRANDES CV 3337
          - PULIIDO CG6494

Stud bulls with individual growth evaluation

Caldeiro AG

Date of Birth: **22/03/2012** | Breeder: **César González**
Individual ID: **CV-8269**
Ear Tag: **ESO21109391858**

Genealogy

- Teixo IV AG CG-61667
- Pastora CV-3150
- Cervantes AG CV-4779
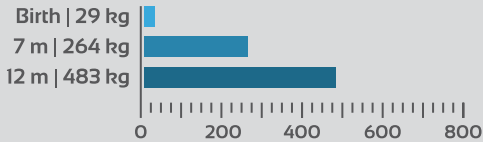- Corza CV-1571
- Pokemon AG CV-428
- Maja CV-6027
- Caldeiro AG

Individual Evaluation

Weights in testing cage

- Birth | 29 kg
- 7 m | 264 kg
- 12 m | 483 kg

(scale: 0, 200, 400, 600, 800)

Morphological Rating	ADG$_{IE}$	ICO
83	1,890	99

Sequeiro AG

Date of Birth: **22/11/2010** | Breeder: **Antonio Prieto**
Individual ID: **FS-5027**
Ear Tag: **ESO71108473203**

Genealogy
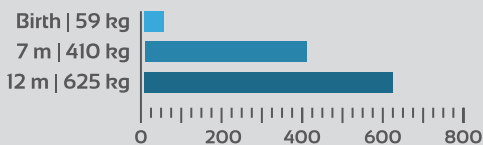
- Xato AG CV-1410
- Reme CV-2880
- Gallardo II AG TC-608916
- Pitusa FS-673
- Aguila AG CV-3886
- Pastora FS-1464
- Sequeiro AG

Individual Evaluation

Weights in testing cage

- Birth | 59 kg
- 7 m | 410 kg
- 12 m | 625 kg

(scale: 0, 200, 400, 600, 800)

Morphological Rating	ADG$_{IE}$	ICO
81,75	1,327	120

Trisco II AG

Date of Birth: **21/01/2012** | Breeder: **Alberto Quiroga**
Individual ID: **TC-6169**
Ear Tag: **ES071109356294**

Genealogy

- Teixo V AG CY-317
- Lupa CG-2151
- **Xato AG** CV-1410
- Romera TC-938
- **Trisco AG** VM-191
- Linda TC-2584
- **Trisco II AG**

Individual Evaluation

Weights in testing cage

Birth	41 kg
7 m	310 kg
12 m	545 kg

(scale: 0 200 400 600 800)
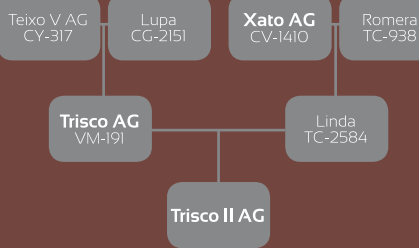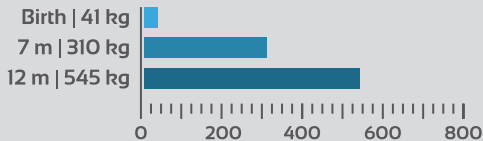
Morphological Rating	ADG$_{IE}$	ICO
80	1,800	105

Images courtesy of IGP TG
"Gallega Suprema" category ribeye cut from Galician Blond beef

Stud bulls with individual evaluation

(progeny testing in progress)

Grazán AG

Date of Birth: **20/06/2013** | Breeder: **Alfredo Arias**
Individual ID: **D-4004**
Ear Tag: **ES051109950705**

Genealogy

Arroxo AG NJ-3210	Xata CG-8963	**Rufo** PP-533	Chica D-1315
Miño AG CG-13632		Lucera D-2408	
	Grazán AG		

Individual Evaluation

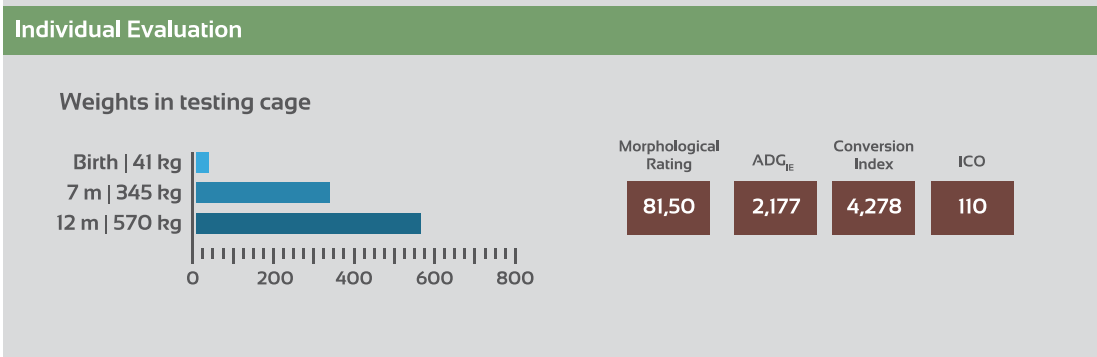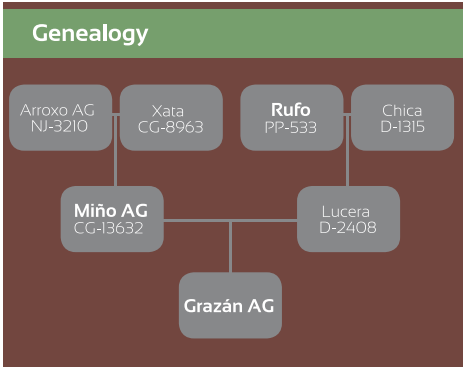### Weights in testing cage

Birth | 41 kg
7 m | 345 kg
12 m | 570 kg

(0 – 200 – 400 – 600 – 800)

Morphological Rating	ADG$_{IE}$	Conversion Index	ICO
81,50	2,177	4,278	110

Juanito AG

Date of Birth: **31/08/2013** | Breeder: **José Luis Fernández**
Individual ID: **CG-21825**
Ear Tag: **ES031110083973**

Genealogy

Pavaroti AG CV-2371	Pichona CG-5615	**Palmeiro AG** CN-725	Marela CG-7021
Platero AG CG-8033		Gallarda CG-13631	
	Juanito AG		

Individual Evaluation

Weights in testing cage

Birth | 45 kg
7 m | 428 kg
12 m | 658 kg

(0 – 200 – 400 – 600 – 800)

Morphological Rating	ADG$_{IE}$	Conversion Index	ICO
82,00	1,666	5,74	108
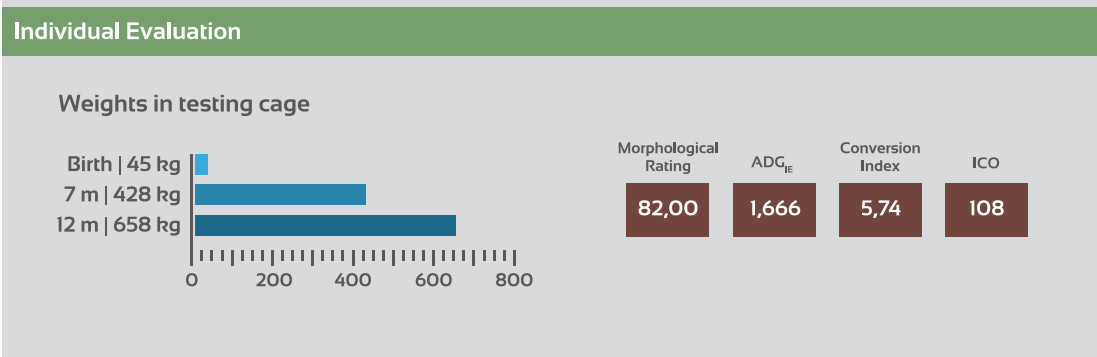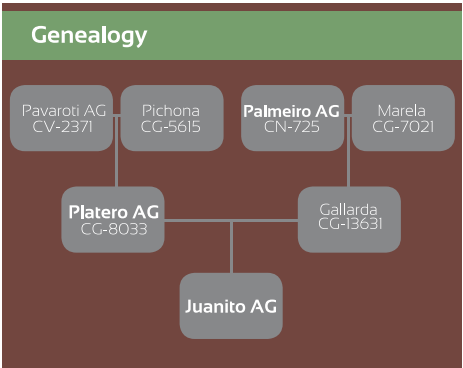
Stud bulls with individual evaluation (progeny testing in prog.)

Galano Ag

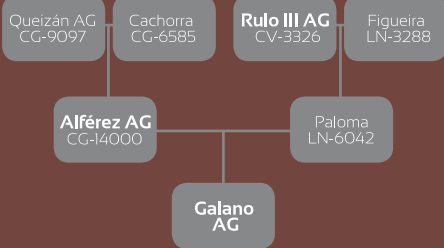Date of Birth: **03/01/2013** | Breeder: **Ramón Alonso Fernández**
Individual ID: **LN-15190**
Ear Tag: **ES061109638365**

Genealogy

- Queizán AG CG-9097
- Cachorra CG-6585
- **Rulo III AG** CV-3326
- Figueira LN-3288
- **Alférez AG** CG-14000
- Paloma LN-6042
- **Galano AG**

Individual Evaluation

Weights in testing cage

Birth	46 kg
7 m	346 kg
12 m	620 kg

(scale 0 – 200 – 400 – 600 – 800)
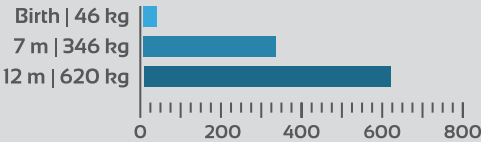
Morphological Rating	ADG_{IE}	Conversion Index	ICO
83,00	1,57	5,82	114

Xeitoso AG

Date of Birth: **10/03/2013** | Breeder: **Manuel Tallón**
Individual ID: **LN-15646**
Ear Tag: **ES091109944014**

Genealogy
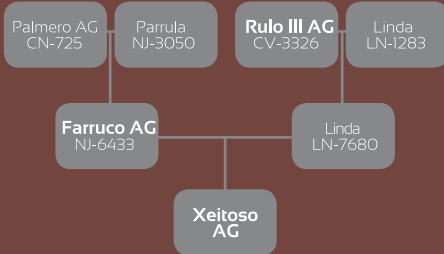
- Palmero AG CN-725
- Parrula NJ-3050
- **Rulo III AG** CV-3326
- Linda LN-1283
- **Farruco AG** NJ-6433
- Linda LN-7680
- **Xeitoso AG**

Individual Evaluation

Weights in testing cage

Birth	50 kg
7 m	423 kg
12 m	634 kg

(scale 0 – 200 – 400 – 600 – 800)
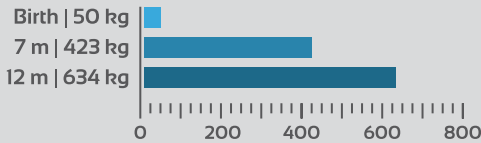
Morphological Rating	ADG_{IE}	Conversion Index	ICO
82,50	1,583	5,95	123

Stud bulls with individual evaluation (progeny testing in prog.)

COMPARISON OF BULLS WITH PROGENY TESTING IN PROGRESS

(Green bar: bulls most recommended for each characteristic)

CI

Bull	Value
Alférez	105
Amadeo	101
Amancio	114
Camilo	119
Campo	123
Conde	103
Cubillón	121
Farruco	137
Galano	114
Galo	120
Grande	95
Grazán	110
Juanito	108
Manteigo	105
Monciro	117
Muíño	106
Nicolás	115
Pastor IV	107
Pavaroti	104
Pelegrín II	107
Quijano	122
Teixo VI	94
Xeitoso	123
Zambrón	112
Caldeiro	99
Sequeiro	120
Trisco II	105

Calving Ease

Bull	Value
Alférez	91,40 %
Amadeo	92,60 %
Amancio	88,72 %
Camilo	95,20 %
Campo	89,09 %
Conde	93,93 %
Cubillón	95,81 %
Farruco	96,20 %
Galo	93,15 %
Grande	92,36 %
Manteigo	93,87 %
Monciro	92,37 %
Muíño	91,57 %
Nicolás	90,76 %
Pastor IV	93,28 %
Pavaroti	94,28 %
Pelegrín II	94,46 %
Quijano	94,01 %
Teixo VI	93,84 %
Zambrón	95,06 %
Sequeiro	94,88 %

Average Daily Gain (grams)

Bull	Value
Alférez	1235
Amadeo	1180
Amancio	1223
Camilo	1213
Campo	1313
Conde	1161
Cubillón	1241
Farruco	1269
Galo	1238
Grande	1130
Manteigo	1172
Monciro	1188
Muíño	1235
Nicolás	1317
Pastor IV	1263
Pavaroti	1048
Pelegrín II	1199
Quijano	1223
Teixo VI	1090
Zambrón	1148
Sequeiro	1266

Galician Blond Beef Foreshank with Chestnuts

Ingredients (4 servings):

- *1.000 g of Galician Blond beef foreshank*

- *120 g of onions*

- *100 g of leeks.*

- *150 g of carrots*

- *3 cloves of garlic*

- *40 ml of white wine (Ribeiro D.O.)*

- *20 ml of extra virgin olive oil*

- *2 sprigs of parsley*

- *Salt*

- *Whole peppercorns*

- *Chestnuts, cooked and peeled*

Imágenes cedidas por la IGP TG

Preparation:

Allow the meat to marinate overnight with all of the vegetables and spices. Brown the meat in the olive oil and add the marinade, then allow to cook very slowly for 3 hours.

When the Galician Blond meat is almost ready (tender), add the chestnuts and allow to cook all together for a couple of minutes longer.

Serving:

Serve each portion of meat on a plate surrounded by chestnuts.

acruga

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Cattle Breeders**

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