Country

Spain

Trait category:

Individual trait(s):

Conformation

Udder

Locomotion

Other

Calculation & publication:

Confederacion de Asociaciones de Frisona Española (CONAFE)

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Conformation traits	Udder:	mammary system, fore udder, rear udder
	Locomotion: Other:	feet & legs size, final score, corporal capacity, dairy character, rump
Breed(s)	Holstein Friesi	an
Trait definition and unit(s) of measuring	Size is scored on a linear 1-9 point scale. Final score is scored on a 65-90 point scale. Remaining traits are scored in 18 categories, which are transformed to a continuous scale by Snell Transformation	
Method of measuring and collecting data	Scored by classifier, herds are visited in a 9-10 month period	
Time period for data inclusion	Since 1984	
Age groups	All ages, but mostly 1st calvers	
Genetic parameters	$h_{\text{udder traits}}^2 = 0.24 \text{ to } 0.27$ $h_{\text{locomotion traits}}^2 = 0.10$ $h_{\text{other traits}}^2 = 0.20 \text{ to } 0.36$	
Sire categories	AI-sires and registered NS-sires	
Environmental effects pre-adjustment evaluation model	None Herd x visit x classifier, lactation number x age (76 categories), stage of lactation (11 classes)	
Base for age adjustment	None	
Use of genetic groups and/or relationships	Full relationship matrix	
Method (model) of genetic evaluation	ST BLUP AM	
System validation	Classifiers are monitored to promote consistency between them	
Expression of proof	Standardized breeding values so that 95% of bull proofs are between -15 an +15, higher values are more desirable	
Genetic (reference) base	Fixed base of	the cows born in 1990
Criteria for official publication of sire proofs	≥ 20 daughters in 10 herds	
Number of evaluations/ publications per year	Two; January, July	
Use in total merit index	ICO: 4 x kg fat + 2 x kg protein + 280 x % protein + 4 x feet & legs + 16 x mammary system + 16 x final score	
Key reference on methodology applied	Pena, J., R. Alenda, M.J. Carabaño & J.J. Jurado, 1992. Evaluación genética nacional del vacuno frisón español. Bovinotecnia 7: 187	