

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	ARGENTINA
Breed(s)	Argentine Holstein
Traits evaluated and units of measurement	Milk, fat (kg)
Number of lactations	1
Genetic parameters applied	$h^2 = 0.22$
Inclusion and extension of records	Sire identified records Age at calving 22-45 months Records < 90 days not included Records 90-305 days included without extension Records in progress not included
Sire categories evaluated	All sires
Effects considered by preadjustments	
by model of evaluation	Herd-year-season, age and month of calving, group of sires, sire
Base for age adjustment	
Use of genetic groups/relationships/pedigree	Genetic groups and relationships between sires based on sire and maternal grandsire
Method of evaluation used	Single trait BLUP
Expression of genetic merit	PD (kg)
Genetic base, kind/definition	Fixed, average sire PD for first lactation cows calving in 1982 weighted by number of daughters
Minimum requirements for official publication of sire proofs	20 daughters in 5 herds
Use of selection index or total merit index	No total merit index used
Name and address of organization responsible for sire evaluations and publishing of results	Sociedad Rural Argentina/ Asociacion Criadores de Holando Argentino Florida 460 Buenos Aires
Key references on methodology applied	

App.1

Country: Argentina

Number of tested AI bulls, means and standard deviations of proofs by year

		Predicted differences			
Year of birth of bulls	No. of* bulls	Milk kg		Fat kg	
		\bar{x}	S.D.	\bar{x}	S.D.
Breed: Argentine Holstein					
1969/71	30	-47	173	-1.5	5.1
72/74	42	-25	176	-1.0	5.2
75/77	30	-3	154	0.4	4.6
78/80	19	106	160	3.3	4.7

*Imported semen excluded

App.2

Country: Argentina

Average phenotypic levels of (adjusted) production records included in the sire evaluation procedures

Year of calving	Traits*	
	Milk kg	Fat kg
Breed: Argentine Holstein		
1980	3654	121
81	3802	127
82	3848	127
83	3781	124
84	3629	120
85	4077	134

*Not adjusted records, 1985 not completed