



CURRENT STATUS OF GENETIC EVALUATIONS OF DAIRY CATTLE IN BRAZIL

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Data from all breed's Association in Brazil are sent to EMBRAPA/CNPGL every year to be stored in the National Data Bank for Milk Control established in 1985 by the Ministry of Agriculture. One of the objectives of this data bank is to provide information for sire and cow evaluation. Up to 1992, data on daughters of 4439, 461 and 275 bulls from Holstein, Jersey and Brown Swiss were used in genetic evaluation. Production were standardized at mature equivalent age, 305 days and 2x. Methods used for genetic evaluation were the CC for sires and an index for cows.

RESULTS

Phenotypic ME and genetic means are presented in Table 1. Although these breeds produce in different herds, the Holstein was superior in milk and fat yield, but had less fat percentage than the others two.

The PD milk varies from -740 kg to +890 Kg with average of +123 for the 565 Holstein sires (Table 1) with repeatability greater than 35%. The greatest PD values for Jersey and Brown Swiss were 388 kg and 661 Kg.

Table 1. Phenotypic and genetic means for milk and fat yield and fat percentage for Holstein, Jersey and Brown Swiss.

Traits	Breeds		
	Holstein	Jersey	Brown Swiss
Number of lactations	118,895	3,231	3,613
Phenotypic means*	5,795	3,722	4,095
Milk (kg)	192	165	176
Fat (kg)	3.6	5.0	4.5
Fat (%)			
Number of sires with $r > .35$	565	24	26
Genetic means	+123	+28	+56
PD milk (kg)	+ 3,2	+ 3,6	+ 1,7
PD fat (kg)	- 0.05	+ 0.08	- 0.02
PD fat (%)			

* At mature equivalent, 305 days, 2x.



**CATTLE POPULATION AND MILK PRODUCTION
PER REGION, IN BRAZIL***

REGION	Cattle	Number of cows		Milk production		Yield per
	population	milked			cow/year	
	(1000)	(1000)	(1000 t)	%	(kg)	
NORTH	16,431	1,797	684	4.5	381	
CENTRAL-WEST	44,681	3,458	1,840	12.2	532	
NORTHEAST	26,816	3,917	2,174	14.4	555	
SOUTHEAST	36,949	7,902	6,991	46.4	885	
SOUTH	25,523	2,890	3,389	22.5	1,173	
TOTAL.....	150,400	19,964	15,079		755	

* Official data, 1991



EMBRAPA
NATIONAL DAIRY RESEARCH CENTRE

COUNTRY: BRAZIL

NUMBER OF TESTED AI BULLS AND MEANS OF PROOFS BY YEAR

YEAR OF EVALUATION	NO OF BULLS*	PREDICTED DIFFERENCES		
		MILK Kg \bar{X}	FAT kg \bar{X}	FAT % \bar{X}
BREED: HOLSTEIN				
1988	326	+ 79	+ 2.0	- .06
1990	433	+ 134	+ 3.6	- .03
1992	565	+ 123	+ 3.2	- .05
BREED: JERSEY				
1988	12	+ 92	+ 1.7	- .04
1990	13	+ 86	+ 1.7	- .01
1992	24	+ 28	+ 3.6	+ .08
BREED: BROWN SWISS				
	10	- 4	- 1.0	- .02
1988	18	+ 5	+ .3	+ .01
1990	26	+ 56	+ 1.7	- .02
1992				

* Imported semen included