

COUNTRY'S NAME	ITALY – SIM
Production traits	Milk, fat and protein
Breed	Simmental
Trait definition and unit of measurement	Milk, fat and protein yield (kg), fat and protein %. Recordings according to ICAR's A4 or A6 methods.
Criteria for inclusion & extension of records	The records due to non-identified sires (20%) are considered to estimate the HYS effect, but no index is computed for these animals. All records with at least two test-days are extended to 305 days lactation through a multiple-trait fixed factors model, which is based on the estimation of the daily yield of all days of milk. This happens through the estimated correlations between the known test-days.
Time period for data inclusion	Calvings since 1980, all known pedigree is used without limit.
Sire categories	All sires, NS=6.5%, AI (including imported bulls)=93.5%, ET=1-2%
Number of lactations included in the evaluation	The first lactation only
Environmental effects: Pre-adjustment	Days open as linear and quadratic function (last updated 1991).
Base for age pre-adjustment	
Method (model) of genetic evaluation	ST – BLUP – AM
Environmental effects in the genetic evaluation model	Fixed: Herd, year, season (6 bi-months) Covariable: Age and age squared in days
Use of genetic groups	The grouping is based on birth-year and country of origin.
Genetic parameters in the evaluation	H ² : milk= 0.33, fat= 0.31, protein= 0.29
System validation	Checks on data quality
Expression of genetic evaluations	EBV
Genetic (reference) base	Stepwise, cows born 1990
Next base change	Feb 2000
Criteria for official publication of evaluations	20 daughters in 10 herds and reliability ≥ 0.70
Number of evaluations / publications per year	3, February, August, November
Use in production / total merit index	Production Index: Simmental Quality Milk Index called ILQPR = Milk yield*25%+Fat yield*3%+Protein yield*72% IDA (Double Purpose Index): ILQPR*60%+Beef Index*20%+Longevity Index*10% + Milking Easy Index*10%.
Anticipated changes in the near future	May 2000: updating of coefficients for 305 days lactation extension, inclusion of more than one lactation in the evaluation.
Key reference on methodology applied	L. Buttazzoni 1991. "Genetic assessment through the BLUP ANIMAL MODEL method in the Italian Simmental breed" presented to the 19 th General Assembly of the European Simmental Federation, Grado (Italy) May 1-4 1991 Trus D. e Buttazzoni L. 1990. "A multiple trait approach to modelling the lactation curves". In Proc. 4 th WCGALP XIII:492
Key organization: name, address, phone, fax, e-mail, web site	ANAPRI (Associazione Nazionale Allevatori Pezzata Rossa Italiana), via Ippolito Nievo 19, I-33100 Udine, Italy. Tel. 0039 432 510187 Fax 0039 432 26137 E-mail: anapri@anapri.it Web-site: www.anapri.it

COUNTRY: Italy – SIM											
Number of AI bulls (NB) tested, means (X), and standard deviations (SD) of proofs (kg, %) from most recent run, by bulls' year of birth (YB) and breed.											
YB	NB	Milk		Fat		Protein		Fat %		Protein %	
		X	SD	X	SD	X	SD	X	SD	X	SD
Breed Italian Simmental											
1985	16	-150	387	-6	17	-4	11	0,00	0,12	0,04	0,09
1986	20	-156	315	-6	10	-4	9	0,00	0,14	0,04	0,10
1987	18	13	304	1	9	0	8	0,01	0,16	0,00	0,09
1988	23	26	322	3	10	1	7	0,05	0,15	0,01	0,12
1989	29	2	266	-1	11	0	8	-0,01	0,15	0,00	0,07
1990	26	99	314	0	14	3	9	-0,08	0,17	0,00	0,11
1991	22	48	369	1	15	2	10	0,01	0,25	0,01	0,10
1992	16	79	360	5	16	3	10	0,05	0,18	0,01	0,08
1993	30	255	348	6	17	7	11	-0,08	0,21	-0,02	0,09
1994	13	375	350	10	12	10	8	-0,09	0,13	-0,04	0,10

COUNTRY: Italy – SIM											
Average of adjusted production records (kg, %) included in the most recent evaluation run, by daughters' year of calving (YC) and breed.											
YC	Milk		Fat		Protein		Fat %		Protein %		
	X	SD	X	SD	X	SD	X	SD	X	SD	
Breed Italian Simmental											
1989	4341		168		145		3,90		3,35		
1990	4479		173		150		3,86		3,34		
1991	4611		179		155		3,89		3,37		
1992	4690		181		158		3,86		3,37		
1993	4752		184		162		3,88		3,40		
1994	4801		187		164		3,90		3,41		
1995	4867		191		168		3,92		3,46		
1996	5097		200		175		3,92		3,44		
1997	5298		211		182		3,99		3,43		
1998	5382		214		185		3,97		3,43		