FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR PRODUCTION TRAITS

COUNTRY: FINLAND	
Breed(s)	Finnish Ayrshire, Finnish Friesian, Finncattle.
Trait(s) evaluated and unit(s) of measurement	Milk (kg), fat (%) and protein (kg,%)
Number of lactations	Maximum of 3
Genetic parameters assumed	h^2:yield = 0.30, t = 0.50 h^2:contents = 0.50, t = 0.65
Criteria for inclusion and extension of records	All first lactation records over 95 days, if not complete, are extended using multiple regression and treated then as full records. Only completed second and third lactation records are included
Sire categories evaluated	All sires

Environmental effects considered
  by pre-adjustment
 	
  by evaluation model
	-
	
	Herd*year, age within lactation number and DO, month, PE

Base for age adjustment (months)	-
Use of genetic groups and/or relationships	Groups are assigned to animals with unknown parents according to the breed, sex and birth year of the animal. Full relationship matrix.
Method of evaluation	ST BLUP repeatability AM
Expression of proof	EBV, standardized index with mean=100, SD=10
Genetic (reference) base	Rolling, average of three latest batches of young bulls, i.e. for 1991 it is bulls born in 82-83-84
Criteria for official publication of sire proofs	20 full 305 d. lactation records
Number of evaluations/ publications per year	2
Use of production index	Protein yield, protein % and fat % are included in a total merit index with weights for standardized indices 1.0, 0.3 and -0.4 respectively
Name, address and faxnumber of organization responsible for sire evaluation and publication	The Finnish Animal Breeding Association P.O. Box 40, SF-01301 Vantaa, Finland Fax: +358 0 833949
Key references on methodology applied	Mäntysaari E.A. and I. Strandén, 1991. Animal model evaluation for production traits in Finnish Dairy Cattle. 42nd Annual meeting of EAAP, Berlin.

COUNTRY: FINLAND

Number of AI bulls (NB) tested, means (X) and standard deviations (SD) of proofs (kg) from most recent run, by bull's year of birth (YB) and breed

YB	NB	Milk X	Milk SD	Fat X	Fat SD	Protein X	Protein SD	Fat % X	Fat % SD	Protein % X	Protein % SD
Breed:						Finnish Ayrshire					
1982	265	241	326			7.2	8.4	0.08	0.29	-0.01	0.12
1983	221	288	334			6.6	8.8	0.04	0.29	-0.05	0.13
1984	237	255	381			7.4	9.8	0.09	0.26	-0.01	0.13
1985	243	187	444			6.8	11.3	0.12	0.26	0.01	0.12
1986	200	315	346			10.5	10.0	0.14	0.23	0.01	0.09
1987	43	307	353			10.5	9.5	0.12	0.17	0.02	0.09
Breed:						Finnish Friesian					
1982	55	445	363			10.1	9.5	-0.27	0.27	-0.09	0.13
1983	55	445	321			11.1	9.2	-0.25	0.23	-0.08	0.12
1984	48	377	305			6.5	9.3	-0.37	0.19	-0.11	0.10
1985	69	372	327			7.1	9.6	-0.31	0.25	-0.09	0.10
1986	66	525	344			12.6	9.5	-0.28	0.26	-0.08	0.09
1987	10	476	412			10.5	12.0	-0.23	0.19	-0.09	0.05
Breed:						Finncattle					
1982	10	-922	276			-21.9	9.3	0.25	0.22	0.19	0.11
1983	9	-768	320			-19.3	8.9	0.23	0.41	0.13	0.14
1984	6	-816	602			-23.6	17.5	0.27	0.26	0.07	0.11
1985	12	-864	336			-25.0	9.3	0.16	0.20	0.07	0.11
1986	5	-634	201			-14.8	5.0	0.16	0.22	0.16	0.07