

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	CZECHOSLOVAKIA
Breed(s)	Fleckvieh, Friesian, Pinzgauer
Traits evaluated and units of measurement	Milk (kg) and fat (kg, %)
Number of lactation	1
Genetic parameters applied	h^2 milk yield = 0.25 fat yield = 0.22 fat % = 0.25
Inclusion and extension of records	Records 250-305 days without extension Records in progress, incl. culled cows, after min. 3 measurements (approx. 100 days) included after extension. Records terminated through drying off to 250 days excluded.
Sire categories evaluated	All bulls
Effects considered by preadjustments	Age at 1st calving, service period
by model of evaluation	Herd-year-season, groups of mothers according to percentage of blood of other breeds
Base for age adjustment	Rolling base - average calving age during last three years
Use of genetic groups/relationships/pedigree	Groups of sires according to percentage of blood of other breeds and to age (young vs. old bulls)
Method of evaluation used	Single trait BLUP
Expression of genetic merit	BV (kg, %) and RBV
Genetic base, kind/definition	Rolling base - average of all first-calvers in last three years
Minimum requirements for official publication of sire proofs	30 efficient daughters
Use of selection index or total merit index	No
Name and address of organization responsible for sire evaluations and publishing of results	State Breeding Enterprises CS-252 09 HRADISTKO Czechoslovakia State Breeding Enterprises Paulinyho Tótha 1 CS-812 13 BRATISLAVA, Czechoslovakia

Key references on methodology applied Čermák, Příbyl, Šereda, Váchal: Evaluation of progeny results through linear model of the BLUP method in CSSR; Acta sci. Bohemoslov. (1987)

Country: Czechoslovakia

App. 1

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

		Relative breeding values			
Year of proof	No. of bulls	Milk yield		Fat yield	
		\bar{x}	S.D.	\bar{x}	S.D.
Breed: Fleckvieh					
1980	403	98.1	8.3	98.2	7.9
81	361	97.3	7.8	97.3	9.0
82	328	96.3	7.6	96.3	7.6
83	281	97.3	8.2	97.2	8.1
84	345	97.9	7.4	97.5	8.5
85	318	98.4	7.4	98.5	7.3
86	365	98.5	7.3	97.9	8.7
87	405	100.0	8.8	100.0	8.4
Breed: Friesian					
1980	57	98.2	7.2	98.0	7.1
81	84	97.4	6.5	97.7	7.1
82	50	99.1	8.3	99.1	7.4
83	48	98.0	8.3	98.7	7.4
84	35	100.3	7.1	100.8	7.4
85	47	100.0	7.8	100.1	6.6
86	41	99.4	7.4	99.4	7.3
87	101	100.0	8.9	100.0	8.4

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

Year of production	Traits		
	Milk kg	Fat kg	Fat %
Breed: Fleckvieh			
1980	2914	119	4.10
81	3033	123	4.07
82	3033	124	4.08
83	3104	125	4.03
84	3238	130	4.00
85	3300	134	4.04
86	3361	136	4.03
87	3317	136	4.11
Breed: Friesian			
1980	3337	132	3.97
81	3346	135	4.02
82	3457	139	4.01
83	3352	132	3.94
84	3423	139	4.06
85	3720	151	4.07
86	3566	147	4.11
87	3638	147	4.04