

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	GERMAN DEMOCRATIC REPUBLIC
Breed(s)	Black and White (SMR)
Traits evaluated and units of measurement	Milk, fat and protein (kg), fat and protein %
Number of lactations	1
Genetic parameters applied	$h^2=0.25$ for yield, $h^2=0.35$ for %
Inclusion and extension of records	Age of calving 26-36 months. All lactations 100-240 days extended to 305 days
Sire categories evaluated	All sires
Effects considered by preadjustments	Age at calving, stage of pregnancy, effects or crossbreed
by model of evaluation	Herd-year-season, sire
Base for age adjustment	-
Use of genetic groups/relationships/pedigree	-
Method of evaluation used	MCC
Expression of genetic merit	PD (kg, %)
Genetic base, kind/definition	Rolling, average 1:st lactations of all daughters of all bulls tested last year
Minimum requirements for official publication of sire proofs	40 eff. daughters
Use of selection index or total merit index	Total merit index for milk, fat and protein yield, fat %, protein %, milkability and udder condition
Name and address of organization responsible for sire evaluations and publishing of results	VVB Tierzucht 1551 Paretz DDR
Key references on methodology applied	Standard TGL 20834/01 - Testing of Performance and Breeding Value-Testing of breeding value for AI-bulls of dual-purpose cattle

Country: German Democratic Republic

App.1

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

Year of first proof	No. of bulls	Predicted differences									
		Milk kg		Fat kg		Prot. kg		Fat %		Prot. %	
		\bar{x}	S.D.	\bar{x}	S.D.	\bar{x}	S.D.	\bar{x}	S.D.	\bar{x}	S.D.
Breed: Black and White (SMR)											
1979	528	80	200	16	7.4	9	6.1	0.37	0.15	0.18	0.07
80	523	98	194	17	7.4	10	5.5	0.38	0.14	0.18	0.07
81	561	106	189	18	7.2	11	5.2	0.39	0.12	0.19	0.06
82	572	124	184	18	7.1	10	5.0	0.39	0.12	0.19	0.07
83	507	141	169	19	6.7	11	5.1	0.39	0.13	0.18	0.05
84	505	143	166	20	6.3	11	4.8	0.40	0.13	0.18	0.06

Country: German Democratic Republic

App.2

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

Year of production	Traits				
	Milk kg	Fat kg	Protein kg	Fat %	Protein %
Breed: Black and White (SMR)					
1979	3514	145	119	4.13	3.38
80	3575	147	123	4.10	3.44
81	3643	149	124	4.08	3.41
82	3635	147	121	4.05	3.32
83	3578	144	117	4.02	3.27
84	3892	157	130	4.04	3.33