FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	DENMARK
Breed(s)	Danish Black and White, Danish Jersey, Danish Red, Danish Red and White
Traits evaluated and units of measurement	Milk, fat and protein (kg)
Number of lactations	1
Genetic parameters applied	h^2:milk=0.29; fat=0.27; protein=0.30 C-effects=0.10
Inclusion and extension of records	Culled cows: <46 days not included, 46-305 days included after extension In progress: Extended, but given less weight than completed records
Sire categories evaluated	All sires with first batch of daughters
Effects considered by preadjustments	Age, season, herd, days open, genetic merit of dam and mates
by model of evaluation	Sire
Base of age adjustment	Actual contemporary population mean
Use of genetic groups/ relationship/pedigree	All pedigree information included
Method of evaluation used	HMC (Direct updating)
Expression of genetic merit	RBV
Genetic base, kind/definition	Rolling, average of bulls published and under test
Minimum requirements for official publication of sire proofs	60% repeatability
Use of selection index or total merit index	Total merit index used
Name and address of organization responsible for sire evaluations and publishing of results	National Committee for Danish Cattle Husbandry Udkaersvej 15, DK-8200 Aarhus N Denmark
Key references on methodology applied	Christensen, L.G., 1984. Direct updating of breeding values. IDF/EAAP Symp. on progeny testing methods in dairy cattle, Prague. Sept. 14-16. Doc. 183, 33-47.

Country: Denmark

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

Year of proof of bull	No. of bulls	Relative breeding values: Milk (M-indeks) $\bar{x}$	Milk S.D.	Fat (F-indeks) $\bar{x}$	Fat S.D.	Protein (P-indeks) $\bar{x}$	Protein S.D.
Breed: Danish Black and White							
1980	219			82.3	7.1		
81	145			84.3	7.7		
82	174			83.6	8.7		
83	256			86.9	8.2		
84	203			88.9	7.4		
85	225	94.7	9.7	92.2	8.2	95.1	8.3
86	186	97.4	8.1	96,5 ~~92.5~~	8.3	96.5	7.2
87	270	100.0	8.3	100.3	8.8	101.2	7.8
Breed: Danish Jersey							
1980	55			91.3	6.9		
81	49			90.5	6.7		
82	53			92.8	6.9		
83	60			94.0	7.0		
84	64			96.3	5.7		
85	72	99.2	7.1	97.7	5.6	99.5	5.5
86	62	96.5	7.7	98.7	7.6	99.1	7.8
87	75	101.5	8.9	103.2	6.4	102.4	6.7
Breed: Danish Red							
1980	89			91.2	6.8		
81	87			91.9	7.6		
82	85			92.3	7.1		
83	93			94.3	8.0		
84	86			96.6	7.8		
85	96	97.8	8.3	95.8	7.2	97.8	7.7
86	68	99.3	7.1	97.6	7.4	98.9	6.4
87	107	103.4	8.0	102.6	8.2	103.9	7.8

Country: Denmark

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

Year of calving	Traits		
	Milk kg	Fat kg	Protein kg
Breed: Danish Black and White			
1978	4676	188	
79	4824	194	
80	4822	192	
81	4735	189	
82	4782	192	
83	5052	204	
84	5175	207	
85	5654	225	
86	5973	240	196
87	6158	249	200
Breed: Danish Jersey			
1978	3444	217	
79	3534	227	
80	3580	224	
81	3455	211	
82	3519	216	
83	3620	222	
84	3681	224	
85	3818	237	
86	4086	255	161
87	4135	260	161
Breed: Danish Red			
1978	4642	194	
79	4820	202	
80	4791	199	
81	4675	194	
82	4769	198	
83	4972	207	
84	5120	212	
85	5409	224	
86	5760	238	200
87	5900	246	203