FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR PRODUCTION TRAITS							
COUNTRY: SOUTH AFRICA							
Breed(s)	Ayrshire, Friesian, Guernsey, Jersey						
Trait(s) evaluated and unit(s) of measurement	Milk (kg), fat and protein (kg,%)						
Number of lactations	1						
Genetic parameters assumed	$h^2 = 0.25$						
Criteria for inclusion and extension of records	All first lactations within the range 16-40 months for age at calving are considered. Normally terminated records of 240-300 days are utilized. Records of cows culled from herds and records in progress are excluded						
Sire categories evaluated	All sires						
Environmental effects considered by pre-adjustment	240-299 days (normally terminated) lactation standardized to 300 days.						
by evaluation model	Herd*year*grade, age at calving						
Base for age adjustment (months)	-						
Use of genetic groups and/or relationships	All relationship used						
Method of evaluation	ST BLUP AM						
Expression of proof	RBV (% of mean)						
Genetic (reference) base	Rolling, average yield of daughters (cows) of all sires (AI+NS) with production last year						
Criteria for official publication of sire proofs	Rpt. ≥ 0.40						
Number of evaluations/ publications per year	2						
Use of production index	No total merit index used						
Name, address and faxnumber of organization responsible for sire evaluation and publication	Animal and Dairy Science Research Institute Private Bag X2, Irene 1675 Rep. of South Africa						
Key references on methodology applied	Nat. dairy cattle performance prog. testing scheme annual report, 1991, Volume 11						

COUNTRY: SOUTH AFRICA

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 %		
Breed:			Friesian		•		
1980	3971	145	131				
1981	4087	148	136				
1982	4175	152	139				
1983	4323	155	142				
1984	4321	154	142				
1985	4399	157	145				
1986	4420	159	143				
1987	4466	159	143				
1988	4305	155	140				
1989	4317	155	141				
Breed:	Jersey						
1980	2859	134	107				
1981	2992	138	115				
1982	3066	143	118				
1983	3172	144	120				
1984	3120	142	119		 		
1985	3190	143	120		 		
1986	3180	143	117		1		
1987	3223	145	120				
1988	3164	143	119				
1989	3138	143	118				
Breed:			Ayrshire				
1980	3543	134	120				
1981	3584	135	124				
1982	3777	144	130		1		
1983	3727	139	128				
1984	3933	145	135				
1985	3826	144	131				
1986	3886	147	131				
1987	3873	146	131				
1988	3886	147	133				
1989	3880	147	133				
Breed:	Guernsey						
1980	3015	130	104				
1981	3265	138	115				
1982	3653	160	131				
1983	3600	157	128				
1984	3507	149	126				

COUNTRY: SOUTH AFRICA								
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 %			
1985	3488	145	124					
1986	3589	152	125					
1987	3582	150	124					
1988	3542	154	126					
1989	3534	153	126					