COUNTRY'S NAME	SWEDEN
Production traits	**Milk, fat and protein**
Breed	Ayrshire, Holstein
Trait definition and unit of measurement	Milk, fat and protein yield (kg), fat and protein content (%).
Criteria for inclusion & extension of records	Age at calving 20-36 months. 46-305 days in milk. Records of culled cows are extended from 46 days. Records from lactations in progress are included from 100 days.
Time period for data inclusion	Data from 1983 and onwards are included. In the pedigree cows/bulls are included from birth year 1950 and onwards
Sire categories	Only AI sires (25% of AYS calves and 50% of HOL calves are ET produced).
Number of lactations included in the evaluation	1
Environmental effects: Pre-adjustment **Base for age pre-adjustment**	
Method (model) of genetic evaluation	ST – BLUP – AM
Environmental effects in the genetic evaluation model	Age at calving (first), month of calving, number of days open (current)
Use of genetic groups	Genetic groups by birth year and country of origin
Genetic parameters in the evaluation	$h^2 = 0.30$
System validation	A wide range of checks on data input quality. Validation methods 2 and 3 recommended by Interbull
Expression of genetic evaluations	RBV AYS: EBV kg milk =(RBV-100) * 71 EBV kg fat = (RBV-100) * 3 EBV kg protein = (RBV-100) * 2.4 HOL: EBV kg milk =(RBV-100) * 76 EBV kg fat = (RBV-100) * 3 EBV kg protein = (RBV-100) * 2.4
Genetic (reference) base **Next base change**	Rolling base, average RBV of the three latest years of tested bulls = 100 The base changes every January
Criteria for official publication of evaluations	15 efficient daughters, 15 completed 305 day lactations
Number of evaluations / publications per year	4, Feb, May, Aug, Nov
Use in production / total merit index	AYS: Milk index = -0.1 (RBV_{milk}-100) + 1.0 ($RBV_{protein}$-100) + 0.1 (RBV_{fat}-100)+100 HOL: Milk index = -0.2 (RBV_{milk}-100) + 1.05($RBV_{protein}$-100) + 0.2 (RBV_{fat}-100)+100
Anticipated changes in the near future	ST – BLUP – AM MULTIPLE LACTATIONS Late 2000
Key reference on methodology applied	
Key organization: name, address, phone, fax, e-mail, web site	Swedish Dairy Association, S-631 84 Eskilstuna, Phone +46 16 163400, Fax +46 16 163465, E:mail: jan-ake.eriksson@svenskmjolk.se home page: http://www.svenskmjolk.se

COUNTRY: Sweden

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

		Milk		Fat		Protein		Fat %		Protein %	
YB	NB	X	SD	X	SD	X	SD	X	SD	X	SD
Breed		Swedish Red and White (SRB, AYS)									
1984	163	92	6	96	6	92	5	105	7	101	4
1985	153	93	6	97	6	94	5	105	6	101	3
1986	138	94	6	97	6	95	6	103	5	100	3
1987	138	97	6	99	6	97	6	102	5	100	4
1988	143	97	6	101	5	97	5	104	6	101	3
1989	115	97	7	100	6	97	6	103	7	100	5
1990	93	97	7	99	6	98	6	102	7	101	4
1991	111	100	6	101	7	100	6	100	7	100	4
1992	113	102	6	101	6	102	6	98	5	99	4
1993	103	105	6	103	6	104	6	98	5	99	3
Breed		Swedish Friesian (SLB, HOL)									
1984	114	86	6	93	6	87	5	108	7	102	4
1985	87	89	7	93	7	90	7	104	6	102	4
1986	103	88	7	94	6	90	6	106	7	102	4
1987	102	90	7	95	6	92	7	105	7	102	4
1988	73	93	7	96	6	94	6	102	7	101	4
1989	86	95	7	98	7	95	6	103	8	100	4
1990	75	98	8	100	7	98	7	102	8	100	4
1991	86	99	6	100	7	99	6	101	6	100	3
1992	123	102	6	100	7	102	6	99	7	100	3
1993	43	102	6	101	7	102	6	99	6	100	3

COUNTRY: Sweden

Average of adjusted production records (kg, %) included in the most recent evaluation run, by daughters' year of calving (YC) and breed.

	Milk		Fat		Protein		Fat %		Protein %	
YC	X	SD	X	SD	X	SD	X	SD	X	SD
Breed	Swedish Red & White (SRB, AYS)									
1988	5652		243		196		4.31		3.47	
1989	5764		248		198		4.31		3.43	
1990	5847		251		199		4.3		3.41	
1991	6031		259		203		4.29		3.36	
1992	6195		268		209		4.32		3.38	
1993	6241		272		213		4.36		3.4	
1994	6357		280		218		4.4		3.42	
1995	6557		290		224		4.41		3.42	
1996	6736		294		228		4.37		3.38	
1997	6880		296		230		4.3		3.34	
1998	7041		302		236		4.3		3.35	
Breed	Swedish Friesian (SLB, HOL)									
1988	5780		233		197		4.03		3.4	
1989	5892		238		197		4.04		3.35	
1990	5967		242		198		4.06		3.32	
1991	6116		250		201		4.09		3.28	
1992	6292		259		207		4.12		3.29	
1993	6429		265		212		4.13		3.3	
1994	6666		274		220		4.12		3.3	
1995	6988		285		229		4.08		3.27	
1996	7220		292		234		4.04		3.23	
1997	7374		296		237		4.01		3.21	
1998	7550		300		243		3.97		3.2	