

FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR PRODUCTION TRAITS	
COUNTRY: SWITZERLAND	
Breed(s)	[I] Swiss Braunvieh, [II] Holstein Friesian
Trait(s) evaluated and unit(s) of measurement	Milk (kg), Fat and Protein (kg,%)
Number of lactations	1-4
Genetic parameters assumed	h^2 : Milk=0.30, t =0.50; Fat kg=0.29, t =0.50; Protein kg=0.25, t =0.50; Fat %=0.58, t =0.75; Protein %=0.67, t =0.80
Criteria for inclusion and extension of records	Completed and terminated records \geq 80 days included after extension. Records in progress are utilized.
Sire categories evaluated	All sires
Environmental effects considered by pre-adjustment	Calving age, DO, lactation length, lactation number
by evaluation model	Herd or herdclass*time period*parity, PE, [I] calving year*calving season*alpine pasture*altitude group, [II] calving year*calving season
Base for age adjustment (months)	1 lactation (32 months)
Use of genetic groups and/or relationships	Full relationship matrix and genetic groups for unknown parents based on sex, year of birth and origin
Method of evaluation	ST BLUP repeatability AM
Expression of proof	EBV
Genetic (reference) base	[I] Fixed, bulls born 1977-1979; [II] Rolling, average EBV of local bulls of the 3 latest years
Criteria for official publication of sire proofs	10 daughters (NS) 30 daughters (AI)
Number of evaluations/publications per year	3
Use of production index	No
Name, address and faxnumber of organization responsible for sire evaluation and publication	Swiss Braunvieh Cattle Breeders Association Chamerstr. 56 CH-6300 Zug Fax: 042 21 22 06

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PRODUCTION TRAITS**

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Key references on methodology
applied

Casanova, L. 1991. Zuchtwertschätzung mit einem
Wiederholbarkeits-Tiermodell beim Schweizer
Braunvieh. Diss. ETH Nr. 9389

Casanova et al. 1992. Inbreeding in Swiss Braunvieh
and its influence on Breeding Values predicted from
a Repeatability Animal Model. J.Dairy Sci. 75, 1119-
1126

Casanova, L. 1992. Das BLUP-Tiermodell. Schweizer
Braunvieh 10, 3-14

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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:	Swiss Braunvieh				
1981	3831	146	126	3.80	3.29
1982	3872	147	127	3.79	3.29
1983	4001	152	132	3.79	3.29
1984	4137	158	136	3.81	3.30
1985	4214	162	138	3.84	3.28
1986	4236	163	141	3.84	3.32
1987	4219	163	139	3.85	3.29
1988	4338	169	143	3.88	3.29
1989	4460	177	147	3.96	3.29
1990	4490	179	147	3.99	3.28
1991	4575	183	151	3.99	3.29
Breed:	Holstein Friesian				
1981	4499			3.68	3.18
1982	4887			3.78	3.15
1983	4708			3.80	3.18
1984	4859			3.79	3.19
1985	4896			3.88	3.16
1986	5058			3.89	3.18
1987	5165			3.81	3.19
1988	5100			3.90	3.15
1989	5048			3.87	3.11