

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	SWITZERLAND
Breed(s)	Black and White (Holstein-Friesian)
Traits evaluated and units of measurement	Milk (kg), fat and protein %
Number of lactations	1
Genetic parameters applied	h^2 : milk=0.34, fat%=0.31, protein%=0.38
Inclusion and extension of records	Sire identified, completed records with ≥ 80 days, calving age 18 to 39 months. Records with 80 to 269 days are extended to 305 days with multiplicative factors
Sire categories evaluated	All sires with ≥ 15 daughters in the data
Effects considered by preadjustments	
by model of evaluation	Herdclass, length of lactation, season, age group, production of dam (in classes), sire group, sire within group
Base of age adjustment	≤ 24 months
Use of genetic groups/relationships/pedigree	Local. vs. imported sires
Method of evaluation used	Single trait BLUP
Expression of genetic merit	BV (kg, %)
Genetic base, kind/definition	Rolling base, average breeding value of local bulls of the 3 latest years=0
Minimum requirements for official publication of sire proofs	40 eff. daughters with 80-305 days for AI bulls 15 eff. daughters with 80-305 days for NS-bulls
Use of selection index or total merit index	No
Name and adress of organization responsible for sire evaluations and publishing of results	Fédération Suisse d'Elevage de la Race Tachetée Noire Grangeneuve CH-1725 Posieux FR Suisse
Key references on methodology applied	Schneeberger: Die Nachzuchtprüfung beim Schwarzfleckvieh. Weiterbildungskurs SVIAL, 11./12. Juni 1981

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	SWITZERLAND
Breed(s)	Braunvieh (Brown Swiss)
Traits evaluated and units of measurement	Milk (kg), fat and protein %
Number of lactations	1
Genetic parameters applied	h^2 : milk=0.30, fat%=0.58, protein%=0.67
Inclusion and extension of records	Sire identified, completed records with ≥ 80 days, age at calving 18 to 40 months Records with 80 to 249 days are extended to 305 days with multiplicative factors
Sire categories evaluated	All sires with ≥ 10 daughters in the data
Effects considered by preadjustments	Age at calving, days open, alpine pasture, subtraction of $\frac{1}{2}$ BV of dam for milk yield (starting in October, 1988)
by model of evaluation	Herdclass, region-year-season, sire group, sire within group
Base of age adjustment	4th lactation, 70 months
Use of genetic groups/relationships/pedigree	Groups according to percentage US Brown Swiss genes and year of birth
Method of evaluation used	Single trait BLUP
Expression of genetic merit	BV (kg,%)
Genetic base, kind/definition	Fixed base, pure Swiss Braunvieh bulls born 1977-1979
Minimum requirements for official publication of sire proofs	AI: 50 daughters NS: 10 daughters
Use of selection index or total merit index	No
Name and adress of organization responsible for sire evaluations and publishing of results	Herdebuchstelle für Braunvieh Chamerstrasse 56 CH-6300 Zug Schweiz
Key references on methodology applied	Grüter: Was sagen die Resultate der Nachzuchtprüfungen über den züchterischen Wert unserer Stiere aus? Schweizer Braunvieh 1982 (5/6). Nachzuchtprüfung auf Milchleistung. Schweizer Braunvieh 1988 (4).

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	SWITZERLAND
Breed(s)	Fleckvieh (Simmental)
Traits evaluated and units of measurement	Milk, fat and protein (kg), fat and protein %
Number of lactations	1
Genetic parameters applied	h^2 : milk=0.27, fat kg =0,30, fat % =0,45, protein kg = 0,26, protein % =0,43
Inclusion and extension of records	Sire identified, completed records with >80 days Records with 80 to 269 days are extended to 305 days with multiplicative factors
Sire categories evaluated	All sires with ≥ 10 daughters in the data in 6 years
Effects considered by preadjustments	Age at calving, duration of lactation, breeding value of dam
by model of evaluation	Herdclass-region-year and season of calving, alpine pasture, sire group, sire within group
Base of age adjustment	31 months
Use of genetic groups/relationships/pedigree	Groups according to percentage Red Holstein gene and year of birth
Method of evaluation used	Single trait BLUP
Expression of genetic merit	BV (kg,%)
Genetic base, kind/definition	Fixed base: pure Simmental bulls born 1977-1979.
Minimum requirements for official publication of sire proofs	NS: 15 daughters AI: 40 daughters
Use of selection index or total merit index	No
Name and adress of organization responsible for sire evaluations and publishing of results	Schweiz. Fleckviehzuchtverband Rüttistrasse CH-3052 Zollikofen/BE Schweiz
Key references on methodology applied	Neue Methode für die Zuchtwertschätzung von Stieren. Nr. 4/Juli 1988 "Simmentaler Fleckvieh"

Country: Switzerland

Number of AI bulls tested per year, averages and standard deviations of proofs by year

Year of first proof	No. of bulls ¹⁾	Breeding values					
		Milk kg		Fat %		Protein %	
		\bar{x}	S.D.	\bar{x}	S.D.	\bar{x}	S.D.
Breed: Black and White (Holstein-Friesian)							
1981 ²	41	119	339	0.032	0.223	-0.014	0.098
82	27	272	407	0.074	0.253	-0.034	0.136
83	24	57	352	0.092	0.210	0.011	0.116
84	32	101	320	0.048	0.256	0.013	0.124
85	36	19	380	0.088	0.250	-0.003	0.116
86	30	-9	382	0.059	0.232	0.001	0.091
87	31	104	414	-0.043	0.201	-0.013	0.112
88	13 ³	-183	346	0.155	0.298	0.027	0.097

¹Number of newly proven bulls per year (local and foreign)

²NS bulls with more than 15 daughters are included in the publishing of results 1981.

³Prel.figures, only 1 evaluation

Breed: Braunvieh (Brown Swiss)							
1981	79	242	408	0.073	0.246	-0.003	0.189
82	55	228	380	0.084	0.211	-0.012	0.166
83	72	402	465	0.089	0.236	-0.036	0.134
84	71	515	426	0.159	0.238	-0.014	0.111
85	74	470	365	0.102	0.201	-0.001	0.121
86	88	463	398	0.092	0.225	-0.013	0.120
87	69	363	410	0.067	0.265	-0.010	0.122
88 ⁴	86	613	521	0.083	0.192	0.015	0.123

⁴Fixed base, age correction to 4th lactation

Breed: Fleckvieh (Simmental)							
1984	85	848	641	-0.08	0.28	-0.04	0.17
86	80	1166	621	-0.04	0.27	0.02	0.15
88	97 ⁵	1040	603	0.08	0.29	-0.16	0.17

⁵All bulls, which have been used as test bulls in 1982/83 including Red Holstein bulls

Country: Switzerland

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

Year of proof ¹	Milk kg	Fat %	Protein %
Breed: Black and White (Holstein-Friesian)			
1981	4499	3.68	3.18
82	4887	3.78	3.15
83	4708	3.80	3.18
84	4859	3.79	3.19
85	4896	3.88	3.16
86	5058	3.89	3.18
87	5165	3.81	3.19
88	5100	3.90	3.15

¹Due to the change of the sire evaluation method in 1981 (BLUP), previous records are not available for comparison

Breed: Braunvieh (Brown Swiss)			
1981	3669	3.94	3.32
82	3751	3.90	3.32
83	3907	3.87	3.32
84	3919	3.87	3.31
85	3997	3.86	3.31
86	4070	3.84	3.30
87	4146	3.84	3.30
88	5741 ²	3.85	3.30

²Correction to 4th lactation

Breed: Fleckvieh (Simmental)³			
1981	4221	3.96	3.32
82	4377	3.92	3.31
83	4379	3.95	3.33
84	4455	3.96	3.32
85	4588	4.02	3.26
86	4739	4.04	3.24
87	4767	4.08	3.27
88	4603 ⁴	4.05	3.27

³Calving age 29 to 32 months, 270-305 days, breed av. incl. RH-crosses.

⁴First lactation 305-days yield adjusted for calving age, duration of lactation and breeding value of dam.