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 %, protein %				
Number of lactations	1				
Genetic parameters applied	h ² : milk .34, fat .31, protein .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 fators				
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	Breeding value (kg, %)				
Genetic base, kind/definition	Rolling base, average breeding value of local bulls of the latest year = 0				
Minimum requirements for official publication of sire proofs	40 eff. daughters with 80-305 days for AI-bull 15 eff. daughters with 80-305 days for NS-bull				
Use of selection index or total merit index	No				
Name and address of organiza- tion 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

COUNTRY	SWITZERLAND	
Breed(s)	Braunvieh (Brown Swiss)	
Traits evaluated and units of measurement	Milk (kg), fat %, protein %	
Number of lactations	1	
Genetic parameters applied	h²: milk .30, fat .58, protein .6	. 7
Inclusion and extension of records	Sire identified, completed record >80 days, age at calving 18 to Records with 80 to 269 days are e to 305 days with multiplicative	ls with 40 months
Sire categories evaluated	All sires with \geq 10 daughters in the	
Effects considered by preadjustments	Age at calving, days open, alpine	
by model of evaluation	Herdclass-region-year-season, sire sire within group	e group,
Base of age adjustment	31 to 32 months	
Use of genetic groups/ relationships/pedigree	Groups according to percentage US Swiss genes and year of birth	Brown
Method of evaluation used	Single trait BLUP	
Expression of genetic merit	Breeding value (kg, %)	
Genetic base, kind/definition	Rolling base, last three years of p Swiss Braunvieh bulls	oure
inimum requirements for fficial publication of sire roofs	AI: 50 daughters NS: 10 daughters	
se of selection index r total merit index	No	
ame and address of organiza- ion responsible for sire valuations and publishing of esults	Herdebuchstelle für Braunvieh Chamerstrasse 56 CH-6300 Zug Schweiz	
y references on methodology plied	Grüter: Was sagen die Resultate der zuchtprüfungen über den züchterische unserer Stiere aus? Schweizer Braunv 1982 (5/6):	n Mont

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

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COUNTRY	SWITZERLAND				
3reed(s)	Fleckvieh (Simmental)				
Traits evaluated and units of measurement	Milk (kg), fat %, protein %				
Number of lactations	1				
Genetic parameters applied	h²: milk .25, fat and protein % .57				
Inclusion and extension of records	Sire identified, completed records with >88 days Records with 88 to 269 days are extended to 305 days with multiplicative factors calving age <40 months				
Sire categories evaluated	All sires with ≥ 5 daughters in the data				
Effects considered	Age at calving				
by preadjustments					
by model of evaluation	Herdclass, region, month of calving, alpir pasture, breeding value of dam (in classes sire group, sire within group				
n	29 to 32 months				
Base of age adjustment Use of genetic groups/ relationships/pedigree	Groups according to percentage Red Holstegene and age of bull (young vs. old)				
Method of evaluation used	Single trait BLUP				
Expression of genetic merit	Breeding value (kg %)				
Genetic base, kind/definition	Rolling base, young Simmental bulls				
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 organiza- tion responsible for sire evaluations and publishing of results	Schweiz. Fleck v iehzuchtverband Rüttistrasse CH-3052 Zollikofen/BE Schweiz				
Key references on methodology applied	Rüegsegger: Die neue Methode der Nachzuch prüfung der Stiere Mitteilungen Schweiz Fleckviehzuchtverband, April 1982				

Country: Switzerland

App. 1

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

		Breed	ing value)				
Year of	No. of 1)	Milk kg		Fat %		Protein %		
first proof	bulls	×	S.D.	x	S.D.	x	S.D.	
	and White (Ho	lstein-Fr	iesian)					
1981 ²⁾ 82 83 84	41 27 24 32	119 272 57 101	339 407 352 320	.032 .074 .092 .048	.223 .253 .210 .256	014 034 .011 .013	.098 .136 .116 .124	

Number of newly proven bulls per year (local and foreign)
 NS bulls with more than 15 daughters are included in the publishing of results 1981.

Breed: Br	aunvieh (Brown	Swiss)					
1981 82 83 84	79 55 72 71	242 228 402 515	408 380 465 426	.073 .084 .089 .159	.246 .211 .236 .238	003 012 036 014	.189 .166 .134 .111
Breed: F1	eckvieh (Simmen	ital)	**************************************				
1984	85	848	641	 075	.279	040	.169

Country: Switzerland

App. 2

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

Yea∜ of proof*	f Milk kg	Fat %	Protein %
Breed:	Black and White (Holstein-F	riesian)	
1981 82 83 84	4499 4887 4708 4859	3.68 3.78 3.80 3.79	3.18 3.15 3.18 3.19
*Due to	o the change of the sire Is are not available for com	evaluation meth parison	nod in 1981 (BLUP), previous
Breed:	Braunvieh (Brown Swiss)		
1981 82 83 84	3669 3751 3907 3919	3.94 3.90 3.87 3.87	3.32 3.32 3.32 3.31
Breed:	Fleckvieh (Simmental)		
1981 82 83 84	4221 4377 4379 4455	3.96 3.92 3.95 3.96	3.32 3.31 3.33 3.32