

FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR NON-PRODUCTION TRAITS

COUNTRY: SWITZERLAND

Trait(s):	<u>REPRODUCTION</u> a) Male fertility b) Calving performance <u>MILKABILITY</u> c) Milking speed d) Udder conformation <u>LOCOMOTION</u> e) Feet and legs <u>OTHER</u> f) Other body conformation traits
Breed(s):	Black and White, Swiss Braunvieh
Trait definition and unit(s) of measurement	a) Non-return rate b) Gestation length, birth weight, stillbirths and calving ease c) Milking speed (kg/min), % milk out of fore udder d) 8 descriptive traits for udder and teat e) Hock/bone quality, pastern/heel, set of front and rear legs f) Height at withers, heart girth (cm), body length, depth, width
Method of measuring and collecting data	a) From AI data b) Calving reports c) Official control with full time experts and transportable machine d-f) Special classifiers
Time period for data inclusion	Since 1984
Age groups considered	a,b) Whole population c-f) First lactation cows
Genetic parameters assumed	b) h^2 : Gestation length=0.519-0.577; Birth weight=0.211-0.202; Stillbirths=0.039-0.016; Calving ease=0.088-0.060
Sire categories evaluated	a) All AI sires b-f) All AI test bulls
Environmental effects considered by pre-adjustment	a) Month, parity, AI center c) Lactation stage, milk yield
by evaluation model	b) Parity, sex of calf, season f) Age in months
Base for age adjustment	a-d) Actual population average f) 30 months
Use of genetic groups and/or relationship	No

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Method of evaluation	a,c) Corrected phenotypic deviation b) BLUP SM d-f) Phenotypic index
Expression of proof	a,c) Deviation from population average b) EBV d-f) Index with standardized mean and SD
Genetic (reference) base	a-e) Actual population average
Criteria for official publication of sire proofs	a) 300 first services b) 150 calving c) 20 daughters d-f) 35 daughters
Number of evaluations/publications per year	3
Use in total merit index	a,b) No
Name, address and faxnumber of organization responsible for sire evaluation and publication	a,b,d-f) Schweiz. Verband für künstliche Besamung Postfach Rüttistrasse CH - 3052 ZOLLIKOFEN Tel: 031 911 38 11 Fax:031 911 29 21 c) Fédération suisse d'élevage de la race tachetée noire Grangeneuve, CH - 1725 POSIEUX Tel: 037-42 65 94 Fax: 037-41 04 48
Key references on methodology applied	a) Chavaz, W. Eine neue Auswertungsmethode für die Non-Return-Rate. KB-Mitteilungen 23/2, April 1985 b) Chavaz, W. Zuchtwerte für Abkalbeeigenschaften. Weiterbildungskurs SVIAL 1/2.09.1988 d-f) Chavaz, W. In der Stierenkatalogen: Ein neues Gesicht für die Nachzuchtbeschreibung. KB-Mitteilung 20/3, sept. 1982