FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR NON-PRODUCTION TRAITS

COUNTRY: CANADA	
Trait(s):	REPRODUCTION a) Calving performance (direct and maternal) MILKABILITY b) Milking speed c) Udder conformation LOCOMOTION d) Feet and legs OTHER e) Other body conformation traits
Breed(s):	Holstein, Ayrshire, Brown Swiss, Guernsey, Jersey
Trait definition and unit(s) of measurement	a,b) Traits are subjectively scored from 1 to 5 c-e) There are in total 27 conformation traits, scored on a linear scale in 9 or 18 categories
Method of measuring and collecting data	a,b) Scores are assigned by herdowners during the first six months of lactation c-e) Herds are visited in a 9 to 10-mo cycle by special classifiers (round of classification)
Time period for data inclusion	a,b) All available data c-e) Data since 1982
Age groups considered	a,c-e) All ages b) First lactation only
Genetic parameters assumed	a) h^2 : direct = 0.11; maternal = 0.12. $r_g = -0.27$ b) $h^2 = 0.21$; c-e) $h^2 : 0.10 - 0.42$
Sire categories evaluated	All
Environmental effects considered by pre-adjustment	None
by evaluation model	 a) Sex of calf, parity (first or later) b) Herd*year, calving season, age at calving, stage of lactation c-e) Herd*round*classifier, age at calving, stage of lactation at classification
Base for age adjustment	-
Use of genetic groups and/or relationship	Full relationship and phantom parent groups
Method of evaluation	BLUP AM
Expression of proof	a,b) ETA's (linear scale 1-9)c-e) ETA's, standardized to mean=0 and SD=5
Genetic (reference) base	All cows
Criteria for official publication of sire proofs	10 or more daughters with minimum of 55 % REL
Number of evaluations/ publications per year	a,b) 1 c-e) 2

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COUNTRY: CANADA	
Use in total merit index	Still in research
Name, address and faxnumber of organization responsible for sire evaluation and publication	a,b) Genetic Evaluation Division, Agriculture Canada Sir John Carlings Building, Ottawa, Ontario Canada K1A 0C5 c-e) CGIL Department of Animal Breeding and Genetics University of Guelph Guelph, Ontario, Canada N1G 2W1 Fax: 519 767 0573
Key references on methodology applied	b) Banos, G. & Burnside, E.B. 1992. Genetic evaluation of Canadian dairy bulls for milking speed with an animal model. Can. J. Anim. Sci. 72: 169-172 c-e) Meyer, K. & Burnside, E.B. 1988. Joint sire and cow evaluation for conformation traits using an individual animal model. J. Dairy Sci. 71, 1034-1049.