FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR NON-PRODUCTION TRAITS

COUNTRY: AUSTRALIA	
Trait(s):	REPRODUCTION a) Calving performance MILKABILITY
	b) Milking speed c) Udder conformation LOCOMOTION
	d) Feet and legs OTHER e) Survival
	f) Other body conformation traits g) Temperament
Breed(s):	h) Likeability Holstein-Friesian (a-h)
preed(s).	Jersey (b-h) Illawarra (c,d,f)
Trait definition and unit(s) of measurement	 a) On 3-point scale from easy to hard b,g,h) Scored form 1 to 5 e) % surviving from one year to next c,d,f) In total there are 30 conformation traits scored on a linear scale with 9 or 18 categories
Method of measuring and collecting data	 a) Farmers assessment b,g,h) Scoring by farmers e) From production records c,d,f) Scoring by official classifiers of breed society
Time period for data inclusion	a) Since 1975 b-h) Since 1980
Age groups considered	 a) Second calf and older b-d,f-h) Heifers with maximum age at calving 42 months e) All ages
Genetic parameters assumed	h ² : a) 0.05; b) 0.25; c) 0.17 - 0.33; d) 0.10 - 0.20; e) 0.025; f) 0.17 - 0.45; g) 0.16; h) 0.20
Sire categories evaluated	a,b,e,g,h) AI sires c,d,f) AI sires and registered natural service sires
Environmental effects considered by pre-adjustment	
by evaluation model	a,b,g,h) Herd-Year-Season, age at calvinge) Herd-Year-Seasonc,d,f) Herd-Season-Classifier, age at classification,stage of lactation
Base for age adjustment	-
Use of genetic groups and/or relationship	Relationship matrix with sires and maternal grandsire

FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR NON-PRODUCTION TRAITS **COUNTRY: AUSTRALIA** ST BLUP MGS model Method of evaluation a) Expected % difficult calvings when mated to Expression of proof average mature cows b,g,h) Expected % of satisfactory daughters when mated to average cows e) EBV (%) c,d,f) EBV in units of SD of proof multiplied by 2.5 Fixed, average EBV of sires with proofs in 1990 Genetic (reference) base a) 60 effective daughters in 15 herds Criteria for official publication b,g,h) 25 effective daughters in 15 herd of sire proofs e) 50 effective daughters in 15 herds c,d,f) 15 effective daughters in 5 herds Number of evaluations/ publications per year No official index at present Use in total merit index Australian Dairy Herd Improvement Scheme Name, address and faxnumber of First floor 1601 Malvern Road organization responsible for sire Glen Iris Vic 3146, Australia evaluation and publication Fax: 61-3-8851526

Key references on methodology

applied