

Country

South Africa

Trait category:

Individual trait(s):

Conformation

Udder

Locomotion

Other

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SOUTH AFRICA

Conformation traits	Udder: udder depth, fore udder attachment, rear udder height, suspensory ligament, front teat placement Locomotion: rear legs side, foot angle Other: rump height, body depth, angularity, rump angle, rump width
Breed(s)	Holstein
Trait definition and unit(s) of measuring	All traits are scored on a linear 1-9 point scale, following recommendation of the European and World-wide group for harmonization of linear type classification
Method of measuring and collecting data	Visual appraisal by trained classifiers
Time period for data inclusion	Since 1986
Age groups considered	1 st lactation at an age between 19 and 42 months
Genetic parameters assumed	$h^2_{\text{udder traits}} = 0.08 \text{ to } 0.27$ $h^2_{\text{locomotion traits}} = 0.04 \text{ to } 0.08$ $h^2_{\text{other traits}} = 0.13 \text{ to } 0.56$
Sire categories evaluated	All sires
Environmental effects considered	
by pre-adjustment	None
by evaluation model	Herd, year, season, classifier, sire, error
Base for age adjustment	None
Use of genetic groups and/or relationships	Full relationship matrix
Method (model) of genetic evaluation	MT BLUP AM, between all conformation traits
Evaluation system validation	Compare to Pest results on same data/extensive data quality control
Expression of proof	Predicted breeding value unit 1-9 of scoring scale around mean. SD around population mean
Genetic (reference) base	Rolling base from 1986 to current year
Criteria for official publication of sire proofs	≥ 10 daughters in ≥ 5 herds
Number of evaluations/publications per year	Two; January, July
Use in total merit index	Breeding Value Index: $3 \times \text{type} + 3 \times \text{protein} + 2 \times \text{fat}$ $\text{Type} = 0.6 \times \text{frame traits} + 0.4 \times \text{udder traits}$
Key reference on methodology applied	-