

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	ISRAEL
Breed(s)	Israeli Holstein
Traits evaluated and unit of measurement	Milk, fat and FCM (kg), fat %
Number of lactations	1-3, annual yields
Genetic parameters applied	$h^2=0.16$ for yields Repeatability = 0.5
Inclusion and extension of records	Records <90 days not included Records 91-274 days extended Records >275 days included without extension Records in progress utilized
Sire categories evaluated	All sires
Effects considered by preadjustments	Age and calving month, days open
by model of evaluation	Herd-year-season, sire, group of sires, cow
Base for age adjustment	1st lact: 24 months 2nd lact: 36 months 3rd lact: 48 months
Use of genetic groups/relationships/pedigree	Bulls by year (bi-annual birth groups)
Method of evaluation used	MCC, single trait (Change to BLUP indicated)
Expression of genetic merit	PD (kg)
Genetic base, kind/definition	Fixed, at lactations initiated in 1974 (cows)
Minimum requirements for official publication of sire proofs	Rpt. ≥ 0.50
Use of selection index or total merit index	Index milk + fat of first three lactations
Name and address of organization responsible for sire evaluations and publishing of results	"Evaluation programs:" Animal Genetics and Breeding Unit Volcani Research Center, Bet Dagan "Processing and publishing:" Israeli Cattle Breeders' Assoc. Ltd. 25 Arlozorov St., Tel Aviv 62488, Israel
Key references on methodology applied	J.I. Weller, H.D. Norman and G.R. Wiggans, 1984 Sire evaluations with parities as correlated traits and comparison with single-trait evaluations. J. Dairy Sci. 67:2020-2020.

Country: Israel

App. 1

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

		Predicted differences			
Year of birth of bulls	No. of bulls	Milk kg		Fat kg	
		\bar{x}	S.D.	\bar{x}	S.D.
Breed: Israeli Holstein					
1973	28	43	313	-1.11	8.31
74	24	-61	207	-4.27	4.92
75	49	63	231	-1.74	6.40
76	39	205	262	0.51	7.15
77	38	267	309	2.87	8.51
78	40	266	293	2.46	7.74
79	43	258	253	3.11	7.23
80	29	292	182	3.33	4.35

Country: Israel

App. 2

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

Year of calving	Traits	
	Milk kg	Fat kg
Breed: Israeli Holstein		
1976	7435	229.9
77	7487	232.7
78	7716	241.4
79	7781	244.4
80	7993	256.9
81	8222	261.8
82	8421	269.0
83	8680	276.1