

## FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR PRODUCTION TRAITS

### COUNTRY: ISRAEL

Breed(s)	Israeli Holstein
Trait(s) evaluated and unit(s) of measurement	Milk, fat and protein (kg)
Number of lactations	1-6
Genetic parameters assumed	$h^2 = 0.2$ ; $t = 0.5$
Criteria for inclusion and extension of records	Records < 34 days not included Records 34-274 days extended Records > 275 days included without extension Records in progress utilized
Sire categories evaluated	All sires
Environmental effects considered by pre-adjustment	Age and calving month, DO
by evaluation model	Herd*year*season, parity, group of sires
Base for age adjustment (months)	2 <sup>nd</sup> lactation, 36 months
Use of genetic groups and/or relationships	Bulls by year (bi-annual birth groups)
Method of evaluation	BLUP, repeatability SM
Expression of proof	PD (kg)
Genetic (reference) base	Fixed, first lactations initiated in 1987
Criteria for official publication of sire proofs	Rpt. $\geq 0.60$
Number of evaluations/publications per year	-
Use of production index	$PD_{91} = -0.274(\text{milk}) + 6.41(\text{fat kg}) + 34.85(\text{protein kg})$
Name, address and faxnumber of organization responsible for sire evaluation and publication	<u>Evaluation programs:</u> Animal Genetics and Breeding Unit, Institute of Animal Sciences, Volcani Research Center, P.O.BOX 6, Bet Dagan 50-250 Israel <u>Processing and Publishing:</u> Israeli Cattle Breeders' Assoc. Ltd 25 Arlozorov St. Tel Aviv 62488, Israel
Key references on methodology applied	Ufford, G.R., Henderson, C.R. Keown, J.F. and Van Vleck, L.D. 1979. Accuracy of first lactation versus all lactation sire evaluation by best linear unbiased prediction. J. Dairy Sci. 62, 603.

COUNTRY: ISRAEL											
Number of AI bulls (NB) tested, means (X) and standard deviations (SD) of proofs (kg) from most recent run, by bull's year of birth (YB) and breed											
		Milk		Fat		Protein <sup>1</sup>		Fat %		Protein %	
YB	NB	X	SD	X	SD	X	SD	X	SD	X	SD
Breed:		Israeli Holstein									
1975	34	-678	296	-11.2	7.1						
1976	47	-466	443	-6.3	11.1						
1977	33	-556	309	-9.0	7.9						
1978	34	-481	260	-7.3	5.6						
1979	49	-461	311	-7.2	5.7						
1980	32	-331	355	-5.4	7.1						
1981	34	-315	321	-1.3	6.8	-3.2	5.7				
1982	60	-212	330	-1.0	9.5	-4.0	6.8				
1983	49	71	332	0.0	7.5	-1.3	6.7				
1984	39	-90	291	-6.0	9.2	-2.5	6.7				
1985	39	-92	311	0.0	9.7	-2.6	7.5				
1986	39	66	292	1.6	9.7	1.4	7.3				
1987	38	117	312	2.9	9.1	4.3	6.7				

<sup>1</sup> Protein was computed on a subset of the data

COUNTRY: ISRAEL					
Average of adjusted production records (kg) included in the most recent evaluation run, by daughters' year of calving (YC) and breed					
YC	Milk	Fat	Protein <sup>1</sup>	Fat %	Protein %
Breed:	Israeli Holstein				
1980	8178	262			
1981	8422	267			
1982	8621	275			
1983	8893	284			
1984	8815	280			
1985	8859	282	282		
1986	8915	274	282		
1987	8902	278	284		
1988	8961	284	289		
1989	9467	301	290		
1990	9494	300	289		
1991	9739 <sup>2</sup>	297	291		

<sup>1</sup> Protein was computed on a subset of the data

<sup>2</sup> M.E.