

**FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR
PRODUCTION TRAITS**

COUNTRY: JAPAN

Breed(s)	Holstein Friesian
Trait(s) evaluated and unit(s) of measurement	Milk (kg), fat, protein, SNF (kg, %)
Number of lactations	1
Genetic parameters assumed	h^2 : milk = 0.31; fat(kg) = 0.29; protein,SNF(kg) = 0.30; fat(%) = 0.69; protein,SNF(%) = 0.73
Criteria for inclusion and extension of records	Oldest data from 1974. Natural-terminated records between 240-305 days are included as they are but records longer than 305 days are cut at the 305 day. Records in progress and of culled cows having at least 5 official recordings are included after extending to 305 days.
Sire categories evaluated	All sires. (practically no NS)
Environmental effects considered by pre-adjustment	-
by evaluation model	Herd*year, calving age, region*calving month
Base for age adjustment (months)	26 months
Use of genetic groups and/or relationships	Bull groups by birth year/Relationship matrix used with sires and MGS
Method of evaluation	ST BLUP MGS model
Expression of proof	EBV (kg, %)
Genetic (reference) base	Rolling, average EBV of bulls born 11 years before the year of evaluation.
Criteria for official publication of sire proofs	15 daughters in 5 herds
Number of evaluations/publications per year	2/2
Use of production index	Economic Effect Index in yen, based on EBV for milk, fat and SNF yield
Name, address and faxnumber of organization responsible for sire evaluation and publication	Livestock Improvement Association of Japan Tani Bldg.,1-28-6, Kameido, Koto-ku Tokyo, 136 Japan Fax: 03-3682-7369
Key references on methodology applied	Working group on Sire Evaluation with BLUP, 1989. Study on BLUP procedures for Dairy Sire Evaluation (in Jap.), published by the Livestock Improvement Association of Japan. Takeo Abe, 1991. Progeny testing of Dairy Bulls in Japan (mimeo in Engl.)

COUNTRY: JAPAN											
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		Fat %		Protein %	
YB	NB	X	SD	X	SD	X	SD	X	SD	X	SD
Breed:		Holstein Friesian									
1975	62	-62	450	-0.8	16.8	-7.0	11.9	0.05	0.30	-0.02	0.16
1976	69	-15	543	2.0	18.1	-3.2	13.1	0.06	0.24	0.03	0.14
1977	85	97	573	8.1	22.1	-0.6	14.5	0.08	0.27	0.01	0.15
1978	86	98	522	5.4	19.8	-3.2	13.6	0.03	0.24	-0.14	0.14
1979	97	306	632	15.0	23.7	4.1	13.5	0.07	0.25	-0.02	0.14
1980	97	353	558	13.5	20.7	5.8	15.1	0.02	0.25	-0.04	0.12
1981	93	392	573	15.7	22.5	6.4	16.2	0.04	0.30	-0.01	0.14
1982	90	254	494	13.1	17.6	2.4	13.7	0.07	0.28	-0.00	0.15
1983	84	379	504	15.5	17.3	4.8	14.3	0.03	0.26	-0.02	0.13
1984	95	470	587	22.5	20.8	7.6	15.9	0.10	0.28	-0.01	0.16
1985	91	741	556	28.9	18.6	12.1	15.0	0.04	0.31	-0.09	0.15
1986	31	880	473	37.6	18.0	23.4	14.8	0.11	0.25	0.03	0.13

COUNTRY: JAPAN					
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	Fat %	Protein %
Breed:	Holstein Friesian				
1986	5247	228	190	3.67	3.05
1987	5258	230	193	3.69	3.09
1988	5426	237	201	3.72	3.14
1989	5578	244	207	3.72	3.15
1990	5537	244	208	3.75	3.19
1991	5745	247	229	3.69	3.42