

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	JAPAN																
Breed(s)	Holstein-Friesian																
Traits evaluated and units of measurement	Milk yield (kg), fat %, SNF %																
Number of lactations	1																
Genetic parameters applied	<table><tr><td></td><td>Milk</td><td>fat %</td><td>SNF %</td></tr><tr><td>Milk</td><td><u>0.30</u></td><td>-0.24</td><td>-0.08</td></tr><tr><td>fat %</td><td><u>-0.34</u></td><td><u>0.60</u></td><td>0.67</td></tr><tr><td>SNF%</td><td>-0.18</td><td><u>0.64</u></td><td><u>0.50</u></td></tr></table> <p>Figures underlined are heritabilities. Upper-right are phenotypic correlations. Lower-left are genetic correlations</p>		Milk	fat %	SNF %	Milk	<u>0.30</u>	-0.24	-0.08	fat %	<u>-0.34</u>	<u>0.60</u>	0.67	SNF%	-0.18	<u>0.64</u>	<u>0.50</u>
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Inclusion and extension of records	Records <240 days not used. All records extended to 305 days. If milk yield falls below 2.5 in-trastation standard deviation from the mean, records are excluded																
Sire categories evaluated	Government-owned bulls for AI use																
Effects considered																	
by preadjustments	None, because age of all cows (daughters) and date of their calving are controlled so as to fall w/n about three months																
by model of evaluation	Station, sire																
Base for age adjustment	None																
Use of genetic groups/relationships/pedigree	None																
Method of evaluation used	Least squares estimates																
Expression of genetic merit	BV (kg, %)																
Genetic base, kind/definition	Rolling. Average BV of bulls progeny-tested each year																
Minimum requirements for official publication of sire proofs	Rpt. <u>≥</u> 0.55																
Use of selection index or total merit index	The three production traits are included in a selection index																
Name and address of organization responsible for sire evaluations and publishing of results	Livestock Improvement Association of Japan, Inc. 4-9-2, Ginza, Chuoku, Tokyo 104 Japan																
Key references on methodology applied	Takeo Abe and Kunio Yokouchi. Bul. Nat. Inst. Anim. Ind., No. 34, 1978. (Japanese). Summary given at IDF-symposium, Prague 1984.																

Country: Japan

App. 1

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

		Breeding value					
Year of proof	No. of bulls	Milk Kg		Fat %		SNF %	
		\bar{x}	S.D.	\bar{x}	S.D.	\bar{x}	S.D.
Breed: Holstein-Friesian							
1974	8	-9.4	341.0	0.00	0.0707	0.00	0.0828
75	8	15.1	262.6	0.01	0.0707	0.01	0.1105
76	17	7.8	268.6	0.00	0.1578	0.03	0.1500
77	57	6.6	382.0	0.00	0.1901	0.00	0.2018
78	46	7.7	338.1	0.00	0.2288	0.00	0.2002
79	49	1.1	305.1	0.00	0.2127	0.00	0.2128
80	46	4.9	329.2	0.00	0.2819	0.00	0.2135
81	48	-2.9	400.3	0.00	0.2241	0.00	0.2062
82	53	-2.1	491.6	0.02	0.2592	-0.02	0.2041
83	51	-1.6	392.2	0.00	0.2265	0.00	0.2244
84	57	2.1	406.0	0.00	0.2365	0.00	0.1649

Country: Japan

App. 2

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

Year of production	Traits		
	Milk kg	Fat %	SNF %
Breed: Holstein-Friesian			
1974	5008	3.70	8.51
75	5689	3.60	8.48
76	6128	3.42	8.40
77	5963	3.47	8.48
78	6079	3.50	8.52
79	6262	3.43	8.49
80	6309	3.56	8.66
81	6411	3.50	8.63
82	6522	3.50	8.62
83	6671	3.53	8.54
84	6803	3.53	8.61