

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	JAPAN												
Breed(s)	Holstein-Friesian												
Traits evaluated and units of measurement	Milk (kg), fat and SNF %												
Number of lactations	1												
Genetic parameters applied	<table style="margin-left: auto; margin-right: auto;"> <tr> <td>Milk</td> <td><u>0.30</u></td> <td>-0.24</td> <td>-0.08</td> </tr> <tr> <td>fat %</td> <td>-0.34</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>	Milk	<u>0.30</u>	-0.24	-0.08	fat %	-0.34	<u>0.60</u>	0.67	SNF %	-0.18	<u>0.64</u>	<u>0.50</u>
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fat %	-0.34	<u>0.60</u>	0.67										
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	Figures underlined are heritabilities. Upper-right are phenotypic correlations. Lower-left are genetic correlations.												
Inclusion and extension of records	Records <240 days not used. All records extended to 305 days. If milk yield falls below 2.5 intra-station standard deviation units 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 within about three months												
by model of evaluation	Station, sire												
Base for age adjustment	M.E.												
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>&gt;0.55</u>												
Use of selection index or total merit index	The three production traits are included in a selection index												
Name and address or 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      T.Abe and K.Yokouchi. Bul. Nat.  
Inst. Anim. Ind., No. 34, 1978. (Japanese).  
T.Abe and S.Matsumoto. 1984. Progeny  
testing of dairy bulls in Japan.  
IDF/EAAP Symp. on progeny testing  
methods in dairy cattle. Prague, Sept.  
14-16. IDF Doc. 183, 94-102.

## App.1

Country: Japan

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

Year of birth	No. of bulls	Breeding values					
		Milk kg		Fat %		SNF %	
		$\bar{x}$	S.D.	$\bar{x}$	S.D.	$\bar{x}$	S.D.
<b>Breed: Holstein-Friesian</b>							
1974	8	-9.4	341.0	0.00	0.07	0.00	0.08
75	8	15.1	262.6	0.01	0.07	0.01	0.11
76	17	7.8	268.6	0.00	0.16	0.03	0.15
77	57	6.6	382.0	0.00	0.19	0.00	0.20
78	46	7.7	338.1	0.00	0.23	0.00	0.20
79	49	1.1	350.1	0.00	0.21	0.00	0.21
80	46	4.9	329.2	0.00	0.28	0.00	0.21
81	48	-2.9	400.3	0.00	0.22	0.00	0.21
82	53	-2.1	491.6	0.02	0.26	-0.02	0.20
83	51	-1.6	392.2	0.00	0.23	0.00	0.22
84	57	2.1	406.0	0.00	0.24	0.00	0.16
85	58	4.9	412.8	0.00	0.22	0.00	0.22
86	53	-0.4	609.7	0.00	0.20	0.00	0.22
87	53	0.0	726.3	0.00	0.20	0.00	0.21

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 %
<b>Breed: Holstein-Friesian</b>			
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
85	7091	3.53	8.59
86	7267	3.51	8.68
87	7416	3.49	8.72