

COUNTRY'S NAME	JAPAN
Production traits	Milk, fat, and protein
Breed	Holstein Friesian
Trait definition and unit of measurement	Milk (kg), fat, protein, SNF (kg, %)
Criteria for inclusion & extension of records	The records with non-identified sires are not included. Naturally terminated records between 240-305 days are included as they are but records longer than 305 days are cut at 305 day. Records in progress and of culled cows having at least 5 official recordings are included and extended to 305 days.
Time period for data inclusion	Calving since 1974. For pedigree purposes at least two generations of dam information and all available sire information are used.
Sire categories	All sires are AI bulls. ET produced =52%, imported semen =14% (not considered as official proof).
Number of lactations included in the evaluation	First five (first lactation data required in order for any lactation to contribute to sire evaluation). No weights are involved.
Environmental effects: Pre-adjustment	Age at calving*Parity, times milked per day Updated February, 1996
Base for age pre-adjustment	26 months
Method (model) of genetic evaluation	ST – R – BLUP – AM
Environmental effects in the genetic evaluation model	Herd * Year * Parity (discontinuous, fixed), calving month * region * year (discontinuous, fixed, 24 levels), Permanent environment effect (continuous, random)
Use of genetic groups	Unknown parents grouped by sex, country of origin (three groups) and year
Genetic parameters in the evaluation	$h^2 = 0.30$, $t = 0.52$
System validation	Only official milk records are used. Extensive checks on input data. Correlation between previous evaluation and genetic trends are checked. Genetic trend checks by INTERBULL methods I and III.
Expression of genetic evaluations	EBV (kg, %)
Genetic (reference) base	5-year stepwise, average EBV of cows born in 1995
Next base change	February/2005
Criteria for official publication of evaluations	≥15 daughters in ≥5 herds. Recognized bulls by the national dairy sire progeny test program only. Imported semen proofs are published, however, treated as unofficial.
Number of evaluations / publications per year	2/2, February, August
Use in production / total merit index	NTP: Nippon Total Profit Index $NTP = \{ 3 * PC / 114 + 1 * (UC + EBV_{final\ score} + EBV_{feet\ and\ legs}) / 1.144 \} * 100$ $PC(Production\ Composite) = -0.07 * EBV_{milk\ yield} + 1 * EBV_{fat\ yield} + 8 * EBV_{protein\ yield}$ $UC(Udder\ Composite) = 0.22 * EBV_{fore\ udder\ attachment} + 0.14 * EBV_{rear\ udder\ height} + 0.05 * EBV_{rear\ udder\ width} + 0.16 * EBV_{udder\ cleft} + 0.35 * EBV_{udder\ depth} + 0.08 * EBV_{teat\ placement}$
Anticipated changes in the near future	-
Key reference on methodology applied	The national committee for genetic evaluation of dairy cattle. 1996. Study on changes of genetic evaluation in Holstein Friesian(in Jpn.), published by National Livestock Breeding Center Suzuki M. and Van Vleck L.D. 1994, Heritability and repeatability for milk production traits of Japanese Holsteins from an animal model. J. Dairy Sci., 77:583-588. Ikeuchi Y. 1996. Recent developments in the progeny testing for dairy bulls in Japan, published by Livestock Improvement Association of Japan, Inc
Key organization: name, address, phone, fax, e-mail, web site	Member organization: Livestock Improvement Association of Japan, Inc Ohno-building, 1-19-8, Kyobashi, Chuo-ku, Tokyo, 104-0031, JAPAN Tel: +81-3-3561-8561 Fax: +81-3-3561-8165 Web: http://liaj.lin.go.jp E-mail: webmaster@liaj.or.jp

National evaluation center:
National Livestock Breeding Center
Ministry of Agriculture, Forestry and Fisheries
1 Odakurahara, Nishigo, Nishi-Shirakawa, Fukushima, 961-8511, JAPAN
Tel: +81-248-25-4904 Fax: +81-248-25-3982
Web: <http://www.nlbc.go.jp>
Contact: Manager of data analysis div. : t0yoshiz@nlbc.go.jp

COUNTRY: Japan											
Number of AI bulls (NB) tested, means (X), and standard deviations (SD) of proofs (kg, %) from most recent run, by bulls' year of birth (YB) and breed.											
YB	NB	Milk		Fat		Protein		Fat %		Protein %	
		X	SD	X	SD	X	SD	X	SD	X	SD
Breed Holstein Friesian											
1983	69	-210	468	-15	18	-10	13	-0.10	0.24	-0.04	0.10
1984	89	-115	578	-9	21	-7	16	-0.06	0.24	-0.05	0.14
1985	102	154	573	-1	21	-1	16	-0.08	0.28	-0.08	0.13
1986	133	353	488	13	22	9	15	-0.01	0.25	-0.03	0.12
1987	118	317	477	14	19	10	14	0.03	0.24	0.00	0.12
1988	176	488	436	24	19	15	13	0.07	0.22	-0.01	0.10
1989	179	624	440	26	16	18	12	0.04	0.22	-0.02	0.10
1990	148	762	436	33	16	24	12	0.06	0.22	-0.01	0.11
1991	174	820	435	35	15	28	13	0.05	0.21	0.02	0.09
1992	169	885	424	37	14	29	12	0.05	0.20	0.01	0.08
1993	123	901	433	38	16	29	12	0.06	0.23	0.00	0.08

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 %		
	X	SD	X	SD	X	SD	X	SD	X	SD	
Breed Holstein Friesian											
1988	6,334		233		198		3.69		3.12		
1989	6,463		238		203		3.70		3.14		
1990	6,460		238		202		3.70		3.13		
1991	6,613		248		210		3.77		3.18		
1992	6,769		257		215		3.82		3.19		
1993	6,847		261		217		3.83		3.18		
1994	6,916		262		221		3.82		3.20		
1995	7,101		271		228		3.84		3.22		
1996	7,167		274		230		3.85		3.22		
1997	7,203		277		232		3.88		3.23		
1998	7,300		280		235		3.86		3.23		