

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

COUNTRY: FRANCE

Breed(s)	<i>[I]</i> Prim'Holstein, Montbéliarde, Normande <i>[II]</i> Simmentale Française, Brune, Pie Rouge des Plaines, Abondance, Tarentaise
Trait(s) evaluated and unit(s) of measurement	Milk, Fat and T.Pr (kg,‰)
Number of lactations	1-3
Genetic parameters assumed	h^2 : yield=0.30; content=0.50
Criteria for inclusion and extension of records	All records used with different weighing according to lactation length for records in progress
Sire categories evaluated	All sires
Environmental effects considered by pre-adjustment	Number and length of lactation
by evaluation model	Herd*year; region*year*parity; age at 1st calving or preceding calving interval within year, parity and region; month of calving within year, parity and region; PE
Base for age adjustment (months)	ME
Use of genetic groups and/or relationship	All pedigree information included
Method of evaluation	ST BLUP repeatability AM
Expression of proof	EBV (kg,‰,point)
Genetic (reference) base	Rolling, average sire EBV for AI bulls, progeny tested in France with: <i>[I]</i> Rpt \geq 0.7 and born from (n-10) to (n-7) years <i>[II]</i> Rpt \geq 0.5 and born from (n-12) to (n-7) years
Criteria for official publication of sire proofs	<i>[I]</i> Rpt \geq 0.7 <i>[II]</i> Rpt \geq 0.5
Number of evaluations/publications per year	4
Use of production index	For all breeds an index (INEL): $1*Fat(kg)+2*T.Pr(kg)+6*T.Pr(‰)$

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Name, address and faxnumber of organization responsible for sire evaluation and publication

Computing:

INRA
Station de Génétique Quantitative et Appliquée, CRJ,
Domaine de Vilvert
F78352 JOUY en JOSAS CEDEX
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Publishing:

INSTITUT DE L'ELEVAGE
Département Amélioration Génétique
149, rue de Bercy
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Key references on methodology applied

Bonaiti et al. 1990. La méthode française d'évaluation génétique des reproducteurs laitiers. INRA Prod. Anim. 3 (2) 83-92.

COUNTRY: FRANCE

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		T.Protein		Fat %		T.Protein %	
YB	NB	X	SD	X	SD	X	SD	X	SD	X	SD
Breed:		Prim'Holstein									
1975	345	-997	675	-40	22	-27	17	-0.3	2.5	0.5	1.3
1976	347	-829	690	-36	23	-23	18	-0.6	2.7	-0.3	1.4
1977	363	-715	652	-30	24	-20	17	-0.4	2.7	0.3	1.3
1978	456	-450	690	-22	22	-14	18	-0.8	2.9	0.0	1.3
1979	495	-404	624	-18	22	-11	16	-0.4	2.9	0.2	1.3
1980	433	-473	619	-22	23	-13	16	-0.6	3.0	0.1	1.3
1981	575	-245	614	-12	23	-7	17	-0.4	3.2	0.0	1.3
1982	733	-112	625	-6	24	-3	18	-0.3	3.1	0.0	1.3
1983	721	52	638	1	23	0	17	-0.1	3.2	-0.2	1.4
1984	333	-31	556	3	22	0	14	0.7	3.1	0.2	1.3
1985	531	100	616	5	23	4	16	0.2	3.0	0.1	1.3
1986	499	268	623	12	23	10	16	0.3	3.2	0.2	1.4
Breed:		Normande									
1975	146	-523	402	-26	18	-17	13	-0.9	2.5	0.1	1.2
1976	149	-488	471	-24	21	-16	15	-0.7	2.4	0.1	1.3
1977	161	-322	448	-19	17	-11	13	-1.1	2.3	0.0	1.2
1978	159	-282	434	-17	19	-10	14	-1.0	2.1	-0.2	1.2
1979	142	-233	421	-16	18	-9	13	-1.3	2.3	-0.3	1.3
1980	152	-258	464	-17	19	-10	15	-1.2	2.1	-0.2	1.3

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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		T.Protein		Fat % _o		T.Protein % _o	
YB	NB	X	SD	X	SD	X	SD	X	SD	X	SD
1981	144	-155	434	-10	19	-6	13	-0.6	2.7	-0.2	1.3
1982	139	-226	469	-8	20	-6	14	0.3	2.8	0.2	1.3
1983	133	-11	468	-0	19	-1	14	-0.0	2.4	-0.1	1.2
1984	137	117	503	6	21	3	17	0.3	2.3	-0.1	1.4
1985	128	140	498	2	19	4	16	-0.7	2.2	-0.1	1.3
1986	96	214	477	6	20	8	14	-0.4	2.2	0.1	1.4
Breed:		Montbéliarde									
1975	67	-654	434	-26	19	-19	12	-0.3	2.0	0.3	1.3
1976	64	-392	515	-19	20	-12	14	-0.7	2.2	0.0	1.3
1977	83	-401	519	-17	22	-12	15	-0.2	2.2	0.0	1.3
1978	87	-298	504	-14	22	-8	15	-0.5	2.0	0.3	1.2
1979	83	-318	487	-19	20	-10	15	-1.2	1.9	0.0	1.2
1980	95	-272	481	-11	22	-6	15	-0.1	2.2	0.4	1.2
1981	85	-300	518	-11	18	-7	15	-0.0	1.9	0.5	1.3
1982	110	-84	421	-2	17	-1	13	0.1	1.9	0.2	1.2
1983	115	-91	542	-6	22	-4	17	-0.4	2.0	-0.1	1.4
1984	95	56	621	4	22	1	19	0.3	2.1	-0.1	1.3
1985	119	133	622	6	23	5	18	0.1	2.0	0.1	1.3
1986	95	304	618	12	23	11	18	0.2	2.1	0.2	1.2

COUNTRY: FRANCE					
Average of first lactation production records (kg) included in the most recent evaluation run, by daughters' year of calving (YC) and breed					
YC	Milk	Fat	T.Protein	Fat % _o	T.Protein % _o
Breed:	Prim'Holstein				
1980	4414	171	143	3.88	3.24
1981	4484	173	144	3.86	3.22
1982	4608	176	148	3.83	3.22
1983	4743	183	153	3.86	3.22
1984	4789	185	154	3.86	3.21
1985	4947	191	159	3.87	3.21
1986	5053	197	162	3.91	3.21
1987	5171	203	165	3.93	3.20
1988	5380	210	172	3.90	3.19
1989	5666	222	181	3.93	3.19
1990	5939	235	193	3.97	3.24
1991	6039	243	196	4.02	3.25

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Average of first lactation production records (kg) included in the most recent evaluation run, by daughters' year of calving (YC) and breed

YC	Milk	Fat	T.Protein	Fat % _o	T.Protein % _o
Breed:	Normande				
1980	3693	155	129	4.19	3.51
1981	3691	153	127	4.16	3.46
1982	3745	153	129	4.11	3.45
1983	3843	159	133	4.16	3.46
1984	3874	161	134	4.16	3.46
1985	3982	165	137	4.16	3.45
1986	4008	168	139	4.19	3.47
1987	4117	172	141	4.18	3.43
1988	4242	175	145	4.14	3.44
1989	4429	183	151	4.13	3.42
1990	4540	190	158	4.19	3.48
1991	4557	194	159	4.26	3.49
Breed:	Montbéliarde				
1980	4030	149	135	3.71	3.36
1981	4044	149	135	3.68	3.35
1982	4157	153	139	3.68	3.35
1983	4136	153	138	3.72	3.35
1984	4099	154	138	3.76	3.37
1985	4316	161	145	3.73	3.37
1986	4399	165	147	3.76	3.35
1987	4518	170	152	3.76	3.36
1988	4536	170	151	3.75	3.33
1989	4666	175	156	3.76	3.36
1990	4850	185	164	3.81	3.39
1991	4864	186	164	3.83	3.37