

FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

COUNTRY	FRANCE
Breed(s)	Francaise Frisonne (Black and White), Montbéliarde, Normande, Pie Rouge de l'Est, Brune, Pie Rouge des Plaines, Abondance, Tarentaise
Traits evaluated and units of measurement	Milk, $\frac{\text{Fat} + 1.21 \text{ T.P.}}{2} \text{ (kg)}, \frac{\text{Fat} + 1.21 \text{ T.P.}}{2} \text{ ‰ (g/kg)}$ T.P. (true protein)=0.95 · crude protein
Number of lactations	1-3 with ind. weightings
Genetic parameters applied	$h^2 = 0.25$ for yields; 0.45 for ‰
Inclusion and extension of records	All records used with diff. weightings according to lact. length. For records in progress: actual lactation yields adjusted to 305 days
Sire categories evaluated	All sires
Effects considered by preadjustments	Lact., age at 1st calving or calving interval (CI), dry period, cow-index of mates
by model of evaluation	Region x year x lact., herd, month of calving, age at first calving or preceeding CI, present CI, herd-level-class, cow, dam, sire, group of sires.
Base for age adjustment	30 months
Use of genetic groups/relationships/pedigree	Sire group by year and pedigree (sire and maternal grandsire
Method of evaluation used	MCC
Expression of genetic merit	BV (kg, ‰)
Genetic base, kind/definition	Rolling, average sire BV of cows for bulls whose first daughters calved during the previous 4 years and having ≥ 6 daughters
Minimum requirements for official publication of sire proofs	Rpt. ≥ 0.70

Use of selection index
or total merit index

Total merit index used for Francaise Frisonne
including fat and protein yields and contents,
type and milking speed expressed as RBV with
S.D.=20

Name and address of organiza-
tion responsible for sire
evaluations and publishing
of results

"Computing"

INRA: Institut National de la Recherche
Agronomique
Station de Génétique Quantitative
et Appliquée
CRJ, Domaine de Vilvert
F-78350 Jouy en Josas, France

"Publishing"

ITEB: Institut Technique de L'Elevage Bovin
Département Amélioration Génétique
149, rue de Bercy
F-75595 Paris Cedex 12, France

Key references on methodo-
logy applied

POUTOUS et al. 1981. Méthode de calcul des
index laitiers, BTI n° 361, Ministère de
l'Agriculture
BONAITI, MOCQUOT, POUTOUS 1984.
Dairy sire evaluation in France. IDF/EAAP
Symp. on progeny testing methods in dairy
cattle, Prague, Sept. 14-16. IDF Doc. 183,
80-89.

Country: France

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

		Breeding values ¹					
Year of birth	No. of bulls	Milk (kg)		Fat+1.21 T.P. (kg)		Fat+1.21 T.P. (‰)	
		$\bar{x}$	S.D.	2		2	
				$\bar{x}$	S.D.	$\bar{x}$	S.D.
Breed: Francaise Frisonne							
1971	303	-1078		-39		0.2	
72	331	-851		-33		-0.2	
73	368	-825		-31		-0.1	
74	332	-670		-24		0.0	
75	356	-688	736	-24	23	0.1	1.9
76	354	-547	726	-21	22	-0.1	2.0
77	371	-405	690	-15	24	0.0	2.0
78	458	-75	719	-5	21	-0.3	2.1
79	505	-24	636	-1	19	0	2.1
80	426	-87	628	-3	20	0	2.0
81	521	153	610	6	20	0	1.9
82 ²	332	287	563	12	19	0.1	1.8
Breed: Normande							
1971	159	-652		-24		0.3	
72	171	-574		-20		0.5	
73	175	-526		-18		0.5	
74	183	-379		-13		0.2	
75	147	-315	437	-11	17	0.1	1.9
76	149	-258	475	-8	17	0.1	1.7
77	161	-99	457	-3	16	-0.1	1.6
78	159	-55	447	-1	17	-0.1	1.5
79	143	-13	449	-1	16	-0.3	1.6
80	153	-45	466	-1	18	-0.1	1.6
81	141	99	410	5	15	0.0	1.7
82 ²	42	30	380	7	13	0.9	1.8
Breed: Montbéliarde							
1971	67	-417		-16		-0.3	
72	76	-463		-15		0.2	
73	78	-227		-7		0.1	
74	72	-267		-9		0.0	
75	70	-375	453	-13	15	-0.1	1.5
76	65	-137	534	-7	18	-0.5	1.6
77	83	-134	496	-5	17	-0.3	1.6
78	89	-14	540	0	20	-0.1	1.4
79	85	-32	558	-4	21	-0.6	1.4
80	95	9	534	2	21	0.2	1.6
81	82	-17	544	2	18	0.4	1.4
82 ²	41	120	414	5	14	0.0	1.3

¹On 1988 rolling base²Incomplete

Country: France

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

Year of production	Traits					
	Milk (kg)	Lactation length	Fat (kg)	Fat %	C. Protein* (kg)	C. Protein* %
Breed: Française Frisonne						
1976	3747	290	143	3.83	120	3.21
77	3863	295	147	3.82	123	3.20
78	3990	295	154	3.87	128	3.22
79	4195	297	163	3.88	136	3.24
80	4414	298	171	3.88	143	3.24
81	4484	297	173	3.86	144	3.22
82	4608	299	176	3.83	148	3.22
83	4743	299	183	3.86	153	3.22
84	4789	293	185	3.86	154	3.21
85	4947	297	191	3.87	159	3.21
86	5053	291	197	3.91	162	3.21
87	5171	291	203	3.93	165	3.20
Breed: Normande						
1976	3064	274	126	4.13	107	3.49
77	3218	282	133	4.13	110	3.49
78	3335	282	139	4.19	117	3.49
79	3510	284	148	4.22	123	3.52
80	3693	285	155	4.19	129	3.51
81	3691	282	153	4.16	127	3.46
82	3745	285	153	4.11	129	3.45
83	3843	285	159	4.16	133	3.46
84	3874	278	161	4.16	134	3.46
85	3982	283	165	4.16	137	3.45
86	4008	276	168	4.19	139	3.47
87	4117	280	172	4.18	141	3.43
Breed: Montbéliarde						
1976	3595	284	132	3.67	120	3.32
77	3664	285	135	3.69	122	3.34
78	3608	286	134	3.71	121	3.36
79	3895	287	145	3.72	132	3.38
80	4030	286	149	3.71	135	3.36
81	4044	287	149	3.68	135	3.35
82	4157	288	153	3.68	139	3.35
83	4136	286	153	3.72	138	3.35
84	4099	282	154	3.76	138	3.37
85	4316	285	161	3.73	145	3.37
86	4399	282	165	3.76	147	3.35
87	4518	282	170	3.76	152	3.36

*C. Protein= crude protein