

FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR PRODUCTION TRAITS

COUNTRY: BELGIUM

Breed(s)	[I] Black and White [III] Red and White (MRY), Flanders' White and Red, Flanders' Red
Trait(s) evaluated and unit(s) of measurement	Milk (kg), fat and protein (kg, %)
Number of lactations	First lactation
Genetic parameters assumed	$h^2 = 0.25$
Criteria for inclusion and extension of records	Records in progress and culled ones are used provided 100 days of lactation (>100 days, < 36 month of age). Extension = cumulative production + single regression of remaining yield on last known test-day yield.
Sire categories evaluated	AI sires.
Environmental effects considered by pre-adjustment	None
by evaluation model	Region*herd*year*season, age and calving interval.
Base for age adjustment (months)	None
Use of genetic groups and/or relationships	Genetic groups, grouping by HF %
Method of evaluation	ST BLUP SM
Expression of proof	EBV for all traits
Genetic (reference) base	[I] Average of EBV of bulls in genetic group 4 ($\geq 75\%$ HF) with a proof in the jan. '91 evaluation. [III] Average of EBV of bulls (<75% HF)
Criteria for official publication of sire proofs	Rpt ≥ 0.50 if sampled in Belgium or in case of converted proofs; if not sampled in Belgium, Belgian proof replaces converted proofs with Rpt ≥ 0.85
Number of evaluations/publications per year	2 (January, July)
Use of production index	Net economic merit index including EBV for milk, fat % and protein %
Name, address and faxnumber of organization responsible for sire evaluation and publication	Genetic Committee Ministry of Agriculture Manhattan Office Tower Bolwerk Laan, 21 6 th Floor B-1210 Brussels, Belgium. Fax: 32-2-211 73 38
Key references on methodology applied	Stier Index, Index des Taureaux VRV B-9860 Oosterzele 1992/1

COUNTRY: BELGIUM											
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		Protein		Fat %		Protein %	
YB	NB	X	SD	X	SD	X	SD	X	SD	X	SD
Breed:		Black and White									
79-80	42	-523	254	-19	22	-14	14	0.03	0.25	0.06	0.12
81-82	58	-322	218	-7	22	-7	14	0.12	0.28	0.07	0.13
83-84	60	118	364	8	20	4	15	0.06	0.28	0.01	0.13
85-86	49	339	253	12	19	10	15	-0.02	0.32	-0.00	0.13
Breed:		Red and White (MRV)									
79-80	29	5	427	-2	18	0	11	-0.06	0.18	0.00	0.11
81-82	41	198	376	9	16	7	11	0.03	0.16	0.00	0.12
83-84	57	407	189	20	29	14	19	0.07	0.27	0.00	0.15
85-86	41	580	394	28	27	18	16	0.09	0.23	-0.02	0.10
Breed:		Flanders' White and Red									
79-80	53	-9	257	2	21	0	13	0.05	0.27	0.00	0.11
81-82	52	60	252	2	23	1	14	-0.01	0.25	-0.03	0.12
83-84	61	302	184	15	33	9	21	0.05	0.27	-0.02	0.13
85-86	45	476	385	21	33	14	22	0.03	0.24	-0.03	0.13
Breed:		Flanders' Red									
79-80	36	156	265	6	13	4	8	0.00	0.25	-0.03	0.09
81-82	39	159	425	9	21	4	11	0.07	0.25	-0.03	0.12
83-84	35	161	451	9	30	4	17	0.07	0.24	-0.03	0.13
85-86	17	565	392	25	30	16	18	0.06	0.16	-0.06	0.13

COUNTRY: BELGIUM					
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 %
Breed:	Black and White				
1980	4508	181	147	4.02	3.27
1981	4548	182	147	4.01	3.24
1982	4606	186	149	4.04	3.23
1983	4639	188	150	4.06	3.24
1984	4705	192	153	4.08	3.24
1985	5112	212	167	4.14	3.27
1986	5295	222	172	4.20	3.25
1987	5378	227	174	4.23	3.24
1988	5543	237	180	4.29	3.26
1989	5748	250	190	4.36	3.30

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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 %
Breed:	Red and White (MRY)				
1980	4226	167	143	3.97	3.39
1981	4203	165	141	3.93	3.36
1982	4229	167	142	3.96	3.37
1983	4198	168	140	4.00	3.34
1984	4192	168	138	4.00	3.31
1985	4581	185	154	4.05	3.37
1986	4749	194	160	4.09	3.37
1987	4821	196	161	4.08	3.34
1988	4963	206	166	4.15	3.36
1989	5168	219	174	4.24	3.37
Breed:	Flanders' White and Red				
1980	4106	158	134	3.85	3.28
1981	4088	154	132	3.79	3.24
1982	4079	158	132	3.87	3.26
1983	4050	156	131	3.85	3.23
1984	4002	154	129	3.85	3.24
1985	4255	167	139	3.94	3.28
1986	4338	172	142	3.97	3.28
1987	4311	170	140	3.95	3.26
1988	4425	176	144	3.99	3.27
1989	4546	186	150	4.10	3.31
Breed:	Flanders' Red				
1981	3873	151	132	3.90	3.43
1982	3850	151	129	3.92	3.36
1983	3915	154	131	3.94	3.37
1984	4019	160	135	3.97	3.36
1985	4286	174	144	4.06	3.37
1986	4436	182	148	4.11	3.34
1987	4360	179	145	4.11	3.34
1988	4542	187	150	4.12	3.31
1989	4572	192	152	4.19	3.34