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 Conversion Factors For Production Traits. Source: INTERBULL 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	349.40	1.2560	5.000	1.6560	7.700	1.3630	0.5041
JER	CHE	-36.59	1.6459	20.629	1.4690	6.587	1.5262	0.7056
JER	DEU	300.70	0.9648	26.806	1.0807	15.534	0.9617	0.7921
JER	DFS	-5966.20	60.5250	-165.300	2.1790	-146.600	1.6910	0.8281
JER	GBR	82.10	2.8570	12.100	2.8020	4.800	2.8420	0.6889
JER	IRL	494.20	2.3160	-21.000	3.3870	4.600	2.0190	0.5476
JER	ITA	20.98	0.9778	9.141	0.8895	4.780	0.8240	0.7396
JER	NLD	2485.52	0.8672	50.177	0.9157	63.904	0.8344	0.7569
JER	NZL	415.10	1.5520	6.300	1.3420	9.000	1.3750	0.4761
JER	USA	954.50	0.7980	33.700	0.9020	30.000	0.8410	0.7921
JER	ZAF	168.90	1.3910	0.500	1.6290	3.500	1.2880	0.6724

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 Conversion Factors For SCS Traits. Source: INTERBULL 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.600	-21.3600	0.7569
JER	CHE	57.704	0.4445	0.7921
JER	DFS	60.600	0.4440	0.8281
JER	GBR	99.977	-0.4977	0.8464
JER	NLD	-26.351	1.3584	0.8464
JER	NZL	98.700	-14.3450	0.7396
JER	USA	194.000	-31.2750	0.8100
JER	ZAF	100.614	-0.2524	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
b	t	n	t		a	a
r	r	t	r		l	l
e	a	r	a		u	u
e	i	y	i		e	e
d	t	2	t			
JER CONFORMATION		AUS GENERAL APPEARANCE		-6.532	4.8356	0.32
JER FEET AND LEGS		AUS OVERALL FEET & LEG		-37.955	0.3296	

JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-6.263	5.3523
JER STATURE	AUS STATURE	-4.866	10.7433
JER CHEST WIDTH	AUS CHEST WIDTH	1.830	16.8355
JER BODY DEPTH	AUS BODY DEPTH	1.521	13.1786
JER PIN WIDTH	AUS PIN WIDTH	-0.049	16.2445
JER RUMP ANGLE	AUS RUMP ANGLE	0.248	13.3072
JER FOOT ANGLE	AUS FOOT ANGLE	-2.772	15.2403
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	2.790	24.5026
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-4.902	12.8752
JER UDDER DEPTH	AUS UDDER DEPTH	-5.600	13.8276
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.106	14.1926
JER FORE ATTACHMENT	AUS FORE UDDER	-5.527	11.1155
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.880	12.0027
JER TEAT LENGTH	AUS TEAT LENGTH	-0.480	16.2809
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-4.686	15.4877
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.199	16.2612
JER ANGULARITY	AUS ANGULARITY	-3.380	13.1992

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Conversion Factors For Type. Source = INTERBULL MACE 2004
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CHE

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	t	n	t	a	a	r
e	r	t	r	l	l	r
e	a	r	a	u	u	r
d	i	y	i	e	e	2
	t	2	t			
JER CONFORMATION	CHE CONFORMATION	-76.825	0.7354	0.81		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-51.834	0.4879			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-57.307	0.5581			
JER STATURE	CHE STATURE	-59.338	0.5645			
JER CHEST WIDTH	CHE CHEST WIDTH	-48.634	0.4881			
JER BODY DEPTH	CHE BODY DEPTH	-36.815	0.3689			
JER PIN WIDTH	CHE RUMP WIDTH	-50.629	0.4844			
JER RUMP ANGLE	CHE RUMP ANGLE	-40.968	0.4310			
JER FOOT ANGLE	CHE FOOT ANGLE	-39.241	0.3704			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-55.569	0.5772			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-42.108	0.3877			
JER UDDER DEPTH	CHE UDDER DEPTH	-55.643	0.5614			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-60.421	0.5936			
JER FORE ATTACHMENT	CHE FORE UDDER	-48.699	0.4719			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-58.543	0.5765			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.219	0.4462			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-52.670	0.5106			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-54.635	0.5380			
JER ANGULARITY	CHE ANGULARITY	57.808	-0.6045			

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Conversion Factors For Type. Source = INTERBULL MACE 2004

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	r	t	r	a	a	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
JER CONFORMATION	DFS CONFORMATION			-37.329	0.3222	0.58
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-36.422	0.3346	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-43.699	0.4047	
JER STATURE	DFS STATURE			-57.208	0.5307	
JER CHEST WIDTH	DFS CHEST WIDTH			-38.275	0.3663	
JER BODY DEPTH	DFS BODY DEPTH			-38.177	0.3560	
JER PIN WIDTH	DFS RUMP WIDTH			-54.772	0.4927	
JER RUMP ANGLE	DFS RUMP ANGLE			-47.227	0.4823	
JER FOOT ANGLE	DFS FOOT ANGLE			-41.238	0.4049	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.789	0.4492	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-41.830	0.3713	
JER UDDER DEPTH	DFS UDDER DEPTH			-40.522	0.4067	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-48.874	0.4596	
JER FORE ATTACHMENT	DFS FORE UDDER			-40.150	0.3761	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-50.617	0.4744	
JER TEAT LENGTH	DFS TEAT LENGTH			-37.571	0.3707	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-56.594	0.5463	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-50.855	0.4704	
JER ANGULARITY	DFS ANGULARITY			-47.505	0.4526	

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 Conversion Factors For Type. Source = INTERBULL MACE 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	r	t	r	a	a	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
JER FEET AND LEGS	GBR OVERALL FEET & LEG			-2.407	3.2154	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-2.181	3.9872	
JER STATURE	GBR STATURE			-5.163	5.8718	
JER CHEST WIDTH	GBR CHEST WIDTH			0.253	3.4265	
JER BODY DEPTH	GBR BODY DEPTH			0.439	3.1769	
JER PIN WIDTH	GBR RUMP WIDTH			-2.493	4.1379	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.339	4.7665	
JER FOOT ANGLE	GBR FOOT ANGLE			-1.469	3.1637	

JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.247	2.9676
JER UDDER DEPTH	GBR UDDER DEPTH	-0.579	3.5844
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.298	3.1391
JER FORE ATTACHMENT	GBR FORE UDDER	-0.812	3.1918
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.598	4.3576
JER TEAT LENGTH	GBR TEAT LENGTH	-0.688	3.7187
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.668	4.3801
JER ANGULARITY	GBR ANGULARITY	-4.504	4.8365

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Conversion Factors For Type. Source = INTERBULL MACE 2004
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

	c	c	f			
	a	o	o			
	n	u	r	a	b	t
b	t	n	t	v	v	c
r	r	t	r	a	a	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2

JER CONFORMATION	ITA CONFORMATION	-4.040	6.8302	0.66
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.059	3.9815	
JER STATURE	ITA STATURE	-4.102	4.7151	
JER CHEST WIDTH	ITA CHEST WIDTH	1.155	3.8661	
JER BODY DEPTH	ITA BODY DEPTH	0.759	2.8788	
JER PIN WIDTH	ITA RUMP WIDTH	-2.510	3.3442	
JER RUMP ANGLE	ITA RUMP ANGLE	0.445	4.3814	
JER FOOT ANGLE	ITA FOOT ANGLE	-0.843	2.5328	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	0.850	3.1463	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-1.739	5.0026	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.508	3.6958	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.187	3.1779	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.139	3.3776	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.284	3.0870	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.443	3.1371	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.373	4.0429	
JER ANGULARITY	ITA ANGULARITY	-2.219	4.8737	

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Conversion Factors For Type. Source = INTERBULL MACE 2004
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

	c	c	f			
	a	o	o			
	n	u	r	a	b	t
b	t	n	t	v	v	c
r	r	t	r	a	a	o
e	a	r	a	l	l	r

e d	i t	y 2	i t	u e	u e	r 2
JER CONFORMATION		NLD CONFORMATION		-158.882	1.7497	0.59
JER FEET AND LEGS		NLD OVERALL FEET & LEG		-102.312	0.9121	
JER MAMMARY SYSTEM		NLD OVERALL UDDER SCORE		-122.626	1.3143	
JER STATURE		NLD STATURE		-99.887	1.3526	
JER CHEST WIDTH		NLD CHEST WIDTH		-105.774	1.3821	
JER BODY DEPTH		NLD BODY DEPTH		-92.072	1.1285	
JER PIN WIDTH		NLD RUMP WIDTH		-100.182	1.2468	
JER RUMP ANGLE		NLD RUMP ANGLE		-109.323	1.1569	
JER FOOT ANGLE		NLD FOOT ANGLE		-104.309	1.1164	
JER REAR LEGS SIDE VIEW		NLD REAR LEG SET		-156.490	1.5225	
JER REAR LEG REAR VIEW		NLD REAR LEG REAR VIEW		-137.186	1.2410	
JER UDDER DEPTH		NLD UDDER DEPTH		-115.511	1.3158	
JER MEDIAN SUSPENSORY		NLD MEDIAN SUSPENSORY		-107.181	1.1109	
JER FORE ATTACHMENT		NLD FORE UDDER		-110.784	1.1521	
JER TEAT PLACEMENT		NLD FRONT TEAT PLACEMENT		-106.201	1.0938	
JER TEAT LENGTH		NLD TEAT LENGTH		-124.186	1.1818	
JER REAR ATTACHMENT HEIGHT		NLD REAR UDDER HEIGHT		-131.360	1.3507	
JER REAR TEAT PLACEMENT		NLD REAR TEAT PLACEMENT		-121.428	1.2713	
JER ANGULARITY		NLD ANGULARITY		-94.797	1.0452	

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Conversion Factors For Type. Source = INTERBULL MACE 2004
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

b r e e d	c n t r a i t	c o n f i d e n t	f o r e i g n i t	a v e r a g e	b v a r i a n c e	t c o r r e c t i o n
JER CONFORMATION		NZL OVERALL CONFORMATION		-10.906	10.7352	0.35
JER MAMMARY SYSTEM		NZL OVERALL UDDER SCORE		-10.862	10.1139	
JER STATURE		NZL STATURE		3.730	15.8818	
JER CHEST WIDTH		NZL CHEST WIDTH		6.257	12.4629	
JER BODY DEPTH		NZL BODY DEPTH		4.322	10.7073	
JER PIN WIDTH		NZL RUMP WIDTH		3.755	17.7169	
JER RUMP ANGLE		NZL RUMP ANGLE		1.022	17.7181	
JER REAR LEGS SIDE VIEW		NZL REAR LEG SET		0.201	33.5341	
JER MEDIAN SUSPENSORY		NZL MEDIAN SUSPENSORY		-4.700	9.7174	
JER FORE ATTACHMENT		NZL FORE UDDER		-6.823	9.4268	
JER FRONT TEAT PLACEMENT		NZL FRONT TEAT PLACEMENT		-5.280	18.9413	
JER REAR ATTACHMENT HEIGHT		NZL REAR UDDER HEIGHT		-9.828	12.4440	
JER REAR TEAT PLACEMENT		NZL REAR TEAT PLACEMENT		-2.070	14.7663	

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Conversion Factors For Type. Source = INTERBULL MACE 2004
Converted Canadian Proof = A + (B* Foreign Proof)

Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	r	t	r	a	a	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
JER CONFORMATION		USA PTA TYPE (FINAL SCORE)		-1.281	5.7225	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-2.163	3.1880	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.250	5.7616	
JER STATURE		USA STATURE		0.439	3.7634	
JER CHEST WIDTH		USA STRENGTH		-0.435	6.2514	
JER BODY DEPTH		USA BODY DEPTH		0.534	4.2852	
JER PIN WIDTH		USA THURL WIDTH		0.420	5.4033	
JER RUMP ANGLE		USA RUMP ANGLE		2.196	4.3751	
JER FOOT ANGLE		USA FOOT ANGLE		-1.532	5.8050	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.824	5.8334	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.657	-5.1548	
JER UDDER DEPTH		USA UDDER DEPTH		-1.056	2.7638	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		0.428	5.8693	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-1.101	3.2084	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		0.163	4.5076	
JER TEAT LENGTH		USA TEAT LENGTH		-0.418	4.8566	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		0.453	4.6943	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.901	4.2680	
JER ANGULARITY		USA DAIRY FORM		1.126	5.6570	

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Conversion Factors For Type. Source = INTERBULL MACE 2004

Converted Canadian Proof = A + (B* Foreign Proof)

Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	r	t	r	a	a	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
JER STATURE		ZAF STATURE		-70.151	0.6458	
JER CHEST WIDTH		ZAF CHEST WIDTH		-65.059	0.6409	
JER BODY DEPTH		ZAF BODY DEPTH		-48.125	0.4771	
JER PIN WIDTH		ZAF RUMP WIDTH		-57.039	0.5551	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.777	0.5774	
JER FOOT ANGLE		ZAF FOOT ANGLE		-43.251	0.4109	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-34.445	0.3636	
JER REAR LEG REAR VIEW		ZAF REAR LEG REAR VIEW		-33.463	0.2991	
JER UDDER DEPTH		ZAF UDDER DEPTH		-48.931	0.4613	

JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-51.223	0.5057
JER FORE ATTACHMENT	ZAF FORE UDDER	-46.646	0.4298
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.591	0.5687
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.868	0.4757
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-58.904	0.5689
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-63.764	0.6220
JER ANGULARITY	ZAF ANGULARITY	-56.423	0.5434

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2020

BREED	BMILK	BFAT	BPRT
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AYS	7954	332	270
BSW	8543	365	305
CN	6174	262	221
GUE	6981	334	244
JER	6880	354	267
HOL	10563	416	343
MS	7056	274	233

$$EBVFAT\% = 200 * [(BFAT+EBVFAT*0.5) / (BMILK+EBVMILK*0.5) - (BFAT/BMILK)]$$

$$EBVPROT\% = 200 * [(BPRT+EBVPRT*0.5) / (BMILK+EBVMILK*0.5) - (BPRT/BMILK)]$$

EXAMPLE:

A HOLSTEIN bull has EBV MILK=+1000, EBVFAT=+50, EBVPROT=+40

$$\begin{aligned}
 EBVFAT\% &= 200 * [(416+50*0.5) / (10563+1000*0.5) - (416/111E3)] \\
 &= 200 * [(416+25) / (10563+500) - (0.03938)] \\
 &= 200 * [0.03986 - 0.03938] \\
 &= 200 * 0.00048 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(343+40*0.5) / (10563+1000*0.5) - (343/111E3)] \\
 &= 200 * [(343+20) / (10563+500) - (0.03247)] \\
 &= 200 * [0.03281 - 0.03247] \\
 &= 200 * 0.00034 \\
 &= 0.07
 \end{aligned}$$