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 Conversion Factors For Production Traits. Source: INTERBULL 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	-46.10	1.2630	-10.900	1.6490	-5.700	1.2820	0.4761
JER	CHE	-0.54	1.4140	16.292	1.3221	7.056	1.2426	0.6241
JER	DEU	118.12	0.9031	25.198	1.0440	13.066	0.9172	0.7921
JER	DFS	-5996.60	59.6830	-169.000	2.1770	-146.500	1.6730	0.7744
JER	GBR	-0.10	2.6860	9.200	2.7980	1.700	2.6140	0.6724
JER	IRL	788.59	2.7912	-20.285	3.4328	7.909	2.6034	0.5329
JER	ITA	-27.29	0.9941	10.849	0.9218	2.661	0.8626	0.7225
JER	NLD	2522.54	0.9053	52.687	0.9041	65.962	0.8582	0.7396
JER	NZL	0.90	1.4090	-7.700	1.2430	-4.700	1.1360	0.3969
JER	USA	630.60	0.7510	16.800	0.9110	17.600	0.8120	0.7744
JER	ZAF	18.05	1.4144	5.597	1.4100	1.899	1.3608	0.6400

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 Conversion Factors For SCS Traits. Source: INTERBULL 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.400	-17.7090	0.5929
JER	CHE	63.341	0.3958	0.7569
JER	DFS	60.700	0.4450	0.8281
JER	GBR	99.878	-0.4867	0.8464
JER	ITA	16.996	0.8184	0.7569
JER	NLD	-28.380	1.3883	0.8464
JER	NZL	97.300	-9.5110	0.4489
JER	USA	196.100	-31.8070	0.8100
JER	ZAF	100.730	-0.2480	0.7396

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 Conversion Factors For Type. Source = INTERBULL MACE 2404
 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		a	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 AUS GENERAL APPEARANCE -4.580 4.0214 0.29

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-39.237	0.3723
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-2.989	5.4837
JER STATURE	AUS STATURE	-5.838	11.3131
JER CHEST WIDTH	AUS CHEST WIDTH	1.735	16.4993
JER BODY DEPTH	AUS BODY DEPTH	2.064	13.3348
JER PIN WIDTH	AUS PIN WIDTH	-0.414	15.4843
JER RUMP ANGLE	AUS RUMP ANGLE	0.159	14.2403
JER FOOT ANGLE	AUS FOOT ANGLE	-3.251	18.0064
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	3.050	23.1729
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-3.433	12.7637
JER UDDER DEPTH	AUS UDDER DEPTH	-5.963	14.6654
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-1.028	12.2022
JER FORE ATTACHMENT	AUS FORE UDDER	-3.891	11.2139
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.763	12.4354
JER TEAT LENGTH	AUS TEAT LENGTH	-0.128	15.4971
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-2.674	13.8999
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-1.010	16.7459
JER ANGULARITY	AUS ANGULARITY	-3.693	13.0202

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Conversion Factors For Type. Source = INTERBULL MACE 2404
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CHE

	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	CHE CONFORMATION	-54.770	0.5227	0.69
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-38.655	0.3678	
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-53.079	0.5136	
JER STATURE	CHE STATURE	-57.531	0.5561	
JER CHEST WIDTH	CHE CHEST WIDTH	-44.699	0.4542	
JER BODY DEPTH	CHE BODY DEPTH	-36.090	0.3636	
JER PIN WIDTH	CHE RUMP WIDTH	-46.270	0.4434	
JER RUMP ANGLE	CHE RUMP ANGLE	-40.226	0.4240	
JER FOOT ANGLE	CHE FOOT ANGLE	-48.100	0.4507	
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-59.837	0.6117	
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-38.155	0.3565	
JER UDDER DEPTH	CHE UDDER DEPTH	-53.124	0.5321	
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-52.928	0.5240	
JER FORE ATTACHMENT	CHE FORE UDDER	-46.679	0.4396	
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-61.650	0.6012	
JER TEAT LENGTH	CHE TEAT LENGTH	-45.586	0.4494	
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-49.954	0.4863	
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-56.614	0.5513	
JER ANGULARITY	CHE ANGULARITY	58.649	-0.6069	

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Conversion Factors For Type. Source = INTERBULL MACE 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	c	c	f			
	a	o	o		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			-27.888	0.2373	0.38
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-27.743	0.2591	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-43.507	0.4154	
JER STATURE	DFS STATURE			-57.622	0.5461	
JER CHEST WIDTH	DFS CHEST WIDTH			-34.199	0.3348	
JER BODY DEPTH	DFS BODY DEPTH			-38.155	0.3520	
JER PIN WIDTH	DFS RUMP WIDTH			-51.189	0.4787	
JER RUMP ANGLE	DFS RUMP ANGLE			-46.995	0.4806	
JER FOOT ANGLE	DFS FOOT ANGLE			-45.962	0.4470	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.335	0.4486	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-40.648	0.3647	
JER UDDER DEPTH	DFS UDDER DEPTH			-40.069	0.4224	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-45.469	0.4111	
JER FORE ATTACHMENT	DFS FORE UDDER			-42.240	0.4059	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-48.354	0.4587	
JER TEAT LENGTH	DFS TEAT LENGTH			-37.624	0.3669	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-55.674	0.5294	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-50.038	0.4512	
JER ANGULARITY	DFS ANGULARITY			-50.687	0.4693	

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

country2=GBR

	c	c	f			
	a	o	o		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			-1.116	2.3580	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-0.830	3.5118	
JER STATURE	GBR STATURE			-3.622	5.4790	
JER CHEST WIDTH	GBR CHEST WIDTH			0.342	3.2673	
JER BODY DEPTH	GBR BODY DEPTH			0.683	3.1731	
JER PIN WIDTH	GBR RUMP WIDTH			-1.218	4.2299	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.281	4.3072	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.470	3.3631
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.167	3.0919
JER UDDER DEPTH	GBR UDDER DEPTH	0.200	3.7431
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.483	3.1240
JER FORE ATTACHMENT	GBR FORE UDDER	-0.692	3.2331
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	0.356	4.2949
JER TEAT LENGTH	GBR TEAT LENGTH	-0.288	3.5594
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.032	3.8397
JER ANGULARITY	GBR ANGULARITY	-3.718	4.6366

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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	-3.186	2.7547	0.49
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.180	1.6653	
JER MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-3.613	3.0474	
JER STATURE	ITA STATURE	-5.882	3.8537	
JER CHEST WIDTH	ITA CHEST WIDTH	0.407	3.1277	
JER BODY DEPTH	ITA BODY DEPTH	0.335	2.6176	
JER PIN WIDTH	ITA RUMP WIDTH	-3.495	3.5372	
JER RUMP ANGLE	ITA RUMP ANGLE	0.388	3.2607	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.736	3.2779	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.215	2.7589	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-2.452	3.6167	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.822	3.0716	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.051	2.8967	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.754	3.1679	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-1.655	3.2819	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.654	2.8181	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.477	3.5085	
JER ANGULARITY	ITA ANGULARITY	-3.374	4.1186	

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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	i	y	i	u	u	r
d	t	2	t	e	e	2

JER CONFORMATION	NLD CONFORMATION	-96.510	1.0711	0.50
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-70.018	0.6464	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-99.953	1.0701	
JER STATURE	NLD STATURE	-92.086	1.2658	
JER CHEST WIDTH	NLD CHEST WIDTH	-101.403	1.3628	
JER BODY DEPTH	NLD BODY DEPTH	-81.327	1.0153	
JER PIN WIDTH	NLD RUMP WIDTH	-91.280	1.1528	
JER RUMP ANGLE	NLD RUMP ANGLE	-108.537	1.1499	
JER FOOT ANGLE	NLD FOOT ANGLE	-108.190	1.1819	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-158.120	1.5268	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-115.613	1.0709	
JER UDDER DEPTH	NLD UDDER DEPTH	-94.691	1.0782	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-107.625	1.1154	
JER FORE ATTACHMENT	NLD FORE UDDER	-100.590	1.0579	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-104.832	1.0777	
JER TEAT LENGTH	NLD TEAT LENGTH	-123.772	1.1833	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-118.900	1.2301	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-113.644	1.1671	
JER ANGULARITY	NLD ANGULARITY	-92.337	1.0327	

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 Conversion Factors For Type. Source = INTERBULL MACE 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	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	NZL OVERALL CONFORMATION	-9.763	9.6343	0.34
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.762	10.2255	
JER STATURE	NZL STATURE	1.910	15.5798	
JER CHEST WIDTH	NZL CHEST WIDTH	5.932	12.7111	
JER BODY DEPTH	NZL BODY DEPTH	3.644	10.1261	
JER PIN WIDTH	NZL RUMP WIDTH	3.166	16.7577	
JER RUMP ANGLE	NZL RUMP ANGLE	1.062	16.6665	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.059	34.7102	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.733	9.4537	
JER FORE ATTACHMENT	NZL FORE UDDER	-7.576	9.7737	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.398	18.6228	
JER TEAT LENGTH	NZL TEAT LENGTH	-0.270	10.2152	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.895	11.7702	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.691	14.1655	

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Conversion Factors For Type. Source = INTERBULL MACE 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	c
e	r	t	r	a	a	r
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
JER CONFORMATION		USA PTA TYPE (FINAL SCORE)		-1.394	4.5537	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.655	2.3600	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.801	5.7185	
JER STATURE		USA STATURE		-0.789	3.7841	
JER CHEST WIDTH		USA STRENGTH		-0.618	6.0037	
JER BODY DEPTH		USA BODY DEPTH		0.262	4.2013	
JER PIN WIDTH		USA THURL WIDTH		-0.347	5.0211	
JER RUMP ANGLE		USA RUMP ANGLE		1.801	4.4306	
JER FOOT ANGLE		USA FOOT ANGLE		-2.344	6.7920	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.795	6.7497	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.360	-4.9389	
JER UDDER DEPTH		USA UDDER DEPTH		-2.082	2.9738	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		-0.209	5.3823	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-2.254	3.6180	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.706	4.4819	
JER TEAT LENGTH		USA TEAT LENGTH		-0.428	4.8822	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-1.147	4.3438	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.152	4.3977	
JER ANGULARITY		USA DAIRY FORM		-0.441	5.7243	

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 Conversion Factors For Type. Source = INTERBULL MACE 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	c
e	r	t	r	a	a	r
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
JER STATURE		ZAF STATURE		-70.828	0.6553	
JER CHEST WIDTH		ZAF CHEST WIDTH		-59.795	0.5987	
JER BODY DEPTH		ZAF BODY DEPTH		-46.438	0.4648	
JER PIN WIDTH		ZAF RUMP WIDTH		-54.482	0.5396	
JER RUMP ANGLE		ZAF RUMP ANGLE		-55.962	0.5680	
JER FOOT ANGLE		ZAF FOOT ANGLE		-46.796	0.4471	

JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-33.756	0.3557
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-29.897	0.2724
JER UDDER DEPTH	ZAF UDDER DEPTH	-49.618	0.4754
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-49.309	0.4842
JER FORE ATTACHMENT	ZAF FORE UDDER	-47.391	0.4426
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.409	0.5758
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.143	0.4636
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-54.293	0.5220
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-62.958	0.6159
JER ANGULARITY	ZAF ANGULARITY	-56.827	0.5497

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2024

BREED	BMILK	BFAT	BPRT
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AYS	8203	342	282
BSW	8779	374	314
CN	5591	241	203
GUE	7216	335	253
JER	7169	370	280
HOL	11061	443	366
MS	7112	285	244

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(443+50*0.5) / (11061+1000*0.5) - (443/11061)] \\
 &= 200 * [(443+25) / (11061+500) - (0.04005)] \\
 &= 200 * [0.04048 - 0.04005] \\
 &= 200 * 0.00043 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(366+40*0.5) / (11061+1000*0.5) - (366/11061)] \\
 &= 200 * [(366+20) / (11061+500) - (0.03309)] \\
 &= 200 * [0.03339 - 0.03309] \\
 &= 200 * 0.00030 \\
 &= 0.06
 \end{aligned}$$