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 Conversion Factors For Production Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	-46.00	1.2570	-10.200	1.6420	-5.200	1.2820	0.4761
JER	CHE	3.31	1.3554	17.028	1.2983	7.232	1.1867	0.6241
JER	DEU	145.32	0.9167	27.372	1.0526	14.589	0.9260	0.7921
JER	DFS	-6055.50	60.0630	-171.800	2.2240	-148.300	1.7030	0.7744
JER	GBR	54.30	2.8810	9.900	2.8570	2.700	2.6650	0.6724
JER	IRL	795.69	2.8033	-19.839	3.4632	8.605	2.5858	0.5329
JER	ITA	-16.63	0.9942	11.925	0.9225	3.718	0.8641	0.7225
JER	NLD	2589.00	0.9133	53.883	0.9215	67.823	0.8654	0.7396
JER	NZL	-13.70	1.4190	-6.700	1.2320	-4.200	1.1400	0.3969
JER	USA	628.60	0.7830	17.000	0.9680	17.800	0.8770	0.7744
JER	ZAF	25.25	1.4339	6.515	1.4312	2.634	1.3871	0.6400

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 Conversion Factors For SCS Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.300	-17.6950	0.5929
JER	CHE	63.567	0.3912	0.7569
JER	DFS	61.600	0.4400	0.8281
JER	GBR	100.300	-0.4870	0.8464
JER	ITA	18.543	0.8014	0.7569
JER	NLD	-24.721	1.3472	0.8464
JER	NZL	96.900	-9.3690	0.4489
JER	USA	195.400	-31.5600	0.8100
JER	ZAF	100.585	-0.2451	0.7396

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

	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 AUS GENERAL APPEARANCE -4.612 4.0576 0.29

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-39.079	0.3709
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-2.902	5.4699
JER STATURE	AUS STATURE	-5.862	11.3145
JER CHEST WIDTH	AUS CHEST WIDTH	1.711	16.6318
JER BODY DEPTH	AUS BODY DEPTH	2.092	13.3342
JER PIN WIDTH	AUS PIN WIDTH	-0.448	15.4949
JER RUMP ANGLE	AUS RUMP ANGLE	0.106	14.2839
JER FOOT ANGLE	AUS FOOT ANGLE	-3.328	17.4857
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	3.070	23.3051
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-3.297	12.9294
JER UDDER DEPTH	AUS UDDER DEPTH	-6.012	14.7058
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-1.059	12.1920
JER FORE ATTACHMENT	AUS FORE UDDER	-3.798	11.0634
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.723	12.4812
JER TEAT LENGTH	AUS TEAT LENGTH	-0.106	15.5317
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-2.585	13.8923
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-1.039	16.6612
JER ANGULARITY	AUS ANGULARITY	-3.512	12.7487

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-55.655	0.5330	0.69		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-39.232	0.3747			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-53.257	0.5165			
JER STATURE	CHE STATURE	-57.739	0.5583			
JER CHEST WIDTH	CHE CHEST WIDTH	-44.756	0.4542			
JER BODY DEPTH	CHE BODY DEPTH	-35.169	0.3557			
JER PIN WIDTH	CHE RUMP WIDTH	-45.544	0.4364			
JER RUMP ANGLE	CHE RUMP ANGLE	-40.675	0.4280			
JER FOOT ANGLE	CHE FOOT ANGLE	-47.602	0.4474			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-57.973	0.5913			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-35.614	0.3303			
JER UDDER DEPTH	CHE UDDER DEPTH	-52.662	0.5261			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-51.397	0.5103			
JER FORE ATTACHMENT	CHE FORE UDDER	-45.839	0.4308			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-60.873	0.5948			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.178	0.4456			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-50.160	0.4889			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-55.021	0.5354			
JER ANGULARITY	CHE ANGULARITY	58.237	-0.6026			

Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	t	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			-28.031	0.2399	0.38
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-27.222	0.2561	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-43.370	0.4167	
JER STATURE	DFS STATURE			-58.055	0.5493	
JER CHEST WIDTH	DFS CHEST WIDTH			-34.508	0.3368	
JER BODY DEPTH	DFS BODY DEPTH			-38.205	0.3508	
JER PIN WIDTH	DFS RUMP WIDTH			-51.342	0.4792	
JER RUMP ANGLE	DFS RUMP ANGLE			-47.583	0.4813	
JER FOOT ANGLE	DFS FOOT ANGLE			-46.449	0.4497	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.456	0.4510	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-40.042	0.3625	
JER UDDER DEPTH	DFS UDDER DEPTH			-39.830	0.4225	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-45.338	0.4092	
JER FORE ATTACHMENT	DFS FORE UDDER			-41.831	0.4044	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-48.621	0.4617	
JER TEAT LENGTH	DFS TEAT LENGTH			-37.893	0.3677	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-55.694	0.5302	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-49.866	0.4489	
JER ANGULARITY	DFS ANGULARITY			-50.878	0.4708	

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	t	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			-1.059	2.3739	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-0.786	3.5054	
JER STATURE	GBR STATURE			-3.597	5.5400	
JER CHEST WIDTH	GBR CHEST WIDTH			0.293	3.3029	
JER BODY DEPTH	GBR BODY DEPTH			0.703	3.1509	
JER PIN WIDTH	GBR RUMP WIDTH			-1.234	4.2147	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.302	4.3025	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.484	3.4484
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.183	3.1530
JER UDDER DEPTH	GBR UDDER DEPTH	0.162	3.7549
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.546	3.1158
JER FORE ATTACHMENT	GBR FORE UDDER	-0.685	3.2184
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	0.366	4.3448
JER TEAT LENGTH	GBR TEAT LENGTH	-0.276	3.5494
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-1.970	3.8510
JER ANGULARITY	GBR ANGULARITY	-3.666	4.6494

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-3.117	2.7857	0.49		
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.098	1.5704			
JER MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-3.447	3.0598			
JER STATURE	ITA STATURE	-5.866	3.8771			
JER CHEST WIDTH	ITA CHEST WIDTH	0.460	3.0480			
JER BODY DEPTH	ITA BODY DEPTH	0.403	2.6236			
JER PIN WIDTH	ITA RUMP WIDTH	-3.308	3.5790			
JER RUMP ANGLE	ITA RUMP ANGLE	0.382	3.3450			
JER FOOT ANGLE	ITA FOOT ANGLE	-1.545	3.1594			
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.312	2.7632			
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-2.608	3.7472			
JER UDDER DEPTH	ITA UDDER DEPTH	-2.760	3.0862			
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.968	2.9267			
JER FORE ATTACHMENT	ITA FORE UDDER	-3.596	3.1925			
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-1.439	3.2863			
JER TEAT LENGTH	ITA TEAT LENGTH	-0.838	2.8767			
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.255	3.5970			
JER ANGULARITY	ITA ANGULARITY	-3.646	3.9271			

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-88.252	0.9725	0.50
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-63.516	0.5874	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-98.618	1.0547	
JER STATURE	NLD STATURE	-89.852	1.2335	
JER CHEST WIDTH	NLD CHEST WIDTH	-100.796	1.3463	
JER BODY DEPTH	NLD BODY DEPTH	-80.421	0.9996	
JER PIN WIDTH	NLD RUMP WIDTH	-90.782	1.1435	
JER RUMP ANGLE	NLD RUMP ANGLE	-105.230	1.1137	
JER FOOT ANGLE	NLD FOOT ANGLE	-112.342	1.2305	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-162.798	1.5720	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-104.697	0.9707	
JER UDDER DEPTH	NLD UDDER DEPTH	-95.265	1.0841	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-107.939	1.1154	
JER FORE ATTACHMENT	NLD FORE UDDER	-99.098	1.0410	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-102.628	1.0517	
JER TEAT LENGTH	NLD TEAT LENGTH	-124.579	1.1914	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-118.923	1.2298	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-109.085	1.1153	
JER ANGULARITY	NLD ANGULARITY	-96.027	1.0673	

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	-9.711	9.6190	0.34
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.653	10.2453	
JER STATURE	NZL STATURE	1.866	15.6450	
JER CHEST WIDTH	NZL CHEST WIDTH	5.872	12.7915	
JER BODY DEPTH	NZL BODY DEPTH	3.656	10.1473	
JER PIN WIDTH	NZL RUMP WIDTH	3.097	16.7306	
JER RUMP ANGLE	NZL RUMP ANGLE	0.968	16.6861	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.069	34.8920	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.719	9.4177	
JER FORE ATTACHMENT	NZL FORE UDDER	-7.418	9.7333	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.387	18.6973	
JER TEAT LENGTH	NZL TEAT LENGTH	-0.237	10.2223	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.724	11.7908	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.724	14.0993	

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Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	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)		-1.455	4.5027	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.673	2.3286	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.824	5.7147	
JER STATURE		USA STATURE		-0.720	3.8173	
JER CHEST WIDTH		USA STRENGTH		-0.604	6.0923	
JER BODY DEPTH		USA BODY DEPTH		0.265	4.2269	
JER PIN WIDTH		USA THURL WIDTH		-0.382	5.0157	
JER RUMP ANGLE		USA RUMP ANGLE		1.802	4.4374	
JER FOOT ANGLE		USA FOOT ANGLE		-2.332	6.7961	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.749	6.7869	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.340	-4.9055	
JER UDDER DEPTH		USA UDDER DEPTH		-2.088	2.9940	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		-0.318	5.3727	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-2.259	3.6007	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.734	4.5027	
JER TEAT LENGTH		USA TEAT LENGTH		-0.431	4.8822	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-1.168	4.3370	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.085	4.3823	
JER ANGULARITY		USA DAIRY FORM		-0.446	5.7903	

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	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		-71.506	0.6625	
JER CHEST WIDTH		ZAF CHEST WIDTH		-60.617	0.6066	
JER BODY DEPTH		ZAF BODY DEPTH		-46.888	0.4696	
JER PIN WIDTH		ZAF RUMP WIDTH		-54.556	0.5400	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.298	0.5712	
JER FOOT ANGLE		ZAF FOOT ANGLE		-47.083	0.4503	

JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-33.959	0.3577
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-30.055	0.2746
JER UDDER DEPTH	ZAF UDDER DEPTH	-50.109	0.4804
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-49.440	0.4856
JER FORE ATTACHMENT	ZAF FORE UDDER	-47.033	0.4396
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.742	0.5789
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.447	0.4667
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-54.369	0.5237
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-63.156	0.6177
JER ANGULARITY	ZAF ANGULARITY	-56.916	0.5517

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2024

BREED	BMILK	BFAT	BPRT
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AYS	8168	340	281
BSW	8791	374	314
CN	5568	240	201
GUE	7268	337	256
JER	7180	370	281
HOL	11058	443	366
MS	7222	291	248

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(443+50*0.5) / (11058+1000*0.5) - (443/11058)] \\
 &= 200 * [(443+25) / (11058+500) - (0.04006)] \\
 &= 200 * [0.04049 - 0.04006] \\
 &= 200 * 0.00043 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(366+40*0.5) / (11058+1000*0.5) - (366/11058)] \\
 &= 200 * [(366+20) / (11058+500) - (0.03310)] \\
 &= 200 * [0.03340 - 0.03310] \\
 &= 200 * 0.00030 \\
 &= 0.06
 \end{aligned}$$