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 Conversion Factors For Production Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	13.10	1.2550	-7.900	1.6760	-3.400	1.3070	0.4761
JER	CHE	40.31	1.5343	18.845	1.3568	8.098	1.3598	0.6400
JER	DEU	162.81	0.9148	25.682	1.0596	13.716	0.9327	0.7921
JER	DFS	-5956.10	59.8650	-166.600	2.1570	-145.300	1.6730	0.7744
JER	GBR	-10.30	2.7100	8.300	2.9030	1.200	2.6550	0.6724
JER	IRL	433.10	2.5580	-30.400	3.7400	-3.300	2.1670	0.5329
JER	ITA	-71.80	1.0004	10.280	0.9232	2.212	0.8706	0.7396
JER	NLD	2594.79	0.9124	51.635	0.9105	66.452	0.8652	0.7396
JER	NZL	73.80	1.3980	-3.400	1.2350	-1.700	1.1470	0.3969
JER	USA	722.70	0.7560	20.800	0.9240	20.900	0.8260	0.7744
JER	ZAF	86.56	1.4216	8.592	1.4181	4.645	1.3661	0.6561

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 Conversion Factors For SCS Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.500	-17.7360	0.5929
JER	CHE	61.607	0.4082	0.7744
JER	DFS	60.800	0.4420	0.8281
JER	GBR	100.400	-0.4550	0.8464
JER	ITA	24.662	0.7459	0.7569
JER	NLD	-27.368	1.3707	0.8281
JER	NZL	97.400	-9.3380	0.4489
JER	USA	194.700	-31.3660	0.8100
JER	ZAF	100.871	-0.2442	0.7225

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 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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 -3.317 3.6748 0.29

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-39.078	0.3713
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-2.998	5.5202
JER STATURE	AUS STATURE	-5.740	11.1222
JER CHEST WIDTH	AUS CHEST WIDTH	1.551	16.3120
JER BODY DEPTH	AUS BODY DEPTH	1.846	12.9891
JER PIN WIDTH	AUS PIN WIDTH	-0.420	15.5729
JER RUMP ANGLE	AUS RUMP ANGLE	0.241	14.4045
JER FOOT ANGLE	AUS FOOT ANGLE	-3.069	17.4137
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	3.065	23.2741
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-3.832	12.3591
JER UDDER DEPTH	AUS UDDER DEPTH	-5.892	14.4940
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-1.067	12.2416
JER FORE ATTACHMENT	AUS FORE UDDER	-4.011	11.2884
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.418	12.2841
JER TEAT LENGTH	AUS TEAT LENGTH	-0.061	15.4867
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-2.742	14.0644
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.808	17.2625
JER ANGULARITY	AUS ANGULARITY	-3.757	13.7776

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Conversion Factors For Type. Source = INTERBULL MACE 2308
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	-55.658	0.5297	0.69		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-39.474	0.3745			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-52.867	0.5111			
JER STATURE	CHE STATURE	-57.713	0.5525			
JER CHEST WIDTH	CHE CHEST WIDTH	-45.350	0.4583			
JER BODY DEPTH	CHE BODY DEPTH	-37.777	0.3794			
JER PIN WIDTH	CHE RUMP WIDTH	-47.055	0.4502			
JER RUMP ANGLE	CHE RUMP ANGLE	-40.922	0.4304			
JER FOOT ANGLE	CHE FOOT ANGLE	-46.739	0.4399			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-59.279	0.6065			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-38.825	0.3606			
JER UDDER DEPTH	CHE UDDER DEPTH	-52.069	0.5201			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-54.238	0.5351			
JER FORE ATTACHMENT	CHE FORE UDDER	-46.828	0.4396			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-62.273	0.6060			
JER TEAT LENGTH	CHE TEAT LENGTH	-44.835	0.4425			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-50.825	0.4936			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-56.450	0.5492			
JER ANGULARITY	CHE ANGULARITY	59.682	-0.6188			

Conversion Factors For Type. Source = INTERBULL MACE 2308
 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			-28.431	0.2423	0.40
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-27.991	0.2597	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-43.990	0.4203	
JER STATURE	DFS STATURE			-57.435	0.5446	
JER CHEST WIDTH	DFS CHEST WIDTH			-34.029	0.3302	
JER BODY DEPTH	DFS BODY DEPTH			-38.758	0.3564	
JER PIN WIDTH	DFS RUMP WIDTH			-51.723	0.4824	
JER RUMP ANGLE	DFS RUMP ANGLE			-47.145	0.4817	
JER FOOT ANGLE	DFS FOOT ANGLE			-44.866	0.4375	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.712	0.4523	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-40.781	0.3602	
JER UDDER DEPTH	DFS UDDER DEPTH			-39.802	0.4173	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-46.542	0.4183	
JER FORE ATTACHMENT	DFS FORE UDDER			-42.124	0.4021	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-49.211	0.4648	
JER TEAT LENGTH	DFS TEAT LENGTH			-36.918	0.3645	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-56.270	0.5365	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-49.703	0.4507	
JER ANGULARITY	DFS ANGULARITY			-51.147	0.4762	

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 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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			-1.136	2.3473	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-1.214	3.5647	
JER STATURE	GBR STATURE			-4.155	5.6059	
JER CHEST WIDTH	GBR CHEST WIDTH			0.475	3.2290	
JER BODY DEPTH	GBR BODY DEPTH			0.527	3.2495	
JER PIN WIDTH	GBR RUMP WIDTH			-1.557	4.1541	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.272	4.4456	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.518	3.3715
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.183	3.0657
JER UDDER DEPTH	GBR UDDER DEPTH	-0.207	3.6813
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.027	3.1845
JER FORE ATTACHMENT	GBR FORE UDDER	-0.916	3.2271
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.009	4.3586
JER TEAT LENGTH	GBR TEAT LENGTH	-0.205	3.4772
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.468	4.0462
JER ANGULARITY	GBR ANGULARITY	-4.028	4.7591

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Conversion Factors For Type. Source = INTERBULL MACE 2308
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	-3.455	2.7935	0.49		
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.167	1.6326			
JER MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-3.660	3.1089			
JER STATURE	ITA STATURE	-5.898	4.0799			
JER CHEST WIDTH	ITA CHEST WIDTH	0.148	3.1665			
JER BODY DEPTH	ITA BODY DEPTH	0.113	2.5910			
JER PIN WIDTH	ITA RUMP WIDTH	-3.653	3.6603			
JER RUMP ANGLE	ITA RUMP ANGLE	0.357	3.2967			
JER FOOT ANGLE	ITA FOOT ANGLE	-1.479	3.1515			
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.375	2.7254			
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-2.451	3.4264			
JER UDDER DEPTH	ITA UDDER DEPTH	-2.837	3.0712			
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.252	2.7899			
JER FORE ATTACHMENT	ITA FORE UDDER	-3.889	3.2015			
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.094	3.3483			
JER TEAT LENGTH	ITA TEAT LENGTH	-0.467	2.9022			
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.805	3.5644			
JER ANGULARITY	ITA ANGULARITY	-3.641	4.1924			

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Conversion Factors For Type. Source = INTERBULL MACE 2308
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	-101.861	1.1237	0.52
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-75.123	0.6819	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-106.007	1.1299	
JER STATURE	NLD STATURE	-92.507	1.2603	
JER CHEST WIDTH	NLD CHEST WIDTH	-100.987	1.3377	
JER BODY DEPTH	NLD BODY DEPTH	-82.289	1.0085	
JER PIN WIDTH	NLD RUMP WIDTH	-92.434	1.1571	
JER RUMP ANGLE	NLD RUMP ANGLE	-111.456	1.1784	
JER FOOT ANGLE	NLD FOOT ANGLE	-107.367	1.1688	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-158.451	1.5391	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-119.877	1.0955	
JER UDDER DEPTH	NLD UDDER DEPTH	-106.729	1.2207	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-110.744	1.1465	
JER FORE ATTACHMENT	NLD FORE UDDER	-106.687	1.1206	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-107.461	1.1020	
JER TEAT LENGTH	NLD TEAT LENGTH	-123.115	1.1789	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-119.342	1.2260	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-116.941	1.2037	
JER ANGULARITY	NLD ANGULARITY	-94.298	1.0447	

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 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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	-9.825	9.4352	0.32
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.629	10.2468	
JER STATURE	NZL STATURE	2.225	15.7079	
JER CHEST WIDTH	NZL CHEST WIDTH	5.752	12.6417	
JER BODY DEPTH	NZL BODY DEPTH	3.529	10.2001	
JER PIN WIDTH	NZL RUMP WIDTH	3.256	16.8690	
JER RUMP ANGLE	NZL RUMP ANGLE	1.169	17.0901	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.204	35.1352	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.756	9.4423	
JER FORE ATTACHMENT	NZL FORE UDDER	-7.515	9.7543	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.529	19.2490	
JER TEAT LENGTH	NZL TEAT LENGTH	-0.110	10.1476	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.947	11.7210	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.558	14.3452	

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Conversion Factors For Type. Source = INTERBULL MACE 2308
 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	o
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)		-1.190	4.6472	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.500	2.3477	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.573	5.8027	
JER STATURE		USA STATURE		-0.570	3.8069	
JER CHEST WIDTH		USA STRENGTH		-0.584	5.9902	
JER BODY DEPTH		USA BODY DEPTH		0.230	4.3267	
JER PIN WIDTH		USA THURL WIDTH		-0.285	5.1105	
JER RUMP ANGLE		USA RUMP ANGLE		1.896	4.4133	
JER FOOT ANGLE		USA FOOT ANGLE		-2.141	6.7021	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.845	6.6390	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.323	-4.9245	
JER UDDER DEPTH		USA UDDER DEPTH		-1.898	2.9242	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		-0.114	5.4376	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-2.065	3.6112	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.605	4.5521	
JER TEAT LENGTH		USA TEAT LENGTH		-0.358	4.8707	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-0.878	4.4098	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.256	4.3645	
JER ANGULARITY		USA DAIRY FORM		-0.257	5.7356	

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 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	o
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		-70.387	0.6524	
JER CHEST WIDTH		ZAF CHEST WIDTH		-59.809	0.5967	
JER BODY DEPTH		ZAF BODY DEPTH		-46.900	0.4675	
JER PIN WIDTH		ZAF RUMP WIDTH		-54.543	0.5390	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.531	0.5744	
JER FOOT ANGLE		ZAF FOOT ANGLE		-45.898	0.4398	

JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-33.565	0.3535
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-30.153	0.2758
JER UDDER DEPTH	ZAF UDDER DEPTH	-49.069	0.4694
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-50.075	0.4919
JER FORE ATTACHMENT	ZAF FORE UDDER	-47.326	0.4416
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-59.131	0.5827
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.171	0.4644
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-55.222	0.5318
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-62.458	0.6122
JER ANGULARITY	ZAF ANGULARITY	-57.112	0.5517

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2023

BREED	BMILK	BFAT	BPRT
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AYS	8079	337	277
BSW	8742	370	313
CN	5847	253	210
GUE	7418	335	255
JER	7090	366	276
HOL	10961	437	361
MS	6971	275	237

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(437+50*0.5) / (10961+1000*0.5) - (437/11E3)] \\
 &= 200 * [(437+25) / (10961+500) - (0.03987)] \\
 &= 200 * [0.04031 - 0.03987] \\
 &= 200 * 0.00044 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(361+40*0.5) / (10961+1000*0.5) - (361/11E3)] \\
 &= 200 * [(361+20) / (10961+500) - (0.03293)] \\
 &= 200 * [0.03324 - 0.03293] \\
 &= 200 * 0.00031 \\
 &= 0.06
 \end{aligned}$$