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 Conversion Factors For Production Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	423.90	1.3190	13.000	1.5520	12.300	1.2770	0.5329
JER	DEU	193.17	0.9925	21.853	0.9672	11.345	0.8870	0.7396
JER	DFS	-5596.70	56.9150	-147.800	2.0030	-136.700	1.5780	0.8281
JER	GBR	-220.30	2.7190	3.800	2.5070	-3.400	2.6910	0.7225
JER	IRL	604.50	2.2930	-12.100	3.1580	8.900	1.8170	0.5625
JER	ITA	134.21	0.9599	18.215	0.9034	9.375	0.8141	0.7225
JER	NLD	2322.55	0.8614	47.574	0.9246	58.956	0.8246	0.7744
JER	NZL	587.80	1.4430	19.800	1.2840	17.800	1.3470	0.4761
JER	USA	718.80	0.8660	23.200	0.9510	21.100	0.8850	0.7921
JER	ZAF	288.10	1.4520	7.700	1.6240	9.000	1.3810	0.6889

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 Conversion Factors For SCS Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	3.700	-0.0060	0.7569
JER	DFS	4.300	-0.0160	0.8281
JER	GBR	2.965	0.0179	0.8281
JER	NLD	-2.120	0.0530	0.8464
JER	NZL	3.000	0.4930	0.7744
JER	USA	-0.100	1.0590	0.8281
JER	ZAF	2.900	0.0090	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1712
 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			-57.617	0.5138	0.29
JER FEET AND LEGS		AUS OVERALL FEET & LEG			-52.829	0.4820	
JER MAMMARY SYSTEM		AUS OVERALL UDDER SCORE			-71.096	0.6581	
JER STATURE		AUS STATURE			-102.132	0.9737	

JER CHEST WIDTH	AUS CHEST WIDTH	-86.357	0.8730
JER BODY DEPTH	AUS BODY DEPTH	-89.939	0.9089
JER PIN WIDTH	AUS PIN WIDTH	-93.036	0.9244
JER RUMP ANGLE	AUS RUMP ANGLE	-78.303	0.7893
JER FOOT ANGLE	AUS FOOT ANGLE	-56.976	0.5359
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-54.998	0.5803
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-40.629	0.3585
JER UDDER DEPTH	AUS UDDER DEPTH	-95.083	0.9028
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-105.791	1.0616
JER FORE ATTACHMENT	AUS FORE UDDER	-64.755	0.5940
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-92.077	0.9112
JER TEAT LENGTH	AUS TEAT LENGTH	-84.620	0.8370
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-105.773	1.0127
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-104.604	1.0526
JER ANGULARITY	AUS ANGULARITY	-78.684	0.7462

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	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	DFS CONFORMATION	-35.746	0.3101	0.56		
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-36.837	0.3401			
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-39.966	0.3766			
JER STATURE	DFS STATURE	-55.339	0.5113			
JER CHEST WIDTH	DFS CHEST WIDTH	-34.957	0.3283			
JER BODY DEPTH	DFS BODY DEPTH	-38.153	0.3531			
JER PIN WIDTH	DFS RUMP WIDTH	-56.475	0.4945			
JER RUMP ANGLE	DFS RUMP ANGLE	-44.648	0.4620			
JER FOOT ANGLE	DFS FOOT ANGLE	-39.638	0.3889			
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-40.771	0.4386			
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-44.092	0.3832			
JER UDDER DEPTH	DFS UDDER DEPTH	-36.711	0.3674			
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-46.542	0.4497			
JER FORE ATTACHMENT	DFS FORE UDDER	-37.173	0.3507			
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-49.391	0.4554			
JER TEAT LENGTH	DFS TEAT LENGTH	-36.029	0.3600			
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-56.401	0.5573			
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-50.713	0.4698			
JER ANGULARITY	DFS ANGULARITY	-45.109	0.4232			

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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		-3.257	3.3982	
JER MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-3.043	4.1013	
JER STATURE		GBR STATURE		-6.713	6.0755	
JER CHEST WIDTH		GBR CHEST WIDTH		-0.237	3.7257	
JER BODY DEPTH		GBR BODY DEPTH		-0.654	3.2278	
JER PIN WIDTH		GBR RUMP WIDTH		-3.463	4.4956	
JER RUMP ANGLE		GBR RUMP ANGLE		-0.758	4.4581	
JER FOOT ANGLE		GBR FOOT ANGLE		-1.639	3.2949	
JER REAR LEGS SIDE VIEW		GBR REAR LEG SET		1.528	2.8772	
JER UDDER DEPTH		GBR UDDER DEPTH		-1.172	3.1407	
JER MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-1.405	3.4660	
JER FORE ATTACHMENT		GBR FORE UDDER		-1.034	3.1307	
JER TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-1.432	4.1594	
JER TEAT LENGTH		GBR TEAT LENGTH		-0.859	3.7161	
JER REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-3.787	5.0347	
JER ANGULARITY		GBR ANGULARITY		-5.516	4.9109	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

	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		ITA CONFORMATION		-4.391	6.4195	0.66
JER FEET AND LEGS		ITA OVERALL FEET & LEG		-2.864	3.9483	
JER STATURE		ITA STATURE		-3.930	5.0650	
JER CHEST WIDTH		ITA CHEST WIDTH		0.060	4.1185	
JER BODY DEPTH		ITA BODY DEPTH		-0.017	3.0717	
JER PIN WIDTH		ITA RUMP WIDTH		-2.844	3.6848	
JER RUMP ANGLE		ITA RUMP ANGLE		0.527	3.7459	
JER FOOT ANGLE		ITA FOOT ANGLE		-1.222	2.3585	
JER REAR LEGS SIDE VIEW		ITA REAR LEG SET		1.827	3.1637	
JER REAR LEG REAR VIEW		ITA REAR LEG REAR VIEW		-3.044	4.8584	
JER UDDER DEPTH		ITA UDDER DEPTH		-2.416	3.3462	
JER MEDIAN SUSPENSORY		ITA MEDIAN SUSPENSORY		-0.493	3.1720	
JER FORE ATTACHMENT		ITA FORE UDDER		-3.287	3.0180	

JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.841	3.2321
JER TEAT LENGTH	ITA TEAT LENGTH	-0.163	3.0068
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.507	4.1725
JER ANGULARITY	ITA ANGULARITY	-2.477	4.5903

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

	c	c	f			
	a	o	o		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	-157.074	1.7322	0.61		
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-83.069	0.7127			
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-111.844	1.1851			
JER STATURE	NLD STATURE	-91.196	1.2480			
JER CHEST WIDTH	NLD CHEST WIDTH	-112.278	1.4257			
JER BODY DEPTH	NLD BODY DEPTH	-129.962	1.5718			
JER PIN WIDTH	NLD RUMP WIDTH	-112.232	1.3965			
JER RUMP ANGLE	NLD RUMP ANGLE	-103.796	1.1046			
JER FOOT ANGLE	NLD FOOT ANGLE	-88.391	0.9350			
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-153.325	1.5052			
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-116.760	1.0117			
JER UDDER DEPTH	NLD UDDER DEPTH	-98.332	1.0984			
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-98.300	1.0252			
JER FORE ATTACHMENT	NLD FORE UDDER	-92.654	0.9488			
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-109.955	1.1153			
JER TEAT LENGTH	NLD TEAT LENGTH	-114.997	1.0949			
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-118.412	1.2087			
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-126.877	1.3220			
JER ANGULARITY	NLD ANGULARITY	-113.415	1.2911			

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	c	c	f			
	a	o	o		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	-9.213	11.6349	0.35
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-8.899	10.4952	
JER STATURE	NZL STATURE	5.001	15.1236	
JER CHEST WIDTH	NZL CHEST WIDTH	6.070	12.0021	
JER BODY DEPTH	NZL BODY DEPTH	4.269	11.2545	
JER PIN WIDTH	NZL RUMP WIDTH	4.134	18.8938	
JER RUMP ANGLE	NZL RUMP ANGLE	1.571	17.1397	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.696	34.7881	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-3.123	9.7950	
JER FORE ATTACHMENT	NZL FORE UDDER	-6.249	9.6394	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-4.541	18.9114	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-9.175	13.4331	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-1.520	15.0565	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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)	-3.436	5.2700	0.62		
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.505	5.7715			
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-2.607	8.7640			
JER STATURE	USA STATURE	-1.051	4.8280			
JER CHEST WIDTH	USA STRENGTH	-0.866	7.0401			
JER BODY DEPTH	USA BODY DEPTH	0.346	5.1314			
JER PIN WIDTH	USA THURL WIDTH	0.048	7.1437			
JER RUMP ANGLE	USA RUMP ANGLE	1.246	4.8959			
JER FOOT ANGLE	USA FOOT ANGLE	-2.078	7.2333			
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	1.924	8.0810			
JER REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-2.864	-7.9047			
JER UDDER DEPTH	USA UDDER DEPTH	-3.323	3.3744			
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.510	7.2608			
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-2.970	4.1214			
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.698	5.3508			
JER TEAT LENGTH	USA TEAT LENGTH	0.028	5.8443			
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.664	5.3305			
JER REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.149	4.2549			
JER ANGULARITY	USA DAIRY FORM	-0.201	5.9000			

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f			
	a	o	o			
	n	u	r	a	b	t
b	r	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 STATURE	ZAF STATURE	-68.007	0.6412
JER CHEST WIDTH	ZAF CHEST WIDTH	-62.537	0.6163
JER BODY DEPTH	ZAF BODY DEPTH	-49.329	0.4943
JER PIN WIDTH	ZAF RUMP WIDTH	-56.601	0.5530
JER RUMP ANGLE	ZAF RUMP ANGLE	-53.034	0.5380
JER FOOT ANGLE	ZAF FOOT ANGLE	-39.970	0.3793
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-32.860	0.3488
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-34.789	0.3070
JER UDDER DEPTH	ZAF UDDER DEPTH	-44.280	0.4166
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-49.279	0.4981
JER FORE ATTACHMENT	ZAF FORE UDDER	-42.814	0.3980
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-52.096	0.5140
JER TEAT LENGTH	ZAF TEAT LENGTH	-48.064	0.4802
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-66.300	0.6268
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-56.561	0.5662
JER ANGULARITY	ZAF ANGULARITY	-52.448	0.5064

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2017

BREED	BMILK	BFAT	BPRT
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AYS	7672	318	259
BSW	8298	351	293
CN	5624	246	202
GUE	6778	314	234
JER	6549	329	251
HOL	10093	391	324
MS	6673	258	221

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

$$\begin{aligned}
\text{EBVFAT\%} &= 200 * [(391+50*0.5) / (10093+1000*0.5) - (391 / 1E4)] \\
&= 200 * [(391+25) / (10093+500) - (0.03874)] \\
&= 200 * [0.03927 - 0.03874] \\
&= 200 * 0.00053 \\
&= 0.11
\end{aligned}$$

$$\begin{aligned}
\text{EBVPROT\%} &= 200 * [(324+40*0.5) / (10093+1000*0.5) - (324 / 1E4)] \\
&= 200 * [(324+20) / (10093+500) - (0.03210)] \\
&= 200 * [0.03247 - 0.03210]
\end{aligned}$$

$$= 200 * 0.00037$$

$$= 0.07$$