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 Conversion Factors For Production Traits. Source: INTERBULL 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	428.90	1.3240	12.700	1.5660	12.200	1.2750	0.5476
JER	DEU	199.88	1.0186	21.695	0.9918	10.998	0.9156	0.7569
JER	DFS	-5627.50	57.1850	-148.000	1.9990	-137.500	1.5780	0.8281
JER	GBR	-205.70	2.6690	2.400	2.6270	-4.000	2.6390	0.7225
JER	IRL	767.80	2.3820	-14.000	3.4810	9.800	2.0560	0.5476
JER	ITA	123.27	0.9574	17.572	0.9056	8.807	0.8150	0.7225
JER	NLD	2385.03	0.8832	47.647	0.9273	59.342	0.8368	0.7744
JER	NZL	598.00	1.4850	18.800	1.2550	16.500	1.3550	0.4761
JER	USA	726.10	0.8690	23.500	0.9540	21.400	0.8880	0.7921
JER	ZAF	289.60	1.4620	7.700	1.6170	9.000	1.3980	0.6889

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 Conversion Factors For SCS Traits. Source: INTERBULL 1708
 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	0.0178	0.8464
JER	NLD	-2.112	0.0529	0.8464
JER	NZL	3.000	0.4890	0.7744
JER	USA	-0.100	1.0500	0.8281
JER	ZAF	2.900	0.0090	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1708
 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			-56.012	0.4983	0.28
JER FEET AND LEGS		AUS OVERALL FEET & LEG			-52.717	0.4810	
JER MAMMARY SYSTEM		AUS OVERALL UDDER SCORE			-69.766	0.6450	
JER STATURE		AUS STATURE			-103.295	0.9851	

JER CHEST WIDTH	AUS CHEST WIDTH	-85.804	0.8676
JER BODY DEPTH	AUS BODY DEPTH	-89.789	0.9072
JER PIN WIDTH	AUS PIN WIDTH	-94.046	0.9356
JER RUMP ANGLE	AUS RUMP ANGLE	-77.701	0.7831
JER FOOT ANGLE	AUS FOOT ANGLE	-56.566	0.5315
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-51.846	0.5485
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-37.886	0.3299
JER UDDER DEPTH	AUS UDDER DEPTH	-94.498	0.8978
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-105.346	1.0566
JER FORE ATTACHMENT	AUS FORE UDDER	-63.854	0.5858
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-91.854	0.9092
JER TEAT LENGTH	AUS TEAT LENGTH	-84.187	0.8323
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-105.493	1.0091
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-104.629	1.0523
JER ANGULARITY	AUS ANGULARITY	-79.094	0.7505

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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	-35.542	0.3074	0.55
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-36.845	0.3378	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-39.989	0.3754	
JER STATURE	DFS STATURE	-55.516	0.5121	
JER CHEST WIDTH	DFS CHEST WIDTH	-34.590	0.3255	
JER BODY DEPTH	DFS BODY DEPTH	-38.035	0.3532	
JER PIN WIDTH	DFS RUMP WIDTH	-55.747	0.4905	
JER RUMP ANGLE	DFS RUMP ANGLE	-44.531	0.4598	
JER FOOT ANGLE	DFS FOOT ANGLE	-39.181	0.3849	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-39.959	0.4311	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-44.558	0.3875	
JER UDDER DEPTH	DFS UDDER DEPTH	-36.539	0.3654	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-46.140	0.4457	
JER FORE ATTACHMENT	DFS FORE UDDER	-36.818	0.3469	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-49.150	0.4540	
JER TEAT LENGTH	DFS TEAT LENGTH	-35.774	0.3575	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-56.847	0.5608	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-50.709	0.4706	
JER ANGULARITY	DFS ANGULARITY	-45.049	0.4205	

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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		-3.230	3.2864	
JER MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-3.231	3.9988	
JER STATURE		GBR STATURE		-6.658	5.9597	
JER CHEST WIDTH		GBR CHEST WIDTH		-0.286	3.6476	
JER BODY DEPTH		GBR BODY DEPTH		-0.496	3.1210	
JER PIN WIDTH		GBR RUMP WIDTH		-3.391	4.4436	
JER RUMP ANGLE		GBR RUMP ANGLE		-0.713	4.4561	
JER FOOT ANGLE		GBR FOOT ANGLE		-1.658	3.2490	
JER REAR LEGS SIDE VIEW		GBR REAR LEG SET		1.599	2.7653	
JER UDDER DEPTH		GBR UDDER DEPTH		-1.228	3.0594	
JER MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-1.384	3.3466	
JER FORE ATTACHMENT		GBR FORE UDDER		-1.161	3.0408	
JER TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-1.358	4.0360	
JER TEAT LENGTH		GBR TEAT LENGTH		-0.861	3.6261	
JER REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-4.093	4.9700	
JER ANGULARITY		GBR ANGULARITY		-5.713	4.8191	

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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		-4.396	6.3726	0.66
JER FEET AND LEGS		ITA OVERALL FEET & LEG		-2.898	3.9016	
JER STATURE		ITA STATURE		-3.938	5.1249	
JER CHEST WIDTH		ITA CHEST WIDTH		-0.034	4.1739	
JER BODY DEPTH		ITA BODY DEPTH		-0.042	3.0885	
JER PIN WIDTH		ITA RUMP WIDTH		-2.648	3.6902	
JER RUMP ANGLE		ITA RUMP ANGLE		0.508	3.7172	
JER FOOT ANGLE		ITA FOOT ANGLE		-1.180	2.3219	
JER REAR LEGS SIDE VIEW		ITA REAR LEG SET		1.852	3.0497	
JER REAR LEG REAR VIEW		ITA REAR LEG REAR VIEW		-3.248	4.4772	
JER UDDER DEPTH		ITA UDDER DEPTH		-2.289	3.3120	
JER MEDIAN SUSPENSORY		ITA MEDIAN SUSPENSORY		-0.585	3.0807	
JER FORE ATTACHMENT		ITA FORE UDDER		-3.274	2.9769	

JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.770	3.1633
JER TEAT LENGTH	ITA TEAT LENGTH	-0.184	2.9001
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.609	4.1787
JER ANGULARITY	ITA ANGULARITY	-2.595	4.5682

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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	-160.218	1.7675	0.62		
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-86.241	0.7400			
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-114.416	1.2152			
JER STATURE	NLD STATURE	-91.680	1.2559			
JER CHEST WIDTH	NLD CHEST WIDTH	-111.025	1.4102			
JER BODY DEPTH	NLD BODY DEPTH	-128.573	1.5564			
JER PIN WIDTH	NLD RUMP WIDTH	-110.579	1.3771			
JER RUMP ANGLE	NLD RUMP ANGLE	-102.256	1.0881			
JER FOOT ANGLE	NLD FOOT ANGLE	-88.132	0.9322			
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-152.121	1.4925			
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-115.221	0.9978			
JER UDDER DEPTH	NLD UDDER DEPTH	-97.376	1.0882			
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-97.572	1.0171			
JER FORE ATTACHMENT	NLD FORE UDDER	-92.324	0.9467			
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-109.846	1.1147			
JER TEAT LENGTH	NLD TEAT LENGTH	-111.023	1.0571			
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-121.927	1.2438			
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-125.980	1.3129			
JER ANGULARITY	NLD ANGULARITY	-116.151	1.3236			

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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	-9.325	11.3191	0.35
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-8.829	9.9696	
JER STATURE	NZL STATURE	5.012	15.2269	
JER CHEST WIDTH	NZL CHEST WIDTH	5.907	12.0356	
JER BODY DEPTH	NZL BODY DEPTH	4.220	11.2791	
JER PIN WIDTH	NZL RUMP WIDTH	4.335	19.0171	
JER RUMP ANGLE	NZL RUMP ANGLE	1.551	17.0940	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.697	34.1481	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-3.172	9.5392	
JER FORE ATTACHMENT	NZL FORE UDDER	-6.117	9.4282	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-4.483	18.4842	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-9.209	13.3575	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-1.451	15.1035	

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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)	-3.378	5.2585	0.62		
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.545	5.8014			
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-2.527	8.7467			
JER STATURE	USA STATURE	-0.980	4.8702			
JER CHEST WIDTH	USA STRENGTH	-0.906	7.0088			
JER BODY DEPTH	USA BODY DEPTH	0.350	5.1170			
JER PIN WIDTH	USA THURL WIDTH	0.136	7.1321			
JER RUMP ANGLE	USA RUMP ANGLE	1.267	4.8432			
JER FOOT ANGLE	USA FOOT ANGLE	-2.049	7.1710			
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	1.995	7.9817			
JER REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-2.966	-7.9684			
JER UDDER DEPTH	USA UDDER DEPTH	-3.140	3.3937			
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.467	7.2011			
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-2.864	4.1187			
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.624	5.3386			
JER TEAT LENGTH	USA TEAT LENGTH	0.065	5.8180			
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.623	5.3401			
JER REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.007	4.2674			
JER ANGULARITY	USA DAIRY FORM	-0.196	5.9107			

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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		-68.078		0.6425
JER CHEST WIDTH		ZAF CHEST WIDTH		-62.774		0.6175
JER BODY DEPTH		ZAF BODY DEPTH		-49.604		0.4971
JER PIN WIDTH		ZAF RUMP WIDTH		-55.829		0.5472
JER RUMP ANGLE		ZAF RUMP ANGLE		-52.745		0.5347
JER FOOT ANGLE		ZAF FOOT ANGLE		-39.427		0.3744
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-32.288		0.3427
JER REAR LEG REAR VIEW		ZAF REAR LEG REAR VIEW		-34.784		0.3062
JER UDDER DEPTH		ZAF UDDER DEPTH		-43.832		0.4125
JER MEDIAN SUSPENSORY		ZAF MEDIAN SUSPENSORY		-49.231		0.4964
JER FORE ATTACHMENT		ZAF FORE UDDER		-42.691		0.3969
JER TEAT PLACEMENT		ZAF FRONT TEAT PLACEMENT		-51.320		0.5072
JER TEAT LENGTH		ZAF TEAT LENGTH		-47.707		0.4767
JER REAR ATTACHMENT HEIGHT		ZAF REAR UDDER HEIGHT		-67.596		0.6391
JER REAR TEAT PLACEMENT		ZAF REAR TEAT PLACEMENT		-56.187		0.5629
JER ANGULARITY		ZAF ANGULARITY		-52.591		0.5066

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2017

BREED	BMILK	BFAT	BPRT
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AYS	7672	318	260
BSW	8289	350	293
CN	5609	247	202
GUE	6821	320	235
JER	6532	329	250
HOL	10090	390	324
MS	6661	257	220

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

EBVFAT% = $200 * [(390+50*0.5)/(10090+1000*0.5)-(390/1E4)]$
= $200 * [(390+25)/(10090+500)-(0.03865)]$
= $200 * [0.03919 - 0.03865]$
= $200 * 0.00054$
= 0.11

EBVPROT% = $200 * [(324+40*0.5)/(10090+1000*0.5)-(324/1E4)]$
= $200 * [(324+20)/(10090+500)-(0.03211)]$
= $200 * [0.03248 - 0.03211]$

$$= 200 * 0.00037$$

$$= 0.07$$