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Conversion Factors For Production Traits. Source: INTERBULL 1612  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	454.70	1.3430	14.800	1.5230	13.500	1.2900	0.5625
JER	DEU	260.86	1.0297	24.630	1.0044	13.017	0.9338	0.7396
JER	DFS	-5449.80	56.0730	-145.500	1.9880	-134.300	1.5650	0.8281
JER	GBR	-230.60	2.7650	8.300	2.8540	-2.600	2.8600	0.7225
JER	IRL	765.00	2.2870	-12.200	3.5030	10.600	1.9230	0.5476
JER	ITA	162.28	0.9446	19.892	0.8864	10.439	0.8128	0.7225
JER	NLD	2294.37	0.8762	46.502	0.9160	58.514	0.8348	0.7744
JER	NZL	594.20	1.4420	21.000	1.2720	17.200	1.3050	0.4761
JER	USA	811.80	0.8760	27.100	0.9470	24.300	0.8870	0.8100
JER	ZAF	320.90	1.5270	9.800	1.6490	10.200	1.5000	0.6889

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Conversion Factors For SCS Traits. Source: INTERBULL 1612  
 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	4.400	-0.0160	0.8281
JER	GBR	2.964	0.0179	0.8464
JER	NLD	-1.533	0.0476	0.8464
JER	NZL	3.000	0.4920	0.7569
JER	USA	-0.200	1.0690	0.8281
JER	ZAF	2.900	0.0090	0.7921

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Conversion Factors For Type. Source = INTERBULL MACE 1612  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=AUS

c a n b t r r e a e i d t	c f o o u r n t t r r a y i 2 t	a v a l u e	b v a l u e	t c o r r 2
JER CONFORMATION	AUS GENERAL APPEARANCE	-55.645	0.4936	0.27
JER FEET AND LEGS	AUS OVERALL FEET & LEG	-51.869	0.4722	
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-75.707	0.7026	
JER STATURE	AUS STATURE	-99.015	0.9460	
JER CHEST WIDTH	AUS CHEST WIDTH	-93.707	0.9500	
JER BODY DEPTH	AUS BODY DEPTH	-88.016	0.8923	
JER PIN WIDTH	AUS PIN WIDTH	-93.212	0.9312	

JER RUMP ANGLE	AUS RUMP ANGLE	-79.810	0.8049
JER FOOT ANGLE	AUS FOOT ANGLE	-58.116	0.5456
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-49.031	0.5190
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-46.639	0.4141
JER UDDER DEPTH	AUS UDDER DEPTH	-92.917	0.8831
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-108.116	1.0832
JER FORE ATTACHMENT	AUS FORE UDDER	-64.919	0.6004
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-89.570	0.8853
JER TEAT LENGTH	AUS TEAT LENGTH	-79.322	0.7825
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-102.721	0.9869
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-104.217	1.0492
JER ANGULARITY	AUS ANGULARITY	-88.088	0.8370

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 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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

  

JER CONFORMATION	DFS CONFORMATION	-34.768	0.2995	0.53
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-35.524	0.3237	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-39.159	0.3684	
JER STATURE	DFS STATURE	-53.456	0.4967	
JER CHEST WIDTH	DFS CHEST WIDTH	-33.971	0.3210	
JER BODY DEPTH	DFS BODY DEPTH	-38.357	0.3551	
JER PIN WIDTH	DFS RUMP WIDTH	-55.587	0.4932	
JER RUMP ANGLE	DFS RUMP ANGLE	-44.193	0.4570	
JER FOOT ANGLE	DFS FOOT ANGLE	-38.395	0.3766	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-39.986	0.4321	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-43.434	0.3751	
JER UDDER DEPTH	DFS UDDER DEPTH	-36.190	0.3610	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-46.010	0.4485	
JER FORE ATTACHMENT	DFS FORE UDDER	-35.824	0.3374	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-47.732	0.4446	
JER TEAT LENGTH	DFS TEAT LENGTH	-35.093	0.3531	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-55.866	0.5495	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-49.337	0.4605	
JER ANGULARITY	DFS ANGULARITY	-44.108	0.4131	

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Conversion Factors For Type. Source = INTERBULL MACE 1612  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=GBR

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 FEET AND LEGS	GBR OVERALL FEET & LEG	-3.272	3.2600
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.115	3.9699
JER STATURE	GBR STATURE	-6.089	5.8672
JER CHEST WIDTH	GBR CHEST WIDTH	-0.234	3.6153
JER BODY DEPTH	GBR BODY DEPTH	-0.440	3.0520
JER PIN WIDTH	GBR RUMP WIDTH	-3.176	4.4360
JER RUMP ANGLE	GBR RUMP ANGLE	-0.520	4.3951
JER FOOT ANGLE	GBR FOOT ANGLE	-1.665	3.1818
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.560	2.7722
JER UDDER DEPTH	GBR UDDER DEPTH	-1.207	3.0013
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.158	3.3889
JER FORE ATTACHMENT	GBR FORE UDDER	-1.146	2.9553
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.253	3.9354
JER TEAT LENGTH	GBR TEAT LENGTH	-0.609	3.6048
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-3.779	4.9053
JER ANGULARITY	GBR ANGULARITY	-5.397	4.6494

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Conversion Factors For Type. Source = INTERBULL MACE 1612  
 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	-4.176	6.1894	0.66
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.929	3.8317	
JER STATURE	ITA STATURE	-3.499	4.9742	
JER CHEST WIDTH	ITA CHEST WIDTH	0.008	4.1900	
JER BODY DEPTH	ITA BODY DEPTH	-0.116	3.0465	
JER PIN WIDTH	ITA RUMP WIDTH	-2.396	3.6595	
JER RUMP ANGLE	ITA RUMP ANGLE	0.595	3.6416	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.195	2.3172	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.898	3.0395	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-3.479	4.2540	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.191	3.2786	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.355	3.0574	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.186	2.8835	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.597	3.0270	
JER TEAT LENGTH	ITA TEAT LENGTH	0.022	2.8485	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.383	4.1307	
JER ANGULARITY	ITA ANGULARITY	-2.466	4.4820	

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Conversion Factors For Type. Source = INTERBULL MACE 1612  
 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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
JER CONFORMATION	NLD CONFORMATION		-158.888	1.7533	0.62
JER FEET AND LEGS	NLD OVERALL FEET & LEG		-83.194	0.7120	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE		-110.111	1.1711	
JER STATURE	NLD STATURE		-89.546	1.2326	
JER CHEST WIDTH	NLD CHEST WIDTH		-108.557	1.3787	
JER BODY DEPTH	NLD BODY DEPTH		-128.216	1.5511	
JER PIN WIDTH	NLD RUMP WIDTH		-107.332	1.3391	
JER RUMP ANGLE	NLD RUMP ANGLE		-102.327	1.0905	
JER FOOT ANGLE	NLD FOOT ANGLE		-86.413	0.9115	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET		-152.741	1.4980	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW		-112.313	0.9723	
JER UDDER DEPTH	NLD UDDER DEPTH		-94.851	1.0597	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY		-97.587	1.0191	
JER FORE ATTACHMENT	NLD FORE UDDER		-89.302	0.9155	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT		-109.112	1.1084	
JER TEAT LENGTH	NLD TEAT LENGTH		-105.599	1.0078	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT		-119.939	1.2258	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT		-119.369	1.2436	
JER ANGULARITY	NLD ANGULARITY		-114.019	1.2988	

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 Conversion Factors For Type. Source = INTERBULL MACE 1612  
 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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
JER CONFORMATION	NZL OVERALL CONFORMATION		-8.961	11.1798	0.36
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE		-8.527	9.8606	
JER STATURE	NZL STATURE		5.391	14.9078	
JER CHEST WIDTH	NZL CHEST WIDTH		6.025	11.9721	
JER BODY DEPTH	NZL BODY DEPTH		4.210	11.1743	
JER PIN WIDTH	NZL RUMP WIDTH		4.709	19.0713	
JER RUMP ANGLE	NZL RUMP ANGLE		1.642	17.0305	

JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.682	33.8461
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-2.837	9.7945
JER FORE ATTACHMENT	NZL FORE UDDER	-5.843	9.0945
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-4.367	18.1477
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-8.614	13.1539
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-1.175	14.8429

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Conversion Factors For Type. Source = INTERBULL MACE 1612  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

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	USA PTA TYPE (FINAL SCORE)	-3.090	5.1684	0.62
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.513	4.5918	
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-2.264	6.9102	
JER STATURE	USA STATURE	-0.578	4.7578	
JER CHEST WIDTH	USA STRENGTH	-0.839	6.9678	
JER BODY DEPTH	USA BODY DEPTH	0.310	5.0854	
JER PIN WIDTH	USA THURL WIDTH	0.319	7.0622	
JER RUMP ANGLE	USA RUMP ANGLE	1.440	4.8167	
JER FOOT ANGLE	USA FOOT ANGLE	-2.048	6.8611	
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	2.067	7.9489	
JER REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-3.022	-7.5522	
JER UDDER DEPTH	USA UDDER DEPTH	-2.982	3.3867	
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.619	7.2488	
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-2.679	4.0127	
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.426	5.2634	
JER TEAT LENGTH	USA TEAT LENGTH	0.318	5.7192	
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.314	5.2337	
JER REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.466	5.0209	
JER ANGULARITY	USA DAIRY FORM	0.154	5.8241	

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Conversion Factors For Type. Source = INTERBULL MACE 1612  
 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 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 STATURE	ZAF STATURE	-68.949	0.6538
JER CHEST WIDTH	ZAF CHEST WIDTH	-62.116	0.6116
JER BODY DEPTH	ZAF BODY DEPTH	-53.260	0.5298
JER PIN WIDTH	ZAF RUMP WIDTH	-55.427	0.5449
JER RUMP ANGLE	ZAF RUMP ANGLE	-50.759	0.5178
JER FOOT ANGLE	ZAF FOOT ANGLE	-38.324	0.3626
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-32.307	0.3428
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-33.970	0.2980
JER UDDER DEPTH	ZAF UDDER DEPTH	-43.230	0.4070
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-48.962	0.4966
JER FORE ATTACHMENT	ZAF FORE UDDER	-41.296	0.3837
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-56.171	0.5548
JER TEAT LENGTH	ZAF TEAT LENGTH	-45.336	0.4540
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-58.369	0.5542
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-57.047	0.5712
JER ANGULARITY	ZAF ANGULARITY	-50.275	0.4805

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CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2016

BREED	BMILK	BFAT	BPRT
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AYS	7597	314	257
BSW	8157	342	287
CN	5698	247	203
GUE	6765	320	234
JER	6462	323	247
HOL	9994	384	320
MS	6326	244	210

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (384 + 50 * .5) / (9994 + 1000 * .5) - (384 / 9994) ] \\
 &= 200 * [ (384 + 25) / (9994 + 500) - (0.03842) ] \\
 &= 200 * [ 0.03897 - 0.03842 ] \\
 &= 200 * 0.00055 \\
 &= 0.11
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (320 + 40 * .5) / (9994 + 1000 * .5) - (320 / 9994) ] \\
 &= 200 * [ (320 + 20) / (9994 + 500) - (0.03202) ] \\
 &= 200 * [ 0.03240 - 0.03202 ] \\
 &= 200 * 0.00038 \\
 &= 0.08
 \end{aligned}$$