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 Conversion Factors For Production Traits. Source: INTERBULL 1704  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	425.40	1.3300	12.500	1.6060	11.900	1.3010	0.5476
JER	DEU	195.60	1.0322	21.640	1.0192	10.870	0.9400	0.7569
JER	DFS	-5649.60	57.4330	-150.000	2.0100	-138.700	1.5880	0.8281
JER	GBR	-191.30	2.6940	2.700	2.7360	-3.700	2.7170	0.7225
JER	IRL	725.30	2.3670	-15.500	3.4840	8.500	2.0990	0.5476
JER	ITA	126.09	0.9623	17.498	0.9158	8.679	0.8232	0.7225
JER	NLD	2334.29	0.8642	47.305	0.9209	58.250	0.8209	0.7744
JER	NZL	599.20	1.5060	18.500	1.2700	16.200	1.3610	0.4761
JER	USA	773.50	0.8850	23.800	0.9590	22.000	0.8980	0.7921
JER	ZAF	297.90	1.4670	7.800	1.6270	9.100	1.4130	0.6889

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 Conversion Factors For SCS Traits. Source: INTERBULL 1704  
 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	2.965	0.0177	0.8464
JER	NLD	-1.405	0.0461	0.8464
JER	NZL	3.000	0.4920	0.7744
JER	USA	-0.100	1.0560	0.8281
JER	ZAF	2.900	0.0090	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1704  
 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	-54.988	0.4885	0.28
JER FEET AND LEGS	AUS OVERALL FEET & LEG	-54.204	0.4947	
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-68.987	0.6387	
JER STATURE	AUS STATURE	-103.020	0.9821	

JER CHEST WIDTH	AUS CHEST WIDTH	-85.220	0.8634
JER BODY DEPTH	AUS BODY DEPTH	-90.667	0.9161
JER PIN WIDTH	AUS PIN WIDTH	-93.355	0.9307
JER RUMP ANGLE	AUS RUMP ANGLE	-79.451	0.8008
JER FOOT ANGLE	AUS FOOT ANGLE	-56.198	0.5263
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-51.540	0.5450
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-37.251	0.3212
JER UDDER DEPTH	AUS UDDER DEPTH	-94.226	0.8954
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-106.417	1.0671
JER FORE ATTACHMENT	AUS FORE UDDER	-62.868	0.5776
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-91.329	0.9048
JER TEAT LENGTH	AUS TEAT LENGTH	-83.696	0.8273
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-111.252	1.0677
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-104.516	1.0515
JER ANGULARITY	AUS ANGULARITY	-80.436	0.7630

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Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=DFS

c	c	f			
a	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	-35.357	0.3051	0.55
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-36.563	0.3334	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-39.775	0.3738	
JER STATURE	DFS STATURE	-55.144	0.5095	
JER CHEST WIDTH	DFS CHEST WIDTH	-34.372	0.3255	
JER BODY DEPTH	DFS BODY DEPTH	-38.071	0.3545	
JER PIN WIDTH	DFS RUMP WIDTH	-56.033	0.4945	
JER RUMP ANGLE	DFS RUMP ANGLE	-44.746	0.4612	
JER FOOT ANGLE	DFS FOOT ANGLE	-38.863	0.3808	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-39.964	0.4306	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-45.256	0.3944	
JER UDDER DEPTH	DFS UDDER DEPTH	-36.654	0.3664	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-46.490	0.4500	
JER FORE ATTACHMENT	DFS FORE UDDER	-36.519	0.3447	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-49.057	0.4544	
JER TEAT LENGTH	DFS TEAT LENGTH	-35.596	0.3580	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-56.768	0.5587	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-50.763	0.4714	
JER ANGULARITY	DFS ANGULARITY	-45.621	0.4244	

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Conversion Factors For Type. Source = INTERBULL MACE 1704  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=GBR

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 FEET AND LEGS	GBR OVERALL FEET & LEG	-3.303	3.3112	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.166	3.9974	
JER STATURE	GBR STATURE	-6.601	5.9727	
JER CHEST WIDTH	GBR CHEST WIDTH	-0.280	3.6628	
JER BODY DEPTH	GBR BODY DEPTH	-0.477	3.1079	
JER PIN WIDTH	GBR RUMP WIDTH	-3.335	4.5156	
JER RUMP ANGLE	GBR RUMP ANGLE	-0.656	4.4198	
JER FOOT ANGLE	GBR FOOT ANGLE	-1.662	3.2310	
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.565	2.7624	
JER UDDER DEPTH	GBR UDDER DEPTH	-1.162	3.0410	
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.442	3.3798	
JER FORE ATTACHMENT	GBR FORE UDDER	-1.184	2.9992	
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.292	4.0138	
JER TEAT LENGTH	GBR TEAT LENGTH	-0.835	3.6712	
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-3.985	4.9341	
JER ANGULARITY	GBR ANGULARITY	-5.788	4.8354	

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Conversion Factors For Type. Source = INTERBULL MACE 1704  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=ITA

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	ITA CONFORMATION	-4.326	6.2589	0.66
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.949	3.8690	
JER STATURE	ITA STATURE	-3.868	5.1498	
JER CHEST WIDTH	ITA CHEST WIDTH	0.002	4.2106	
JER BODY DEPTH	ITA BODY DEPTH	-0.055	3.0688	
JER PIN WIDTH	ITA RUMP WIDTH	-2.600	3.7357	
JER RUMP ANGLE	ITA RUMP ANGLE	0.487	3.7120	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.226	2.2670	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.805	3.0366	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-3.297	4.5339	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.186	3.2990	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.597	3.0691	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.212	2.9411	

JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.733	3.1260
JER TEAT LENGTH	ITA TEAT LENGTH	-0.130	2.8755
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.445	4.1554
JER ANGULARITY	ITA ANGULARITY	-2.712	4.6368

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Conversion Factors For Type. Source = INTERBULL MACE 1704  
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	-160.277	1.7683	0.62
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-84.436	0.7229	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-112.915	1.1984	
JER STATURE	NLD STATURE	-91.989	1.2618	
JER CHEST WIDTH	NLD CHEST WIDTH	-109.690	1.3937	
JER BODY DEPTH	NLD BODY DEPTH	-126.718	1.5339	
JER PIN WIDTH	NLD RUMP WIDTH	-112.804	1.4057	
JER RUMP ANGLE	NLD RUMP ANGLE	-103.463	1.1012	
JER FOOT ANGLE	NLD FOOT ANGLE	-85.794	0.9068	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-150.080	1.4718	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-116.627	1.0097	
JER UDDER DEPTH	NLD UDDER DEPTH	-96.893	1.0836	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-97.469	1.0151	
JER FORE ATTACHMENT	NLD FORE UDDER	-91.835	0.9418	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-110.057	1.1176	
JER TEAT LENGTH	NLD TEAT LENGTH	-110.896	1.0561	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-120.107	1.2253	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-124.041	1.2936	
JER ANGULARITY	NLD ANGULARITY	-120.056	1.3688	

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Conversion Factors For Type. Source = INTERBULL MACE 1704  
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	-9.285	11.2693	0.35
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-8.703	9.9103	
JER STATURE	NZL STATURE	5.058	15.1920	
JER CHEST WIDTH	NZL CHEST WIDTH	5.934	12.0884	
JER BODY DEPTH	NZL BODY DEPTH	4.253	11.2860	
JER PIN WIDTH	NZL RUMP WIDTH	4.557	19.2490	
JER RUMP ANGLE	NZL RUMP ANGLE	1.554	17.1484	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.660	34.0306	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-3.153	9.6174	
JER FORE ATTACHMENT	NZL FORE UDDER	-6.047	9.3411	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-4.437	18.5025	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-8.990	13.2521	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-1.408	15.0870	

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Conversion Factors For Type. Source = INTERBULL MACE 1704  
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	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	USA PTA TYPE (FINAL SCORE)	-3.346	5.2198	0.62
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.582	5.7420	
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-2.490	8.6421	
JER STATURE	USA STATURE	-0.914	4.8658	
JER CHEST WIDTH	USA STRENGTH	-0.875	7.0320	
JER BODY DEPTH	USA BODY DEPTH	0.284	5.0804	
JER PIN WIDTH	USA THURL WIDTH	0.179	7.1845	
JER RUMP ANGLE	USA RUMP ANGLE	1.320	4.8488	
JER FOOT ANGLE	USA FOOT ANGLE	-2.054	7.0645	
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	2.013	7.8909	
JER REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-3.069	-7.9484	
JER UDDER DEPTH	USA UDDER DEPTH	-3.046	3.4082	
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.273	7.2188	
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-2.819	4.0865	
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.543	5.3408	
JER TEAT LENGTH	USA TEAT LENGTH	0.083	5.8042	
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.530	5.2985	
JER REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.031	4.2455	
JER ANGULARITY	USA DAIRY FORM	-0.178	5.9189	

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Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=ZAF

c a n b t r r e a e i d t	c o u n t r y 2	f o r r a i t 2	a v l u e	b v l u e	t c o r r 2
JER STATURE	ZAF STATURE		-68.692	0.6476	
JER CHEST WIDTH	ZAF CHEST WIDTH		-62.707	0.6176	
JER BODY DEPTH	ZAF BODY DEPTH		-47.633	0.4707	
JER PIN WIDTH	ZAF RUMP WIDTH		-56.585	0.5558	
JER RUMP ANGLE	ZAF RUMP ANGLE		-52.261	0.5311	
JER FOOT ANGLE	ZAF FOOT ANGLE		-38.892	0.3689	
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET		-32.354	0.3426	
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW		-35.473	0.3133	
JER UDDER DEPTH	ZAF UDDER DEPTH		-43.276	0.4078	
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY		-49.596	0.4999	
JER FORE ATTACHMENT	ZAF FORE UDDER		-41.902	0.3891	
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT		-53.289	0.5266	
JER TEAT LENGTH	ZAF TEAT LENGTH		-48.335	0.4816	
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT		-73.005	0.6939	
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT		-56.325	0.5637	
JER ANGULARITY	ZAF ANGULARITY		-53.000	0.5101	

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CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2017

BREED	BMILK	BFAT	BPRT
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AYS	7670	318	259
BSW	8317	350	293
CN	5598	245	200
GUE	6801	319	235
JER	6521	328	250
HOL	10087	390	324
MS	6855	266	226

$$\text{EBVFAT\%} = 200 * [ (\text{BFAT} + \text{EBVFAT} * 0.5) / (\text{BMILK} + \text{EBVMILK} * 0.5) - (\text{BFAT} / \text{BMILK}) ]$$
$$\text{EBVPROT\%} = 200 * [ (\text{BPRT} + \text{EBVPRT} * 0.5) / (\text{BMILK} + \text{EBVMILK} * 0.5) - (\text{BPRT} / \text{BMILK}) ]$$

EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (390 + 50 * 0.5) / (10087 + 1000 * 0.5) - (390 / 1E4) ] \\ &= 200 * [ (390 + 25) / (10087 + 500) - (0.03866) ] \\ &= 200 * [ 0.03920 - 0.03866 ] \\ &= 200 * 0.00054 \\ &= 0.11 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [ (324 + 40 * 0.5) / (10087 + 1000 * 0.5) - (324 / 1E4) ] \\ &= 200 * [ (324 + 20) / (10087 + 500) - (0.03212) ] \\ &= 200 * [ 0.03249 - 0.03212 ] \end{aligned}$$

$$= 200 * 0.00037$$

$$= 0.07$$