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 Conversion Factors For Production Traits. Source: INTERBULL 1804
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	395.70	1.2800	10.700	1.6360	11.200	1.2870	0.5329
JER	CHE	-16.58	1.5785	22.036	1.4564	8.042	1.4777	0.7056
JER	DEU	210.14	1.0168	21.231	0.9912	11.576	0.9167	0.7396
JER	DFS	-5778.00	58.3060	-155.400	2.0640	-142.500	1.6250	0.8281
JER	GBR	-231.40	2.6580	2.000	2.4660	-5.700	2.6840	0.7056
JER	IRL	586.10	2.2550	-14.300	3.4240	8.600	1.7410	0.5625
JER	ITA	93.28	0.9838	15.245	0.9279	7.644	0.8408	0.7225
JER	NLD	2295.30	0.8674	44.575	0.9258	57.958	0.8350	0.7744
JER	NZL	561.70	1.4520	18.100	1.3170	16.500	1.3490	0.4761
JER	USA	671.60	0.8660	19.800	0.9510	19.300	0.8830	0.7921
JER	ZAF	249.80	1.4930	5.400	1.6510	7.400	1.4540	0.6889

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 Conversion Factors For SCS Traits. Source: INTERBULL 1804
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	3.700	-0.0060	0.7744
JER	CHE	1.351	0.0169	0.7921
JER	DFS	4.400	-0.0160	0.8281
JER	GBR	2.971	0.0179	0.8281
JER	NLD	-2.252	0.0543	0.8464
JER	NZL	3.000	0.4890	0.7744
JER	USA	-0.200	1.0670	0.8281
JER	ZAF	2.900	0.0090	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1804
 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		-62.033	0.5534	0.29
JER FEET AND LEGS		AUS OVERALL FEET & LEG		-48.400	0.4347	

JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-73.425	0.6761
JER STATURE	AUS STATURE	-99.668	0.9453
JER CHEST WIDTH	AUS CHEST WIDTH	-91.001	0.9204
JER BODY DEPTH	AUS BODY DEPTH	-88.198	0.8917
JER PIN WIDTH	AUS PIN WIDTH	-93.902	0.9331
JER RUMP ANGLE	AUS RUMP ANGLE	-78.631	0.7910
JER FOOT ANGLE	AUS FOOT ANGLE	-61.155	0.5811
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-57.938	0.6062
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-40.437	0.3511
JER UDDER DEPTH	AUS UDDER DEPTH	-96.164	0.9144
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-106.254	1.0627
JER FORE ATTACHMENT	AUS FORE UDDER	-70.921	0.6545
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-95.844	0.9472
JER TEAT LENGTH	AUS TEAT LENGTH	-87.746	0.8683
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-106.046	1.0125
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-106.673	1.0708
JER ANGULARITY	AUS ANGULARITY	-81.184	0.7675

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Conversion Factors For Type. Source = INTERBULL MACE 1804
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	-77.119	0.7447	0.79		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-56.453	0.5373			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.149	0.5378			
JER STATURE	CHE STATURE	-62.028	0.5960			
JER CHEST WIDTH	CHE CHEST WIDTH	-57.953	0.5767			
JER BODY DEPTH	CHE BODY DEPTH	-39.248	0.3867			
JER PIN WIDTH	CHE RUMP WIDTH	-52.907	0.5076			
JER RUMP ANGLE	CHE RUMP ANGLE	-41.852	0.4465			
JER FOOT ANGLE	CHE FOOT ANGLE	-36.233	0.3427			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.975	0.5725			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-44.948	0.4144			
JER UDDER DEPTH	CHE UDDER DEPTH	-50.620	0.5104			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-56.074	0.5596			
JER FORE ATTACHMENT	CHE FORE UDDER	-45.627	0.4420			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-56.589	0.5541			
JER TEAT LENGTH	CHE TEAT LENGTH	-43.792	0.4299			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-55.609	0.5431			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-52.958	0.5204			
JER ANGULARITY	CHE ANGULARITY	-61.031	0.6277			

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Conversion Factors For Type. Source = INTERBULL MACE 1804

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	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	DFS CONFORMATION			-36.652	0.3161	0.58
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-36.467	0.3337	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-40.468	0.3761	
JER STATURE	DFS STATURE			-55.905	0.5148	
JER CHEST WIDTH	DFS CHEST WIDTH			-37.278	0.3478	
JER BODY DEPTH	DFS BODY DEPTH			-38.618	0.3575	
JER PIN WIDTH	DFS RUMP WIDTH			-55.894	0.4896	
JER RUMP ANGLE	DFS RUMP ANGLE			-45.541	0.4696	
JER FOOT ANGLE	DFS FOOT ANGLE			-39.858	0.3916	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-40.957	0.4406	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-43.310	0.3747	
JER UDDER DEPTH	DFS UDDER DEPTH			-36.885	0.3708	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-46.577	0.4439	
JER FORE ATTACHMENT	DFS FORE UDDER			-37.176	0.3500	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-49.856	0.4597	
JER TEAT LENGTH	DFS TEAT LENGTH			-36.841	0.3688	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-56.712	0.5577	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-51.462	0.4738	
JER ANGULARITY	DFS ANGULARITY			-46.928	0.4407	

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 Conversion Factors For Type. Source = INTERBULL MACE 1804
 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			-3.378	3.4254	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-3.447	4.3021	
JER STATURE	GBR STATURE			-7.062	6.0861	
JER CHEST WIDTH	GBR CHEST WIDTH			-0.239	3.8885	
JER BODY DEPTH	GBR BODY DEPTH			-0.761	3.2026	
JER PIN WIDTH	GBR RUMP WIDTH			-3.449	4.4390	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.986	4.5577	
JER FOOT ANGLE	GBR FOOT ANGLE			-1.575	3.2940	

JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.348	2.8815
JER UDDER DEPTH	GBR UDDER DEPTH	-1.115	3.1667
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.788	3.4231
JER FORE ATTACHMENT	GBR FORE UDDER	-1.107	3.2018
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.507	4.1723
JER TEAT LENGTH	GBR TEAT LENGTH	-0.891	3.7674
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-4.059	5.0679
JER ANGULARITY	GBR ANGULARITY	-5.937	5.1611

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Conversion Factors For Type. Source = INTERBULL MACE 1804
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	-4.733	6.6428	0.66
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.964	4.0124	
JER STATURE	ITA STATURE	-4.166	5.1033	
JER CHEST WIDTH	ITA CHEST WIDTH	0.104	4.2176	
JER BODY DEPTH	ITA BODY DEPTH	-0.038	3.0332	
JER PIN WIDTH	ITA RUMP WIDTH	-2.789	3.6610	
JER RUMP ANGLE	ITA RUMP ANGLE	0.331	3.8127	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.107	2.3868	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.711	3.2425	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-3.022	4.9490	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.378	3.3698	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.929	3.1375	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.410	3.0789	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.997	3.2925	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.184	3.0855	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.703	4.2044	
JER ANGULARITY	ITA ANGULARITY	-2.568	4.8104	

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Conversion Factors For Type. Source = INTERBULL MACE 1804
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 d	i t	y 2	i t	u e	u e	r 2
JER CONFORMATION		NLD CONFORMATION		-161.073	1.7713	0.61
JER FEET AND LEGS		NLD OVERALL FEET & LEG		-83.844	0.7181	
JER MAMMARY SYSTEM		NLD OVERALL UDDER SCORE		-116.613	1.2285	
JER STATURE		NLD STATURE		-92.408	1.2584	
JER CHEST WIDTH		NLD CHEST WIDTH		-117.690	1.4939	
JER BODY DEPTH		NLD BODY DEPTH		-129.359	1.5616	
JER PIN WIDTH		NLD RUMP WIDTH		-110.204	1.3695	
JER RUMP ANGLE		NLD RUMP ANGLE		-105.503	1.1196	
JER FOOT ANGLE		NLD FOOT ANGLE		-88.888	0.9417	
JER REAR LEGS SIDE VIEW		NLD REAR LEG SET		-154.518	1.5174	
JER REAR LEG REAR VIEW		NLD REAR LEG REAR VIEW		-115.291	1.0007	
JER UDDER DEPTH		NLD UDDER DEPTH		-99.751	1.1134	
JER MEDIAN SUSPENSORY		NLD MEDIAN SUSPENSORY		-97.575	1.0130	
JER FORE ATTACHMENT		NLD FORE UDDER		-94.954	0.9693	
JER TEAT PLACEMENT		NLD FRONT TEAT PLACEMENT		-112.131	1.1340	
JER TEAT LENGTH		NLD TEAT LENGTH		-117.496	1.1197	
JER REAR ATTACHMENT HEIGHT		NLD REAR UDDER HEIGHT		-120.870	1.2317	
JER REAR TEAT PLACEMENT		NLD REAR TEAT PLACEMENT		-128.286	1.3332	
JER ANGULARITY		NLD ANGULARITY		-116.041	1.3194	

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Conversion Factors For Type. Source = INTERBULL MACE 1804
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

b r e e d	c n t r a i t	c o n t r y 2	f o r e i g n c o u n t r y	a v e r a g e	b v a r i a n c e	t c o r r e c t i o n
JER CONFORMATION		NZL OVERALL CONFORMATION		-9.928	11.9173	0.35
JER MAMMARY SYSTEM		NZL OVERALL UDDER SCORE		-9.831	10.7885	
JER STATURE		NZL STATURE		4.672	15.1712	
JER CHEST WIDTH		NZL CHEST WIDTH		6.410	12.5236	
JER BODY DEPTH		NZL BODY DEPTH		4.176	11.1371	
JER PIN WIDTH		NZL RUMP WIDTH		4.236	18.5883	
JER RUMP ANGLE		NZL RUMP ANGLE		1.512	17.3781	
JER REAR LEGS SIDE VIEW		NZL REAR LEG SET		0.355	34.6542	
JER MEDIAN SUSPENSORY		NZL MEDIAN SUSPENSORY		-3.563	9.8846	
JER FORE ATTACHMENT		NZL FORE UDDER		-6.309	9.8857	
JER FRONT TEAT PLACEMENT		NZL FRONT TEAT PLACEMENT		-4.817	19.1012	
JER REAR ATTACHMENT HEIGHT		NZL REAR UDDER HEIGHT		-9.558	13.5521	
JER REAR TEAT PLACEMENT		NZL REAR TEAT PLACEMENT		-1.824	15.0526	

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Conversion Factors For Type. Source = INTERBULL MACE 1804
Converted Canadian Proof = A + (B* Foreign Proof)

Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	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		USA PTA TYPE (FINAL SCORE)		-3.917	5.4396	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-2.646	5.8094	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-3.043	9.0061	
JER STATURE		USA STATURE		-1.451	4.8327	
JER CHEST WIDTH		USA STRENGTH		-0.933	7.2863	
JER BODY DEPTH		USA BODY DEPTH		0.220	5.0753	
JER PIN WIDTH		USA THURL WIDTH		0.002	7.1366	
JER RUMP ANGLE		USA RUMP ANGLE		1.025	4.9783	
JER FOOT ANGLE		USA FOOT ANGLE		-2.107	7.1437	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.776	8.0600	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.714	-7.9338	
JER UDDER DEPTH		USA UDDER DEPTH		-3.371	3.3851	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		0.120	7.1178	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-3.255	4.2058	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.934	5.3915	
JER TEAT LENGTH		USA TEAT LENGTH		-0.035	5.9660	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-1.996	5.4533	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		-0.444	4.2657	
JER ANGULARITY		USA DAIRY FORM		-0.627	6.0924	

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Conversion Factors For Type. Source = INTERBULL MACE 1804

Converted Canadian Proof = A + (B* Foreign Proof)

Converted Proof Reliability = TCORR2*Foreign Reliability

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		-67.185	0.6301	
JER CHEST WIDTH		ZAF CHEST WIDTH		-64.908	0.6395	
JER BODY DEPTH		ZAF BODY DEPTH		-47.837	0.4722	
JER PIN WIDTH		ZAF RUMP WIDTH		-55.967	0.5470	
JER RUMP ANGLE		ZAF RUMP ANGLE		-53.686	0.5504	
JER FOOT ANGLE		ZAF FOOT ANGLE		-40.251	0.3833	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-33.443	0.3525	
JER REAR LEG REAR VIEW		ZAF REAR LEG REAR VIEW		-35.152	0.3112	
JER UDDER DEPTH		ZAF UDDER DEPTH		-44.838	0.4232	

JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-49.057	0.4921
JER FORE ATTACHMENT	ZAF FORE UDDER	-43.653	0.4057
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-55.431	0.5434
JER TEAT LENGTH	ZAF TEAT LENGTH	-49.569	0.4947
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-58.021	0.5646
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-57.206	0.5699
JER ANGULARITY	ZAF ANGULARITY	-54.286	0.5223

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2018

BREED	BMILK	BFAT	BPRT
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AYS	7805	325	264
BSW	8505	360	301
CN	5915	253	208
GUE	6546	306	226
JER	6660	336	255
HOL	10222	399	329
MS	6812	269	227

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(399 + 50 * 0.5) / (10222 + 1000 * 0.5) - (399 / 1E4)] \\
 &= 200 * [(399 + 25) / (10222 + 500) - (0.03903)] \\
 &= 200 * [0.03954 - 0.03903] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(329 + 40 * 0.5) / (10222 + 1000 * 0.5) - (329 / 1E4)] \\
 &= 200 * [(329 + 20) / (10222 + 500) - (0.03219)] \\
 &= 200 * [0.03255 - 0.03219] \\
 &= 200 * 0.00036 \\
 &= 0.07
 \end{aligned}$$