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 Conversion Factors For Production Traits. Source: INTERBULL 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	390.70	1.2770	10.600	1.6450	11.000	1.2860	0.5329
JER	CHE	-1.77	1.5900	22.691	1.4315	8.555	1.4544	0.7056
JER	DEU	212.47	1.0225	21.649	1.0000	11.724	0.9218	0.7396
JER	DFS	-5768.70	58.5790	-154.700	2.0800	-142.100	1.6380	0.8281
JER	GBR	-210.00	2.6960	5.200	2.3810	-4.800	2.6940	0.7056
JER	IRL	599.70	2.2750	-13.300	3.3450	9.300	1.8280	0.5625
JER	ITA	90.53	0.9826	15.183	0.9298	7.688	0.8378	0.7225
JER	NLD	2231.36	0.8432	44.795	0.9332	57.608	0.8287	0.7744
JER	NZL	589.00	1.4660	18.700	1.3340	17.100	1.3730	0.4761
JER	USA	659.50	0.8580	19.300	0.9550	18.900	0.8860	0.7921
JER	ZAF	247.70	1.5000	5.300	1.6580	7.300	1.4650	0.6889

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 Conversion Factors For SCS Traits. Source: INTERBULL 1808
 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	1.383	0.0166	0.7921
JER	DFS	4.300	-0.0150	0.8281
JER	GBR	2.973	0.0178	0.8281
JER	NLD	-2.282	0.0546	0.8464
JER	NZL	3.000	0.4870	0.7744
JER	USA	-0.100	1.0510	0.8281
JER	ZAF	2.900	0.0090	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1808
 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			-61.384	0.5471	0.29
JER FEET AND LEGS		AUS OVERALL FEET & LEG			-56.109	0.5167	

JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-72.978	0.6717
JER STATURE	AUS STATURE	-99.071	0.9390
JER CHEST WIDTH	AUS CHEST WIDTH	-91.435	0.9243
JER BODY DEPTH	AUS BODY DEPTH	-87.938	0.8890
JER PIN WIDTH	AUS PIN WIDTH	-93.851	0.9339
JER RUMP ANGLE	AUS RUMP ANGLE	-79.807	0.8020
JER FOOT ANGLE	AUS FOOT ANGLE	-69.532	0.6705
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-57.934	0.6051
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-40.125	0.3468
JER UDDER DEPTH	AUS UDDER DEPTH	-96.893	0.9218
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-106.241	1.0622
JER FORE ATTACHMENT	AUS FORE UDDER	-73.313	0.6793
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-95.207	0.9404
JER TEAT LENGTH	AUS TEAT LENGTH	-87.606	0.8684
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-106.536	1.0174
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-105.739	1.0609
JER ANGULARITY	AUS ANGULARITY	-80.382	0.7605

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	-77.857	0.7516	0.79		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-56.968	0.5428			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.926	0.5456			
JER STATURE	CHE STATURE	-59.721	0.5723			
JER CHEST WIDTH	CHE CHEST WIDTH	-53.479	0.5332			
JER BODY DEPTH	CHE BODY DEPTH	-38.759	0.3825			
JER PIN WIDTH	CHE RUMP WIDTH	-54.149	0.5204			
JER RUMP ANGLE	CHE RUMP ANGLE	-38.805	0.4166			
JER FOOT ANGLE	CHE FOOT ANGLE	-36.697	0.3473			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.717	0.5677			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-44.548	0.4104			
JER UDDER DEPTH	CHE UDDER DEPTH	-52.168	0.5273			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-56.838	0.5668			
JER FORE ATTACHMENT	CHE FORE UDDER	-45.513	0.4427			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-57.836	0.5648			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.377	0.4452			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-54.156	0.5306			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-52.769	0.5169			
JER ANGULARITY	CHE ANGULARITY	-58.722	0.6022			

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Conversion Factors For Type. Source = INTERBULL MACE 1808

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			-36.214	0.3122	0.58
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-36.246	0.3327	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-40.467	0.3765	
JER STATURE	DFS STATURE			-55.631	0.5143	
JER CHEST WIDTH	DFS CHEST WIDTH			-37.151	0.3480	
JER BODY DEPTH	DFS BODY DEPTH			-38.761	0.3580	
JER PIN WIDTH	DFS RUMP WIDTH			-55.745	0.4897	
JER RUMP ANGLE	DFS RUMP ANGLE			-45.382	0.4688	
JER FOOT ANGLE	DFS FOOT ANGLE			-39.707	0.3911	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.059	0.4384	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-42.848	0.3732	
JER UDDER DEPTH	DFS UDDER DEPTH			-37.101	0.3739	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-46.713	0.4432	
JER FORE ATTACHMENT	DFS FORE UDDER			-36.906	0.3476	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-49.698	0.4595	
JER TEAT LENGTH	DFS TEAT LENGTH			-37.039	0.3713	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-56.722	0.5564	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-51.492	0.4738	
JER ANGULARITY	DFS ANGULARITY			-46.229	0.4374	

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 Conversion Factors For Type. Source = INTERBULL MACE 1808
 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			-3.305	3.3669	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-3.533	4.2960	
JER STATURE	GBR STATURE			-7.150	6.0926	
JER CHEST WIDTH	GBR CHEST WIDTH			-0.260	3.8671	
JER BODY DEPTH	GBR BODY DEPTH			-0.850	3.2270	
JER PIN WIDTH	GBR RUMP WIDTH			-3.475	4.4378	
JER RUMP ANGLE	GBR RUMP ANGLE			-1.001	4.5438	
JER FOOT ANGLE	GBR FOOT ANGLE			-1.521	3.2862	

JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.197	2.8658
JER UDDER DEPTH	GBR UDDER DEPTH	-1.128	3.2245
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.892	3.4045
JER FORE ATTACHMENT	GBR FORE UDDER	-1.166	3.1651
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.586	4.1461
JER TEAT LENGTH	GBR TEAT LENGTH	-0.781	3.7581
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-4.069	4.9891
JER ANGULARITY	GBR ANGULARITY	-5.887	5.1117

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	-4.792	6.4924	0.66
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.849	3.9132	
JER STATURE	ITA STATURE	-4.249	5.0861	
JER CHEST WIDTH	ITA CHEST WIDTH	0.059	4.1857	
JER BODY DEPTH	ITA BODY DEPTH	-0.118	3.0429	
JER PIN WIDTH	ITA RUMP WIDTH	-2.861	3.6496	
JER RUMP ANGLE	ITA RUMP ANGLE	0.295	3.8296	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.055	2.3831	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.599	3.2485	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-2.938	4.9112	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.429	3.4086	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.054	3.1159	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.452	3.0705	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-3.096	3.2834	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.206	3.1008	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.656	4.1044	
JER ANGULARITY	ITA ANGULARITY	-2.527	4.7863	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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		-159.226	1.7486	0.61
JER FEET AND LEGS		NLD OVERALL FEET & LEG		-84.805	0.7274	
JER MAMMARY SYSTEM		NLD OVERALL UDDER SCORE		-116.407	1.2257	
JER STATURE		NLD STATURE		-92.722	1.2627	
JER CHEST WIDTH		NLD CHEST WIDTH		-115.907	1.4690	
JER BODY DEPTH		NLD BODY DEPTH		-128.134	1.5440	
JER PIN WIDTH		NLD RUMP WIDTH		-111.140	1.3809	
JER RUMP ANGLE		NLD RUMP ANGLE		-104.890	1.1121	
JER FOOT ANGLE		NLD FOOT ANGLE		-87.919	0.9314	
JER REAR LEGS SIDE VIEW		NLD REAR LEG SET		-152.526	1.4959	
JER REAR LEG REAR VIEW		NLD REAR LEG REAR VIEW		-115.153	0.9998	
JER UDDER DEPTH		NLD UDDER DEPTH		-100.602	1.1231	
JER MEDIAN SUSPENSORY		NLD MEDIAN SUSPENSORY		-97.083	1.0066	
JER FORE ATTACHMENT		NLD FORE UDDER		-94.449	0.9636	
JER TEAT PLACEMENT		NLD FRONT TEAT PLACEMENT		-111.963	1.1317	
JER TEAT LENGTH		NLD TEAT LENGTH		-118.259	1.1281	
JER REAR ATTACHMENT HEIGHT		NLD REAR UDDER HEIGHT		-118.870	1.2095	
JER REAR TEAT PLACEMENT		NLD REAR TEAT PLACEMENT		-127.786	1.3261	
JER ANGULARITY		NLD ANGULARITY		-116.136	1.3154	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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 u n t y 2	f o r e i g n t	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		-9.975	11.7954	0.35
JER MAMMARY SYSTEM		NZL OVERALL UDDER SCORE		-9.981	10.7088	
JER STATURE		NZL STATURE		4.528	15.1812	
JER CHEST WIDTH		NZL CHEST WIDTH		6.314	12.5035	
JER BODY DEPTH		NZL BODY DEPTH		4.121	11.1401	
JER PIN WIDTH		NZL RUMP WIDTH		4.255	18.5466	
JER RUMP ANGLE		NZL RUMP ANGLE		1.475	17.3445	
JER REAR LEGS SIDE VIEW		NZL REAR LEG SET		0.255	34.5238	
JER MEDIAN SUSPENSORY		NZL MEDIAN SUSPENSORY		-3.793	9.8926	
JER FORE ATTACHMENT		NZL FORE UDDER		-6.370	9.8248	
JER FRONT TEAT PLACEMENT		NZL FRONT TEAT PLACEMENT		-4.931	19.0787	
JER REAR ATTACHMENT HEIGHT		NZL REAR UDDER HEIGHT		-9.499	13.4092	
JER REAR TEAT PLACEMENT		NZL REAR TEAT PLACEMENT		-1.918	15.0829	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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)	-4.018	5.4066	0.62	
JER FEET AND LEGS	USA	OVERALL FEET & LEG	-2.567	5.7315		
JER MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-3.153	9.0008		
JER STATURE	USA	STATURE	-1.540	4.8204		
JER CHEST WIDTH	USA	STRENGTH	-0.924	7.3282		
JER BODY DEPTH	USA	BODY DEPTH	0.207	5.1288		
JER PIN WIDTH	USA	THURL WIDTH	-0.037	7.1513		
JER RUMP ANGLE	USA	RUMP ANGLE	1.015	4.9619		
JER FOOT ANGLE	USA	FOOT ANGLE	-2.079	7.1335		
JER REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	1.622	8.0229		
JER REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-2.646	-7.8110		
JER UDDER DEPTH	USA	UDDER DEPTH	-3.443	3.3939		
JER MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.137	7.1020		
JER FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	-3.319	4.1985		
JER FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.997	5.3907		
JER TEAT LENGTH	USA	TEAT LENGTH	-0.029	5.9888		
JER REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-2.059	5.4101		
JER REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	-0.480	4.2765		
JER ANGULARITY	USA	DAIRY FORM	-0.778	6.0557		

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	-67.389	0.6311		
JER CHEST WIDTH	ZAF	CHEST WIDTH	-64.766	0.6376		
JER BODY DEPTH	ZAF	BODY DEPTH	-47.890	0.4722		
JER PIN WIDTH	ZAF	RUMP WIDTH	-55.896	0.5458		
JER RUMP ANGLE	ZAF	RUMP ANGLE	-53.532	0.5486		
JER FOOT ANGLE	ZAF	FOOT ANGLE	-39.938	0.3805		
JER REAR LEGS SIDE VIEW	ZAF	REAR LEG SET	-33.270	0.3497		
JER REAR LEG REAR VIEW	ZAF	REAR LEG REAR VIEW	-35.010	0.3104		
JER UDDER DEPTH	ZAF	UDDER DEPTH	-45.156	0.4260		

JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-49.074	0.4910
JER FORE ATTACHMENT	ZAF FORE UDDER	-43.565	0.4044
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-55.073	0.5399
JER TEAT LENGTH	ZAF TEAT LENGTH	-49.843	0.4983
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-57.646	0.5609
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-57.152	0.5688
JER ANGULARITY	ZAF ANGULARITY	-53.867	0.5179

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2018

BREED	BMILK	BFAT	BPRT
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AYS	7802	325	263
BSW	8550	359	301
CN	5896	253	207
GUE	6583	305	225
JER	6643	336	255
HOL	10228	399	329
MS	6829	270	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(399 + 50 * 0.5) / (10228 + 1000 * 0.5) - (399 / 1E4)] \\
 &= 200 * [(399 + 25) / (10228 + 500) - (0.03901)] \\
 &= 200 * [0.03952 - 0.03901] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(329 + 40 * 0.5) / (10228 + 1000 * 0.5) - (329 / 1E4)] \\
 &= 200 * [(329 + 20) / (10228 + 500) - (0.03217)] \\
 &= 200 * [0.03253 - 0.03217] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$