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 Conversion Factors For Production Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	86.80	1.2610	-4.600	1.6890	-0.900	1.3430	0.4761
JER	CHE	14.56	1.5659	20.057	1.3821	7.253	1.3810	0.6400
JER	DEU	175.54	0.8859	25.981	1.0438	13.454	0.9040	0.7921
JER	DFS	-5872.90	59.3360	-163.300	2.1330	-143.200	1.6600	0.7921
JER	GBR	-45.50	2.8460	6.700	2.8950	-0.200	2.7100	0.6724
JER	IRL	448.80	2.3690	-22.400	3.4150	-0.100	1.8990	0.5329
JER	ITA	-73.25	0.9961	9.529	0.9129	3.219	0.8675	0.7396
JER	NLD	2331.97	0.8981	42.173	0.9056	57.254	0.8528	0.7396
JER	NZL	183.40	1.3480	2.100	1.1870	2.300	1.1210	0.3969
JER	USA	787.10	0.7510	24.500	0.9150	23.600	0.8160	0.7921
JER	ZAF	137.25	1.4002	10.217	1.5136	6.166	1.4523	0.6561

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 Conversion Factors For SCS Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.400	-19.0750	0.6084
JER	CHE	61.248	0.4125	0.7744
JER	DFS	61.300	0.4450	0.8281
JER	GBR	100.400	-0.4870	0.8464
JER	ITA	24.449	0.7485	0.7569
JER	NLD	-22.517	1.3023	0.8281
JER	NZL	97.600	-10.0730	0.4761
JER	USA	196.500	-31.9610	0.8100
JER	ZAF	101.093	-0.2489	0.7225

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 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		a	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 AUS GENERAL APPEARANCE -4.225 3.6527 0.30

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-40.402	0.3833
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-5.005	5.0250
JER STATURE	AUS STATURE	-5.687	11.0095
JER CHEST WIDTH	AUS CHEST WIDTH	1.179	15.0190
JER BODY DEPTH	AUS BODY DEPTH	1.207	12.8606
JER PIN WIDTH	AUS PIN WIDTH	-0.596	15.3474
JER RUMP ANGLE	AUS RUMP ANGLE	0.677	14.3992
JER FOOT ANGLE	AUS FOOT ANGLE	-3.306	17.2155
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	3.049	22.9954
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-4.556	11.8721
JER UDDER DEPTH	AUS UDDER DEPTH	-5.918	14.1346
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.630	13.3325
JER FORE ATTACHMENT	AUS FORE UDDER	-6.141	11.4099
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.773	12.7815
JER TEAT LENGTH	AUS TEAT LENGTH	0.135	16.9253
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-4.143	12.3960
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.550	15.9920
JER ANGULARITY	AUS ANGULARITY	-3.571	12.8310

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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	-58.389	0.5583	0.71		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-40.504	0.3848			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-53.732	0.5209			
JER STATURE	CHE STATURE	-59.914	0.5709			
JER CHEST WIDTH	CHE CHEST WIDTH	-46.455	0.4679			
JER BODY DEPTH	CHE BODY DEPTH	-37.609	0.3756			
JER PIN WIDTH	CHE RUMP WIDTH	-47.049	0.4508			
JER RUMP ANGLE	CHE RUMP ANGLE	-42.244	0.4416			
JER FOOT ANGLE	CHE FOOT ANGLE	-43.901	0.4123			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-58.951	0.6048			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-39.676	0.3657			
JER UDDER DEPTH	CHE UDDER DEPTH	-51.351	0.5126			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-57.857	0.5680			
JER FORE ATTACHMENT	CHE FORE UDDER	-46.068	0.4329			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-62.910	0.6139			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.380	0.4464			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-50.698	0.4921			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-58.079	0.5676			
JER ANGULARITY	CHE ANGULARITY	61.044	-0.6340			

Conversion Factors For Type. Source = INTERBULL MACE 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	c	c	f			
	a	o	o		b	t
b	n	u	r	v	v	c
r	t	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			-27.825	0.2373	0.40
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-28.203	0.2603	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-42.995	0.4103	
JER STATURE	DFS STATURE			-57.231	0.5412	
JER CHEST WIDTH	DFS CHEST WIDTH			-35.000	0.3386	
JER BODY DEPTH	DFS BODY DEPTH			-38.861	0.3564	
JER PIN WIDTH	DFS RUMP WIDTH			-52.141	0.4858	
JER RUMP ANGLE	DFS RUMP ANGLE			-47.279	0.4839	
JER FOOT ANGLE	DFS FOOT ANGLE			-43.966	0.4271	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.063	0.4454	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-41.882	0.3670	
JER UDDER DEPTH	DFS UDDER DEPTH			-38.941	0.4047	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-47.260	0.4319	
JER FORE ATTACHMENT	DFS FORE UDDER			-40.872	0.3875	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-50.222	0.4706	
JER TEAT LENGTH	DFS TEAT LENGTH			-36.431	0.3617	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-55.884	0.5364	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-49.951	0.4543	
JER ANGULARITY	DFS ANGULARITY			-50.661	0.4713	

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o		b	t
b	n	u	r	v	v	c
r	t	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			-1.408	2.4021	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-1.621	3.6327	
JER STATURE	GBR STATURE			-4.838	6.0151	
JER CHEST WIDTH	GBR CHEST WIDTH			0.458	3.2926	
JER BODY DEPTH	GBR BODY DEPTH			0.325	3.1195	
JER PIN WIDTH	GBR RUMP WIDTH			-1.897	4.2029	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.470	4.5735	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.651	3.2682
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.285	2.9515
JER UDDER DEPTH	GBR UDDER DEPTH	-0.438	3.5721
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.231	3.2278
JER FORE ATTACHMENT	GBR FORE UDDER	-1.114	3.2871
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.326	4.3987
JER TEAT LENGTH	GBR TEAT LENGTH	-0.317	3.4545
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.812	4.1433
JER ANGULARITY	GBR ANGULARITY	-4.607	5.0624

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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	-3.727	2.8413	0.50
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.389	2.9269	
JER STATURE	ITA STATURE	-5.824	4.2290	
JER CHEST WIDTH	ITA CHEST WIDTH	-0.073	3.1377	
JER BODY DEPTH	ITA BODY DEPTH	0.002	2.6003	
JER PIN WIDTH	ITA RUMP WIDTH	-3.698	3.6859	
JER RUMP ANGLE	ITA RUMP ANGLE	0.221	3.2699	
JER FOOT ANGLE	ITA FOOT ANGLE	-2.051	3.0876	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.686	2.7445	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-2.879	3.4407	
JER UDDER DEPTH	ITA UDDER DEPTH	-3.032	3.1007	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.373	2.7954	
JER FORE ATTACHMENT	ITA FORE UDDER	-4.150	3.2101	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.337	3.3076	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.486	2.9796	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-3.113	3.4462	
JER ANGULARITY	ITA ANGULARITY	-3.694	4.0493	

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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	i	y	i	u	u	r
d	t	2	t	e	e	2

JER CONFORMATION	NLD CONFORMATION	-115.157	1.2564	0.53
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-79.384	0.7140	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-121.512	1.2722	
JER STATURE	NLD STATURE	-92.469	1.2353	
JER CHEST WIDTH	NLD CHEST WIDTH	-102.553	1.3359	
JER BODY DEPTH	NLD BODY DEPTH	-82.247	0.9977	
JER PIN WIDTH	NLD RUMP WIDTH	-94.857	1.1764	
JER RUMP ANGLE	NLD RUMP ANGLE	-113.786	1.2018	
JER FOOT ANGLE	NLD FOOT ANGLE	-109.381	1.1770	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-159.861	1.5527	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-130.423	1.1835	
JER UDDER DEPTH	NLD UDDER DEPTH	-110.312	1.2479	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-108.011	1.1104	
JER FORE ATTACHMENT	NLD FORE UDDER	-108.418	1.1177	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-109.163	1.1197	
JER TEAT LENGTH	NLD TEAT LENGTH	-117.030	1.1188	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-119.617	1.2125	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-118.590	1.2285	
JER ANGULARITY	NLD ANGULARITY	-91.764	0.9964	

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 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	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	-9.629	9.3508	0.31
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.476	10.3775	
JER STATURE	NZL STATURE	2.726	15.6743	
JER CHEST WIDTH	NZL CHEST WIDTH	5.898	12.3272	
JER BODY DEPTH	NZL BODY DEPTH	3.736	10.1355	
JER PIN WIDTH	NZL RUMP WIDTH	3.581	17.0485	
JER RUMP ANGLE	NZL RUMP ANGLE	1.134	17.2104	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.251	34.7167	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.462	9.4506	
JER FORE ATTACHMENT	NZL FORE UDDER	-7.396	9.6102	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.410	19.4700	
JER TEAT LENGTH	NZL TEAT LENGTH	0.463	9.9421	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.687	11.7736	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.319	14.4407	

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Conversion Factors For Type. Source = INTERBULL MACE 2212
 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	
e	r	t	r	a	a	o
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)		-0.959	4.6668	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.635	2.3500	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.267	5.7793	
JER STATURE		USA STATURE		-0.337	3.7844	
JER CHEST WIDTH		USA STRENGTH		-0.541	5.9816	
JER BODY DEPTH		USA BODY DEPTH		0.208	4.2523	
JER PIN WIDTH		USA THURL WIDTH		-0.166	5.0862	
JER RUMP ANGLE		USA RUMP ANGLE		1.927	4.4109	
JER FOOT ANGLE		USA FOOT ANGLE		-2.165	6.4430	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.936	6.5888	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.500	-5.1099	
JER UDDER DEPTH		USA UDDER DEPTH		-1.771	2.8435	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		-0.012	5.6149	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-1.883	3.5437	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.348	4.5521	
JER TEAT LENGTH		USA TEAT LENGTH		-0.402	4.8123	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-0.540	4.4817	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.544	4.3607	
JER ANGULARITY		USA DAIRY FORM		0.071	5.7701	

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	
e	r	t	r	a	a	o
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
JER STATURE		ZAF STATURE		-69.238	0.6432	
JER CHEST WIDTH		ZAF CHEST WIDTH		-59.434	0.5915	
JER BODY DEPTH		ZAF BODY DEPTH		-46.629	0.4639	
JER PIN WIDTH		ZAF RUMP WIDTH		-54.135	0.5364	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.991	0.5786	
JER FOOT ANGLE		ZAF FOOT ANGLE		-44.328	0.4229	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-33.282	0.3505	

JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-31.373	0.2865
JER UDDER DEPTH	ZAF UDDER DEPTH	-48.247	0.4612
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-50.684	0.5010
JER FORE ATTACHMENT	ZAF FORE UDDER	-46.811	0.4371
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-59.059	0.5834
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.068	0.4623
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-55.919	0.5413
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-62.170	0.6121
JER ANGULARITY	ZAF ANGULARITY	-56.694	0.5485

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2022

BREED	BMILK	BFAT	BPRT
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AYS	8022	335	275
BSW	8509	362	304
CN	5772	250	212
GUE	6832	315	242
JER	7049	363	274
HOL	10836	431	355
MS	7483	287	248

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(431 + 50 * 0.5) / (10836 + 1000 * 0.5) - (431 / 111E3)] \\
 &= 200 * [(431 + 25) / (10836 + 500) - (0.03977)] \\
 &= 200 * [0.04023 - 0.03977] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(355 + 40 * 0.5) / (10836 + 1000 * 0.5) - (355 / 111E3)] \\
 &= 200 * [(355 + 20) / (10836 + 500) - (0.03276)] \\
 &= 200 * [0.03308 - 0.03276] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$