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 Conversion Factors For Production Traits. Source: INTERBULL 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	87.50	1.2690	-4.900	1.6840	-1.000	1.3470	0.4761
JER	CHE	13.62	1.5517	20.730	1.4116	7.603	1.3736	0.6400
JER	DEU	184.72	0.8792	25.846	1.0492	13.442	0.8999	0.7921
JER	DFS	-5884.70	59.0950	-166.600	2.1550	-144.400	1.6560	0.7921
JER	GBR	-73.10	2.8100	5.000	2.8740	-0.600	2.7980	0.6724
JER	IRL	465.50	2.3890	-23.800	3.4830	0.200	1.9860	0.5476
JER	ITA	-47.45	0.9795	10.339	0.9079	3.931	0.8578	0.7569
JER	NLD	2335.62	0.8647	42.720	0.8908	58.790	0.8418	0.7569
JER	NZL	233.20	1.3810	2.900	1.1900	2.400	1.1200	0.4096
JER	USA	802.30	0.7580	25.100	0.9110	24.200	0.8160	0.7921
JER	ZAF	154.00	1.3997	10.193	1.5117	6.217	1.4459	0.6561

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 Conversion Factors For SCS Traits. Source: INTERBULL 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.300	-18.9660	0.6084
JER	CHE	60.299	0.4231	0.7744
JER	DFS	61.200	0.4400	0.8281
JER	GBR	100.300	-0.4840	0.8464
JER	ITA	25.967	0.7336	0.7569
JER	NLD	-18.897	1.2667	0.8281
JER	NZL	97.700	-10.2680	0.4900
JER	USA	195.500	-31.6860	0.8100
JER	ZAF	101.047	-0.2444	0.7225

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

	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 AUS GENERAL APPEARANCE -4.649 3.7220 0.30

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-41.044	0.3895
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-2.832	5.5294
JER STATURE	AUS STATURE	-5.647	10.8381
JER CHEST WIDTH	AUS CHEST WIDTH	1.109	14.9109
JER BODY DEPTH	AUS BODY DEPTH	1.154	12.7975
JER PIN WIDTH	AUS PIN WIDTH	-0.569	15.5237
JER RUMP ANGLE	AUS RUMP ANGLE	0.618	14.2597
JER FOOT ANGLE	AUS FOOT ANGLE	-3.282	16.8546
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	3.006	23.2735
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-4.663	11.5448
JER UDDER DEPTH	AUS UDDER DEPTH	-5.858	14.1197
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.605	13.1612
JER FORE ATTACHMENT	AUS FORE UDDER	-6.173	11.4572
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.920	12.6105
JER TEAT LENGTH	AUS TEAT LENGTH	-0.051	17.2132
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-4.038	12.4894
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.496	16.2225
JER ANGULARITY	AUS ANGULARITY	-3.474	13.2654

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Conversion Factors For Type. Source = INTERBULL MACE 2204
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	r
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	-59.159	0.5666	0.72		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-40.989	0.3899			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-54.115	0.5262			
JER STATURE	CHE STATURE	-61.432	0.5862			
JER CHEST WIDTH	CHE CHEST WIDTH	-46.361	0.4657			
JER BODY DEPTH	CHE BODY DEPTH	-36.291	0.3627			
JER PIN WIDTH	CHE RUMP WIDTH	-51.324	0.4920			
JER RUMP ANGLE	CHE RUMP ANGLE	-41.370	0.4324			
JER FOOT ANGLE	CHE FOOT ANGLE	-43.023	0.4057			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-59.828	0.6122			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-39.316	0.3641			
JER UDDER DEPTH	CHE UDDER DEPTH	-51.854	0.5189			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-58.752	0.5759			
JER FORE ATTACHMENT	CHE FORE UDDER	-47.636	0.4492			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-62.891	0.6130			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.926	0.4498			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-50.046	0.4870			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-58.175	0.5687			
JER ANGULARITY	CHE ANGULARITY	60.777	-0.6267			

Conversion Factors For Type. Source = INTERBULL MACE 2204
 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			-28.134	0.2417	0.41
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-28.480	0.2640	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-42.035	0.4039	
JER STATURE	DFS STATURE			-58.000	0.5453	
JER CHEST WIDTH	DFS CHEST WIDTH			-35.826	0.3448	
JER BODY DEPTH	DFS BODY DEPTH			-38.588	0.3568	
JER PIN WIDTH	DFS RUMP WIDTH			-53.091	0.4914	
JER RUMP ANGLE	DFS RUMP ANGLE			-47.127	0.4800	
JER FOOT ANGLE	DFS FOOT ANGLE			-43.179	0.4239	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.954	0.4483	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-41.075	0.3656	
JER UDDER DEPTH	DFS UDDER DEPTH			-39.119	0.4038	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-46.607	0.4295	
JER FORE ATTACHMENT	DFS FORE UDDER			-41.023	0.3890	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-50.597	0.4753	
JER TEAT LENGTH	DFS TEAT LENGTH			-36.562	0.3647	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-55.949	0.5342	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-49.812	0.4561	
JER ANGULARITY	DFS ANGULARITY			-49.090	0.4647	

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 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			-1.402	2.4564	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-1.545	3.6150	
JER STATURE	GBR STATURE			-4.831	6.0089	
JER CHEST WIDTH	GBR CHEST WIDTH			0.111	3.2852	
JER BODY DEPTH	GBR BODY DEPTH			0.324	3.1241	
JER PIN WIDTH	GBR RUMP WIDTH			-2.119	4.2723	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.416	4.5957	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.615	3.2264
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.152	2.9696
JER UDDER DEPTH	GBR UDDER DEPTH	-0.442	3.5555
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.199	3.1933
JER FORE ATTACHMENT	GBR FORE UDDER	-1.098	3.2765
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.389	4.4272
JER TEAT LENGTH	GBR TEAT LENGTH	-0.419	3.5171
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.643	4.1106
JER ANGULARITY	GBR ANGULARITY	-4.266	5.0023

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Conversion Factors For Type. Source = INTERBULL MACE 2204
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
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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	-3.242	5.0164	0.55		
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.374	2.9844			
JER STATURE	ITA STATURE	-4.697	4.4510			
JER CHEST WIDTH	ITA CHEST WIDTH	0.996	3.2241			
JER BODY DEPTH	ITA BODY DEPTH	0.467	2.5938			
JER PIN WIDTH	ITA RUMP WIDTH	-2.733	3.0616			
JER RUMP ANGLE	ITA RUMP ANGLE	0.509	4.2023			
JER FOOT ANGLE	ITA FOOT ANGLE	-1.483	2.3413			
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.082	2.5594			
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-1.430	4.0918			
JER UDDER DEPTH	ITA UDDER DEPTH	-3.027	3.5691			
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.606	2.6722			
JER FORE ATTACHMENT	ITA FORE UDDER	-3.788	3.3194			
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.609	2.7475			
JER TEAT LENGTH	ITA TEAT LENGTH	-0.524	2.7809			
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.784	3.0257			
JER ANGULARITY	ITA ANGULARITY	-2.809	3.9151			

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Conversion Factors For Type. Source = INTERBULL MACE 2204
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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	a	o	o			
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e	i	y	i	u	u	r
d	t	2	t	e	e	2

JER CONFORMATION	NLD CONFORMATION	-114.881	1.2544	0.53
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-81.652	0.7332	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-122.908	1.2893	
JER STATURE	NLD STATURE	-92.679	1.2377	
JER CHEST WIDTH	NLD CHEST WIDTH	-102.570	1.3327	
JER BODY DEPTH	NLD BODY DEPTH	-80.853	0.9814	
JER PIN WIDTH	NLD RUMP WIDTH	-96.013	1.1893	
JER RUMP ANGLE	NLD RUMP ANGLE	-111.717	1.1802	
JER FOOT ANGLE	NLD FOOT ANGLE	-109.810	1.1781	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-162.020	1.5732	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-133.521	1.2099	
JER UDDER DEPTH	NLD UDDER DEPTH	-110.305	1.2474	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-105.822	1.0891	
JER FORE ATTACHMENT	NLD FORE UDDER	-108.110	1.1131	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-108.850	1.1160	
JER TEAT LENGTH	NLD TEAT LENGTH	-118.861	1.1351	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-121.935	1.2396	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-115.258	1.1966	
JER ANGULARITY	NLD ANGULARITY	-91.015	0.9906	

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 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	-9.404	9.2682	0.31
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.287	10.5031	
JER STATURE	NZL STATURE	2.889	15.8432	
JER CHEST WIDTH	NZL CHEST WIDTH	5.577	12.2729	
JER BODY DEPTH	NZL BODY DEPTH	3.699	10.2177	
JER PIN WIDTH	NZL RUMP WIDTH	3.575	17.3539	
JER RUMP ANGLE	NZL RUMP ANGLE	1.178	17.1660	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.021	35.0413	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.408	9.3309	
JER FORE ATTACHMENT	NZL FORE UDDER	-7.343	9.7577	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.477	19.6971	
JER TEAT LENGTH	NZL TEAT LENGTH	-0.021	9.9008	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.477	11.7666	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.402	14.6468	

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Conversion Factors For Type. Source = INTERBULL MACE 2204
 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)		-0.838	4.6446	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.499	2.3401	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.164	5.4847	
JER STATURE		USA STATURE		-0.168	3.8347	
JER CHEST WIDTH		USA STRENGTH		-0.519	5.9446	
JER BODY DEPTH		USA BODY DEPTH		0.215	4.2355	
JER PIN WIDTH		USA THURL WIDTH		-0.180	5.2041	
JER RUMP ANGLE		USA RUMP ANGLE		1.979	4.3698	
JER FOOT ANGLE		USA FOOT ANGLE		-2.064	6.2600	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.923	6.5124	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.425	-5.1183	
JER UDDER DEPTH		USA UDDER DEPTH		-1.674	2.8181	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		0.014	5.5550	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-1.834	3.5234	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.308	4.5429	
JER TEAT LENGTH		USA TEAT LENGTH		-0.423	4.7704	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-0.297	4.4673	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.564	4.2963	
JER ANGULARITY		USA DAIRY FORM		0.293	5.5783	

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 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		-70.302	0.6541	
JER CHEST WIDTH		ZAF CHEST WIDTH		-60.650	0.6019	
JER BODY DEPTH		ZAF BODY DEPTH		-47.110	0.4684	
JER PIN WIDTH		ZAF RUMP WIDTH		-55.053	0.5440	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.398	0.5727	
JER FOOT ANGLE		ZAF FOOT ANGLE		-43.594	0.4165	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-33.439	0.3508	

JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-31.402	0.2879
JER UDDER DEPTH	ZAF UDDER DEPTH	-47.904	0.4573
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-50.656	0.5010
JER FORE ATTACHMENT	ZAF FORE UDDER	-47.025	0.4399
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-59.442	0.5866
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.397	0.4646
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-56.546	0.5490
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-62.598	0.6167
JER ANGULARITY	ZAF ANGULARITY	-55.975	0.5446

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2022

BREED	BMILK	BFAT	BPRT
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AYS	8014	334	275
BSW	8483	359	303
CN	5938	257	216
GUE	6927	318	245
JER	7049	364	274
HOL	10834	430	355
MS	7485	288	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

$$\begin{aligned}
 \text{EBVFAT\%} &= 200 * [(430 + 50 * 0.5) / (10834 + 1000 * 0.5) - (430 / 1113)] \\
 &= 200 * [(430 + 25) / (10834 + 500) - (0.03969)] \\
 &= 200 * [0.04014 - 0.03969] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 \text{EBVPROT\%} &= 200 * [(355 + 40 * 0.5) / (10834 + 1000 * 0.5) - (355 / 1113)] \\
 &= 200 * [(355 + 20) / (10834 + 500) - (0.03277)] \\
 &= 200 * [0.03309 - 0.03277] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$