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 Conversion Factors For Production Traits. Source: INTERBULL 2104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	99.20	1.2730	-3.900	1.7100	-0.400	1.3310	0.4900
JER	CHE	-29.09	1.5916	21.102	1.4423	6.483	1.4113	0.6724
JER	DEU	174.37	0.8814	24.334	1.0602	12.697	0.9081	0.7921
JER	DFS	-5948.50	59.9040	-169.300	2.1910	-146.400	1.6760	0.8100
JER	GBR	-111.10	2.7260	4.500	2.7060	-1.800	2.6560	0.6724
JER	IRL	466.80	2.3700	-26.400	3.6410	0.400	1.9000	0.5476
JER	ITA	0.42	0.9882	10.658	0.9279	5.147	0.8536	0.7396
JER	NLD	2408.88	0.8743	45.784	0.9222	61.464	0.8555	0.7569
JER	NZL	362.60	1.5310	3.400	1.3220	4.800	1.2160	0.3844
JER	USA	873.70	0.8010	29.000	0.9200	26.600	0.8440	0.7921
JER	ZAF	180.16	1.4034	9.617	1.5538	6.749	1.4613	0.6724

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 Conversion Factors For SCS Traits. Source: INTERBULL 2104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.200	-20.6360	0.6561
JER	CHE	57.223	0.4521	0.7921
JER	DFS	59.800	0.4560	0.8281
JER	GBR	100.400	-0.5010	0.8464
JER	ITA	27.007	0.7314	0.7569
JER	NLD	-32.481	1.4145	0.8464
JER	NZL	97.900	-12.8830	0.5929
JER	USA	196.700	-32.1880	0.8100
JER	ZAF	101.204	-0.2525	0.7396

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 Conversion Factors For Type. Source = INTERBULL MACE 2104
 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	t
b	t	n	t		v	c
r	r	t	r		a	a
e	a	r	a		l	l
e	i	y	i		u	u
d	t	2	t		e	e
JER CONFORMATION		AUS GENERAL APPEARANCE		-6.778	4.6174	0.29

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-53.186	0.4980
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-6.611	5.2992
JER STATURE	AUS STATURE	-5.732	10.9107
JER CHEST WIDTH	AUS CHEST WIDTH	1.017	14.9865
JER BODY DEPTH	AUS BODY DEPTH	0.878	12.9500
JER PIN WIDTH	AUS PIN WIDTH	-0.688	15.2422
JER RUMP ANGLE	AUS RUMP ANGLE	0.636	14.4994
JER FOOT ANGLE	AUS FOOT ANGLE	-2.975	15.8403
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	2.867	23.4151
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-5.001	11.3892
JER UDDER DEPTH	AUS UDDER DEPTH	-5.617	13.3611
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.522	13.3185
JER FORE ATTACHMENT	AUS FORE UDDER	-5.632	10.7929
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.740	12.1586
JER TEAT LENGTH	AUS TEAT LENGTH	-0.283	16.8665
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-4.067	12.4641
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.413	16.4965
JER ANGULARITY	AUS ANGULARITY	-3.290	14.3473

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	-75.773	0.7248	0.81		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-54.194	0.5103			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.641	0.5365			
JER STATURE	CHE STATURE	-59.325	0.5620			
JER CHEST WIDTH	CHE CHEST WIDTH	-46.341	0.4656			
JER BODY DEPTH	CHE BODY DEPTH	-37.126	0.3713			
JER PIN WIDTH	CHE RUMP WIDTH	-50.977	0.4872			
JER RUMP ANGLE	CHE RUMP ANGLE	-40.779	0.4267			
JER FOOT ANGLE	CHE FOOT ANGLE	-42.421	0.3995			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-57.414	0.5948			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-41.103	0.3798			
JER UDDER DEPTH	CHE UDDER DEPTH	-50.646	0.5097			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-59.723	0.5850			
JER FORE ATTACHMENT	CHE FORE UDDER	-45.638	0.4381			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-60.706	0.5940			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.436	0.4484			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-49.882	0.4829			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-58.969	0.5776			
JER ANGULARITY	CHE ANGULARITY	60.719	-0.6323			

Conversion Factors For Type. Source = INTERBULL MACE 2104
 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		-35.939	0.3072	0.49
JER FEET AND LEGS		DFS OVERALL FEET & LEG		-37.458	0.3396	
JER MAMMARY SYSTEM		DFS OVERALL UDDER SCORE		-43.657	0.4095	
JER STATURE		DFS STATURE		-58.520	0.5443	
JER CHEST WIDTH		DFS CHEST WIDTH		-36.343	0.3476	
JER BODY DEPTH		DFS BODY DEPTH		-38.149	0.3568	
JER PIN WIDTH		DFS RUMP WIDTH		-53.136	0.4855	
JER RUMP ANGLE		DFS RUMP ANGLE		-46.947	0.4792	
JER FOOT ANGLE		DFS FOOT ANGLE		-42.753	0.4153	
JER REAR LEGS SIDE VIEW		DFS REAR LEG SET		-41.655	0.4485	
JER REAR LEG REAR VIEW		DFS REAR LEG REAR VIEW		-40.902	0.3605	
JER UDDER DEPTH		DFS UDDER DEPTH		-39.071	0.3984	
JER MEDIAN SUSPENSORY		DFS MEDIAN SUSPENSORY		-46.274	0.4335	
JER FORE ATTACHMENT		DFS FORE UDDER		-39.545	0.3744	
JER TEAT PLACEMENT		DFS FRONT TEAT PLACEMENT		-50.153	0.4719	
JER TEAT LENGTH		DFS TEAT LENGTH		-36.810	0.3646	
JER REAR ATTACHMENT HEIGHT		DFS REAR UDDER HEIGHT		-55.287	0.5293	
JER REAR TEAT PLACEMENT		DFS REAR TEAT PLACEMENT		-50.668	0.4700	
JER ANGULARITY		DFS ANGULARITY		-48.580	0.4599	

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 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		-2.715	3.2740	
JER MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-2.386	3.9196	
JER STATURE		GBR STATURE		-5.581	6.0332	
JER CHEST WIDTH		GBR CHEST WIDTH		0.156	3.3563	
JER BODY DEPTH		GBR BODY DEPTH		0.305	3.1112	
JER PIN WIDTH		GBR RUMP WIDTH		-2.637	4.0877	
JER RUMP ANGLE		GBR RUMP ANGLE		-0.361	4.7709	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.800	3.2210
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.175	3.0423
JER UDDER DEPTH	GBR UDDER DEPTH	-0.680	3.5238
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.628	3.0292
JER FORE ATTACHMENT	GBR FORE UDDER	-0.925	3.1607
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.643	4.4074
JER TEAT LENGTH	GBR TEAT LENGTH	-0.505	3.6114
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-3.072	4.1886
JER ANGULARITY	GBR ANGULARITY	-4.778	4.9249

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	-4.500	6.9356	0.62
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.446	4.0050	
JER STATURE	ITA STATURE	-4.288	4.7227	
JER CHEST WIDTH	ITA CHEST WIDTH	1.079	3.6562	
JER BODY DEPTH	ITA BODY DEPTH	0.642	2.8574	
JER PIN WIDTH	ITA RUMP WIDTH	-2.618	3.3297	
JER RUMP ANGLE	ITA RUMP ANGLE	0.682	4.5142	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.222	2.6750	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	0.953	3.2113	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-1.693	5.0220	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.597	3.6836	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.485	3.1151	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.221	3.3382	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.399	3.0658	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.245	3.0965	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-3.030	3.6907	
JER ANGULARITY	ITA ANGULARITY	-2.712	4.6770	

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	-153.346	1.6779	0.56
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-99.472	0.8885	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-115.224	1.2238	
JER STATURE	NLD STATURE	-105.169	1.4224	
JER CHEST WIDTH	NLD CHEST WIDTH	-101.072	1.3137	
JER BODY DEPTH	NLD BODY DEPTH	-87.112	1.0616	
JER PIN WIDTH	NLD RUMP WIDTH	-95.529	1.1844	
JER RUMP ANGLE	NLD RUMP ANGLE	-110.518	1.1693	
JER FOOT ANGLE	NLD FOOT ANGLE	-108.513	1.1650	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-162.392	1.5776	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-132.048	1.1962	
JER UDDER DEPTH	NLD UDDER DEPTH	-106.125	1.2023	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-105.941	1.0934	
JER FORE ATTACHMENT	NLD FORE UDDER	-103.950	1.0753	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-107.302	1.1014	
JER TEAT LENGTH	NLD TEAT LENGTH	-117.245	1.1188	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-121.018	1.2343	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-122.879	1.2808	
JER ANGULARITY	NLD ANGULARITY	-99.835	1.0964	

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	-11.270	10.2563	0.32
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.715	10.4034	
JER STATURE	NZL STATURE	3.057	15.8000	
JER CHEST WIDTH	NZL CHEST WIDTH	5.529	11.8282	
JER BODY DEPTH	NZL BODY DEPTH	3.874	10.0663	
JER PIN WIDTH	NZL RUMP WIDTH	3.267	16.6974	
JER RUMP ANGLE	NZL RUMP ANGLE	1.205	17.1525	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.332	31.6342	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.152	8.8022	
JER FORE ATTACHMENT	NZL FORE UDDER	-6.662	9.4473	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.234	19.1239	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.438	11.4192	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.249	14.9263	

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Conversion Factors For Type. Source = INTERBULL MACE 2104

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

country2=USA

	c	c	f	a	b	t
	a	o	o		v	c
	n	u	r		v	c
b	t	n	t	v		
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)	-1.953	5.6825	0.61		
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.484	3.2088			
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-0.911	5.6599			
JER STATURE	USA STATURE	0.146	3.8080			
JER CHEST WIDTH	USA STRENGTH	-0.605	5.9674			
JER BODY DEPTH	USA BODY DEPTH	0.304	4.2701			
JER PIN WIDTH	USA THURL WIDTH	0.087	5.1889			
JER RUMP ANGLE	USA RUMP ANGLE	2.173	4.4028			
JER FOOT ANGLE	USA FOOT ANGLE	-1.913	5.9931			
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	1.964	6.1026			
JER REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-2.620	-4.8965			
JER UDDER DEPTH	USA UDDER DEPTH	-1.331	2.7103			
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.097	5.5859			
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-1.511	3.1542			
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.029	4.4743			
JER TEAT LENGTH	USA TEAT LENGTH	-0.294	4.7344			
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.022	4.4975			
JER REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.685	4.2323			
JER ANGULARITY	USA DAIRY FORM	0.542	5.6543			

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 Conversion Factors For Type. Source = INTERBULL MACE 2104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f	a	b	t
	a	o	o		v	c
	n	u	r		v	c
b	t	n	t	v		
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	-70.948	0.6611			
JER CHEST WIDTH	ZAF CHEST WIDTH	-60.456	0.5986			
JER BODY DEPTH	ZAF BODY DEPTH	-47.606	0.4735			
JER PIN WIDTH	ZAF RUMP WIDTH	-55.432	0.5473			
JER RUMP ANGLE	ZAF RUMP ANGLE	-56.677	0.5761			
JER FOOT ANGLE	ZAF FOOT ANGLE	-43.329	0.4131			
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-33.318	0.3492			
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-30.764	0.2789			

JER UDDER DEPTH	ZAF UDDER DEPTH	-47.243	0.4509
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-50.731	0.5030
JER FORE ATTACHMENT	ZAF FORE UDDER	-45.014	0.4232
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.406	0.5779
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.286	0.4638
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-56.439	0.5472
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-63.484	0.6271
JER ANGULARITY	ZAF ANGULARITY	-56.426	0.5481

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2021

BREED	BMILK	BFAT	BPRT
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AYS	7937	332	272
BSW	8455	361	303
CN	5698	249	206
GUE	7048	329	249
JER	6989	360	271
HOL	10718	424	350
MS	6898	276	229

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(424+50*0.5) / (10718+1000*0.5) - (424/11E3)] \\
 &= 200 * [(424+25) / (10718+500) - (0.03956)] \\
 &= 200 * [0.04002 - 0.03956] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(350+40*0.5) / (10718+1000*0.5) - (350/11E3)] \\
 &= 200 * [(350+20) / (10718+500) - (0.03266)] \\
 &= 200 * [0.03298 - 0.03266] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$