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 Conversion Factors For Production Traits. Source: INTERBULL 2108
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	118.50	1.2870	-3.500	1.7130	0.000	1.3670	0.4900
JER	CHE	-14.76	1.5209	21.022	1.3416	6.927	1.3347	0.6724
JER	DEU	190.94	0.8808	24.467	1.0678	13.091	0.9208	0.7921
JER	DFS	-5919.80	59.7460	-167.100	2.1700	-144.700	1.6680	0.8100
JER	GBR	-96.70	2.8300	5.500	2.7150	-1.000	2.8080	0.6724
JER	IRL	496.90	2.3800	-25.200	3.6500	1.200	1.9010	0.5476
JER	ITA	7.42	0.9830	11.177	0.9129	5.549	0.8499	0.7396
JER	NLD	2388.38	0.8633	45.164	0.9053	61.375	0.8501	0.7569
JER	NZL	370.60	1.5480	3.500	1.3180	5.100	1.2340	0.3844
JER	USA	875.20	0.7970	28.900	0.9150	26.700	0.8460	0.7921
JER	ZAF	191.99	1.4062	9.879	1.5554	7.079	1.4628	0.6724

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 Conversion Factors For SCS Traits. Source: INTERBULL 2108
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.300	-20.2990	0.6561
JER	CHE	58.688	0.4362	0.7921
JER	DFS	60.500	0.4470	0.8281
JER	GBR	100.400	-0.4890	0.8464
JER	ITA	23.035	0.7671	0.7569
JER	NLD	-26.851	1.3541	0.8464
JER	NZL	97.900	-12.6100	0.5929
JER	USA	195.300	-31.6800	0.8100
JER	ZAF	101.165	-0.2484	0.7396

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 Conversion Factors For Type. Source = INTERBULL MACE 2108
 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 -6.752 4.6953 0.29

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-52.919	0.4961
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-6.597	5.3492
JER STATURE	AUS STATURE	-5.582	10.9254
JER CHEST WIDTH	AUS CHEST WIDTH	1.173	15.2664
JER BODY DEPTH	AUS BODY DEPTH	1.111	12.9337
JER PIN WIDTH	AUS PIN WIDTH	-0.544	15.2317
JER RUMP ANGLE	AUS RUMP ANGLE	0.597	14.4590
JER FOOT ANGLE	AUS FOOT ANGLE	-3.123	15.9526
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	2.876	23.3501
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-4.508	11.3091
JER UDDER DEPTH	AUS UDDER DEPTH	-5.610	13.4999
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.445	13.5456
JER FORE ATTACHMENT	AUS FORE UDDER	-5.720	10.9785
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.816	12.3402
JER TEAT LENGTH	AUS TEAT LENGTH	-0.323	16.8376
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-3.955	12.4154
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.410	16.4672
JER ANGULARITY	AUS ANGULARITY	-3.373	14.0749

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Conversion Factors For Type. Source = INTERBULL MACE 2108
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	-73.568	0.7021	0.81		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-52.530	0.4951			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-54.578	0.5254			
JER STATURE	CHE STATURE	-58.854	0.5583			
JER CHEST WIDTH	CHE CHEST WIDTH	-46.522	0.4677			
JER BODY DEPTH	CHE BODY DEPTH	-37.258	0.3731			
JER PIN WIDTH	CHE RUMP WIDTH	-51.328	0.4915			
JER RUMP ANGLE	CHE RUMP ANGLE	-41.031	0.4291			
JER FOOT ANGLE	CHE FOOT ANGLE	-41.946	0.3958			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-57.526	0.5947			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-40.618	0.3749			
JER UDDER DEPTH	CHE UDDER DEPTH	-49.880	0.5014			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-59.164	0.5789			
JER FORE ATTACHMENT	CHE FORE UDDER	-45.394	0.4355			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-61.172	0.5984			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.158	0.4453			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-49.669	0.4801			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-58.570	0.5731			
JER ANGULARITY	CHE ANGULARITY	60.057	-0.6262			

Conversion Factors For Type. Source = INTERBULL MACE 2108
 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	n	t	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			-35.876	0.3077	0.49
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-37.254	0.3393	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-43.226	0.4094	
JER STATURE	DFS STATURE			-57.810	0.5425	
JER CHEST WIDTH	DFS CHEST WIDTH			-36.374	0.3487	
JER BODY DEPTH	DFS BODY DEPTH			-38.536	0.3587	
JER PIN WIDTH	DFS RUMP WIDTH			-52.868	0.4863	
JER RUMP ANGLE	DFS RUMP ANGLE			-46.917	0.4786	
JER FOOT ANGLE	DFS FOOT ANGLE			-42.500	0.4147	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.865	0.4488	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-40.629	0.3597	
JER UDDER DEPTH	DFS UDDER DEPTH			-38.862	0.3997	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-46.460	0.4336	
JER FORE ATTACHMENT	DFS FORE UDDER			-39.446	0.3762	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-50.265	0.4742	
JER TEAT LENGTH	DFS TEAT LENGTH			-36.366	0.3632	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-55.589	0.5329	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-50.654	0.4685	
JER ANGULARITY	DFS ANGULARITY			-48.418	0.4588	

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 Conversion Factors For Type. Source = INTERBULL MACE 2108
 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	n	t	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			-2.660	3.2613	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-2.453	3.8754	
JER STATURE	GBR STATURE			-5.558	6.0096	
JER CHEST WIDTH	GBR CHEST WIDTH			0.220	3.3766	
JER BODY DEPTH	GBR BODY DEPTH			0.298	3.1398	
JER PIN WIDTH	GBR RUMP WIDTH			-2.617	4.0966	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.402	4.7873	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.724	3.2037
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.144	3.0163
JER UDDER DEPTH	GBR UDDER DEPTH	-0.710	3.5051
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.607	3.0300
JER FORE ATTACHMENT	GBR FORE UDDER	-0.936	3.1855
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.666	4.4167
JER TEAT LENGTH	GBR TEAT LENGTH	-0.543	3.5944
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-3.134	4.2060
JER ANGULARITY	GBR ANGULARITY	-4.730	4.8859

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Conversion Factors For Type. Source = INTERBULL MACE 2108
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	-4.495	6.9378	0.62		
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.344	4.0276			
JER STATURE	ITA STATURE	-4.296	4.6935			
JER CHEST WIDTH	ITA CHEST WIDTH	0.994	3.6344			
JER BODY DEPTH	ITA BODY DEPTH	0.583	2.8695			
JER PIN WIDTH	ITA RUMP WIDTH	-2.678	3.3468			
JER RUMP ANGLE	ITA RUMP ANGLE	0.719	4.5514			
JER FOOT ANGLE	ITA FOOT ANGLE	-1.281	2.7000			
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	0.950	3.2154			
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-1.527	5.1014			
JER UDDER DEPTH	ITA UDDER DEPTH	-2.756	3.7310			
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.424	3.1757			
JER FORE ATTACHMENT	ITA FORE UDDER	-3.318	3.3773			
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.456	3.1079			
JER TEAT LENGTH	ITA TEAT LENGTH	-0.366	3.0985			
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.913	3.7470			
JER ANGULARITY	ITA ANGULARITY	-2.559	4.6635			

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Conversion Factors For Type. Source = INTERBULL MACE 2108
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	-145.381	1.5852	0.56
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-101.850	0.9099	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-113.524	1.2045	
JER STATURE	NLD STATURE	-100.350	1.3521	
JER CHEST WIDTH	NLD CHEST WIDTH	-103.921	1.3531	
JER BODY DEPTH	NLD BODY DEPTH	-83.395	1.0146	
JER PIN WIDTH	NLD RUMP WIDTH	-94.563	1.1721	
JER RUMP ANGLE	NLD RUMP ANGLE	-111.085	1.1748	
JER FOOT ANGLE	NLD FOOT ANGLE	-109.368	1.1728	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-164.088	1.5936	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-135.076	1.2249	
JER UDDER DEPTH	NLD UDDER DEPTH	-106.886	1.2098	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-107.244	1.1074	
JER FORE ATTACHMENT	NLD FORE UDDER	-104.463	1.0782	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-107.751	1.1066	
JER TEAT LENGTH	NLD TEAT LENGTH	-116.901	1.1149	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-117.881	1.2001	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-121.464	1.2649	
JER ANGULARITY	NLD ANGULARITY	-93.085	1.0170	

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Conversion Factors For Type. Source = INTERBULL MACE 2108
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	-11.253	10.4693	0.32
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.726	10.3972	
JER STATURE	NZL STATURE	3.088	15.7171	
JER CHEST WIDTH	NZL CHEST WIDTH	5.552	11.8497	
JER BODY DEPTH	NZL BODY DEPTH	3.799	10.0529	
JER PIN WIDTH	NZL RUMP WIDTH	3.351	16.6873	
JER RUMP ANGLE	NZL RUMP ANGLE	1.159	17.1512	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.274	31.6862	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.174	8.8608	
JER FORE ATTACHMENT	NZL FORE UDDER	-6.717	9.5356	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.301	19.2231	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.531	11.4928	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.327	14.8564	

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Conversion Factors For Type. Source = INTERBULL MACE 2108

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

country2=USA

	c	c	f	a	b	t
	a	o	o			
	n	u	r	v	v	c
b	t	n	t	a	a	c
r	r	t	r	l	l	r
e	a	r	a	u	u	r
e	i	y	i	e	e	r
d	t	2	t			2
JER CONFORMATION		USA PTA TYPE (FINAL SCORE)		-1.967	5.6872	0.61
JER FEET AND LEGS		USA OVERALL FEET & LEG		-2.425	3.1885	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.959	5.6582	
JER STATURE		USA STATURE		0.074	3.7822	
JER CHEST WIDTH		USA STRENGTH		-0.537	5.9739	
JER BODY DEPTH		USA BODY DEPTH		0.352	4.2802	
JER PIN WIDTH		USA THURL WIDTH		-0.013	5.1496	
JER RUMP ANGLE		USA RUMP ANGLE		2.150	4.4057	
JER FOOT ANGLE		USA FOOT ANGLE		-1.894	5.9687	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.937	6.0843	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.507	-4.8721	
JER UDDER DEPTH		USA UDDER DEPTH		-1.406	2.7097	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		0.108	5.5808	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-1.551	3.1968	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.080	4.4901	
JER TEAT LENGTH		USA TEAT LENGTH		-0.334	4.7246	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-0.041	4.5006	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.687	4.1879	
JER ANGULARITY		USA DAIRY FORM		0.572	5.6647	

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 Conversion Factors For Type. Source = INTERBULL MACE 2108
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f	a	b	t
	a	o	o			
	n	u	r	v	v	c
b	t	n	t	a	a	c
r	r	t	r	l	l	r
e	a	r	a	u	u	r
e	i	y	i	e	e	r
d	t	2	t			2
JER STATURE		ZAF STATURE		-70.218	0.6547	
JER CHEST WIDTH		ZAF CHEST WIDTH		-60.753	0.6022	
JER BODY DEPTH		ZAF BODY DEPTH		-47.807	0.4754	
JER PIN WIDTH		ZAF RUMP WIDTH		-55.151	0.5447	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.879	0.5781	
JER FOOT ANGLE		ZAF FOOT ANGLE		-43.321	0.4132	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-33.458	0.3504	
JER REAR LEG REAR VIEW		ZAF REAR LEG REAR VIEW		-30.638	0.2789	

JER UDDER DEPTH	ZAF UDDER DEPTH	-47.461	0.4530
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-50.786	0.5038
JER FORE ATTACHMENT	ZAF FORE UDDER	-45.523	0.4281
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.920	0.5826
JER TEAT LENGTH	ZAF TEAT LENGTH	-46.908	0.4598
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-56.955	0.5522
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-63.406	0.6258
JER ANGULARITY	ZAF ANGULARITY	-56.311	0.5475

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2021

BREED	BMILK	BFAT	BPRT
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AYS	7972	333	273
BSW	8455	361	303
CN	5795	255	210
GUE	7049	327	249
JER	6987	360	271
HOL	10720	424	350
MS	7100	281	235

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(424+50*0.5) / (10720+1000*0.5) - (424/11E3)] \\
 &= 200 * [(424+25) / (10720+500) - (0.03955)] \\
 &= 200 * [0.04002 - 0.03955] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(350+40*0.5) / (10720+1000*0.5) - (350/11E3)] \\
 &= 200 * [(350+20) / (10720+500) - (0.03265)] \\
 &= 200 * [0.03298 - 0.03265] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$