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 Conversion Factors For Production Traits. Source: INTERBULL 2208  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	79.50	1.2670	-4.800	1.6870	-1.200	1.3370	0.4761
JER	CHE	21.00	1.5272	20.848	1.3860	7.650	1.3458	0.6400
JER	DEU	172.93	0.8824	25.924	1.0526	13.245	0.8981	0.7921
JER	DFS	-5901.10	59.3690	-166.900	2.1610	-144.300	1.6610	0.7921
JER	GBR	-63.90	2.7840	6.300	2.8710	-0.100	2.7470	0.6724
JER	IRL	458.80	2.3730	-22.900	3.4620	0.000	1.9450	0.5476
JER	ITA	-58.92	0.9820	9.998	0.9168	3.456	0.8494	0.7569
JER	NLD	2320.40	0.8778	42.963	0.9115	58.522	0.8508	0.7569
JER	NZL	184.20	1.3480	2.400	1.1880	2.100	1.1190	0.4096
JER	USA	790.20	0.7480	24.800	0.9170	23.800	0.8100	0.7921
JER	ZAF	144.67	1.3970	10.195	1.5250	6.136	1.4437	0.6561

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 Conversion Factors For SCS Traits. Source: INTERBULL 2208  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.400	-19.0120	0.6084
JER	CHE	61.047	0.4147	0.7744
JER	DFS	61.500	0.4390	0.8281
JER	GBR	100.400	-0.4780	0.8464
JER	ITA	26.479	0.7289	0.7569
JER	NLD	-19.878	1.2758	0.8281
JER	NZL	97.700	-10.0650	0.4900
JER	USA	194.700	-31.4320	0.8100
JER	ZAF	101.025	-0.2449	0.7225

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 Conversion Factors For Type. Source = INTERBULL MACE 2208  
 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                      -4.792      3.7584 0.30

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-40.906	0.3878
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-2.844	5.5397
JER STATURE	AUS STATURE	-5.728	10.8522
JER CHEST WIDTH	AUS CHEST WIDTH	1.181	14.6986
JER BODY DEPTH	AUS BODY DEPTH	1.179	12.8619
JER PIN WIDTH	AUS PIN WIDTH	-0.531	15.4460
JER RUMP ANGLE	AUS RUMP ANGLE	0.601	14.4057
JER FOOT ANGLE	AUS FOOT ANGLE	-3.333	17.3074
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	3.049	23.2190
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-4.657	11.4586
JER UDDER DEPTH	AUS UDDER DEPTH	-5.891	14.1138
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.648	13.3543
JER FORE ATTACHMENT	AUS FORE UDDER	-6.230	11.4751
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.849	12.6813
JER TEAT LENGTH	AUS TEAT LENGTH	-0.039	16.9956
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-4.151	12.4966
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.513	16.1158
JER ANGULARITY	AUS ANGULARITY	-3.502	13.2259

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
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	-58.350	0.5580	0.72		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-40.205	0.3821			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-53.634	0.5204			
JER STATURE	CHE STATURE	-61.239	0.5834			
JER CHEST WIDTH	CHE CHEST WIDTH	-47.011	0.4740			
JER BODY DEPTH	CHE BODY DEPTH	-37.092	0.3707			
JER PIN WIDTH	CHE RUMP WIDTH	-49.896	0.4798			
JER RUMP ANGLE	CHE RUMP ANGLE	-41.775	0.4369			
JER FOOT ANGLE	CHE FOOT ANGLE	-43.407	0.4091			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-58.860	0.6029			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-40.429	0.3735			
JER UDDER DEPTH	CHE UDDER DEPTH	-52.091	0.5200			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-58.711	0.5754			
JER FORE ATTACHMENT	CHE FORE UDDER	-46.947	0.4423			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-62.626	0.6109			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.224	0.4438			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-50.376	0.4896			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-58.472	0.5723			
JER ANGULARITY	CHE ANGULARITY	61.219	-0.6325			

Conversion Factors For Type. Source = INTERBULL MACE 2208  
 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	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	-28.129	0.2410	0.41		
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-28.484	0.2634			
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-41.700	0.4030			
JER STATURE	DFS STATURE	-57.308	0.5405			
JER CHEST WIDTH	DFS CHEST WIDTH	-35.918	0.3470			
JER BODY DEPTH	DFS BODY DEPTH	-38.951	0.3578			
JER PIN WIDTH	DFS RUMP WIDTH	-52.809	0.4912			
JER RUMP ANGLE	DFS RUMP ANGLE	-47.544	0.4853			
JER FOOT ANGLE	DFS FOOT ANGLE	-43.787	0.4279			
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-41.667	0.4487			
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-41.255	0.3645			
JER UDDER DEPTH	DFS UDDER DEPTH	-39.018	0.4053			
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-47.183	0.4329			
JER FORE ATTACHMENT	DFS FORE UDDER	-40.646	0.3859			
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-50.460	0.4733			
JER TEAT LENGTH	DFS TEAT LENGTH	-36.308	0.3613			
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-55.640	0.5331			
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-50.094	0.4576			
JER ANGULARITY	DFS ANGULARITY	-49.245	0.4668			

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 Conversion Factors For Type. Source = INTERBULL MACE 2208  
 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	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	-1.408	2.4505			
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-1.513	3.6416			
JER STATURE	GBR STATURE	-4.814	5.9732			
JER CHEST WIDTH	GBR CHEST WIDTH	0.262	3.3090			
JER BODY DEPTH	GBR BODY DEPTH	0.278	3.1431			
JER PIN WIDTH	GBR RUMP WIDTH	-1.975	4.2681			
JER RUMP ANGLE	GBR RUMP ANGLE	-0.524	4.6411			

JER FOOT ANGLE	GBR FOOT ANGLE	-1.618	3.2858
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.167	2.9874
JER UDDER DEPTH	GBR UDDER DEPTH	-0.447	3.5856
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.225	3.2336
JER FORE ATTACHMENT	GBR FORE UDDER	-1.077	3.2856
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.311	4.4332
JER TEAT LENGTH	GBR TEAT LENGTH	-0.422	3.4655
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.766	4.1166
JER ANGULARITY	GBR ANGULARITY	-4.280	5.0334

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
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	-3.297	5.0211	0.55
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.404	2.9902	
JER STATURE	ITA STATURE	-4.700	4.3969	
JER CHEST WIDTH	ITA CHEST WIDTH	1.056	3.2154	
JER BODY DEPTH	ITA BODY DEPTH	0.439	2.5781	
JER PIN WIDTH	ITA RUMP WIDTH	-2.641	3.0211	
JER RUMP ANGLE	ITA RUMP ANGLE	0.518	4.2388	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.486	2.3724	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	1.156	2.5771	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-1.489	4.1014	
JER UDDER DEPTH	ITA UDDER DEPTH	-3.001	3.5582	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.599	2.6920	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.701	3.3025	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.483	2.7358	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.558	2.7414	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.893	3.0031	
JER ANGULARITY	ITA ANGULARITY	-2.871	3.8937	

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
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	-116.737	1.2748	0.53
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-80.381	0.7219	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-123.857	1.3001	
JER STATURE	NLD STATURE	-92.080	1.2304	
JER CHEST WIDTH	NLD CHEST WIDTH	-103.101	1.3412	
JER BODY DEPTH	NLD BODY DEPTH	-82.903	1.0049	
JER PIN WIDTH	NLD RUMP WIDTH	-95.526	1.1847	
JER RUMP ANGLE	NLD RUMP ANGLE	-114.008	1.2041	
JER FOOT ANGLE	NLD FOOT ANGLE	-109.673	1.1765	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-162.205	1.5754	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-132.339	1.2001	
JER UDDER DEPTH	NLD UDDER DEPTH	-110.359	1.2483	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-108.351	1.1147	
JER FORE ATTACHMENT	NLD FORE UDDER	-109.053	1.1244	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-109.640	1.1241	
JER TEAT LENGTH	NLD TEAT LENGTH	-117.238	1.1194	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-120.366	1.2216	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-118.671	1.2319	
JER ANGULARITY	NLD ANGULARITY	-91.980	0.9991	

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 Conversion Factors For Type. Source = INTERBULL MACE 2208  
 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	-9.406	9.2242	0.31
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-10.304	10.4864	
JER STATURE	NZL STATURE	2.817	15.6627	
JER CHEST WIDTH	NZL CHEST WIDTH	5.658	12.2465	
JER BODY DEPTH	NZL BODY DEPTH	3.704	10.2299	
JER PIN WIDTH	NZL RUMP WIDTH	3.658	17.2733	
JER RUMP ANGLE	NZL RUMP ANGLE	1.182	17.3254	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.064	35.0531	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.447	9.4292	
JER FORE ATTACHMENT	NZL FORE UDDER	-7.321	9.7139	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.406	19.5697	
JER TEAT LENGTH	NZL TEAT LENGTH	-0.048	9.8023	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.579	11.7236	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.376	14.6809	

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
 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	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)		-0.935	4.6153	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.569	2.3160	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		-0.183	5.4768	
JER STATURE		USA STATURE		-0.298	3.7728	
JER CHEST WIDTH		USA STRENGTH		-0.481	5.9350	
JER BODY DEPTH		USA BODY DEPTH		0.209	4.2315	
JER PIN WIDTH		USA THURL WIDTH		-0.142	5.1396	
JER RUMP ANGLE		USA RUMP ANGLE		1.943	4.4087	
JER FOOT ANGLE		USA FOOT ANGLE		-2.125	6.3395	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.954	6.5047	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.547	-5.0814	
JER UDDER DEPTH		USA UDDER DEPTH		-1.714	2.8216	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		-0.036	5.5757	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-1.861	3.5250	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.280	4.5302	
JER TEAT LENGTH		USA TEAT LENGTH		-0.453	4.7438	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-0.442	4.4495	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.568	4.3231	
JER ANGULARITY		USA DAIRY FORM		0.181	5.6090	

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 Conversion Factors For Type. Source = INTERBULL MACE 2208  
 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	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		-69.037	0.6419	
JER CHEST WIDTH		ZAF CHEST WIDTH		-60.389	0.5998	
JER BODY DEPTH		ZAF BODY DEPTH		-47.136	0.4685	
JER PIN WIDTH		ZAF RUMP WIDTH		-54.692	0.5412	
JER RUMP ANGLE		ZAF RUMP ANGLE		-57.276	0.5815	
JER FOOT ANGLE		ZAF FOOT ANGLE		-44.083	0.4213	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-33.494	0.3517	

JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-31.718	0.2906
JER UDDER DEPTH	ZAF UDDER DEPTH	-48.202	0.4603
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-51.209	0.5065
JER FORE ATTACHMENT	ZAF FORE UDDER	-46.910	0.4389
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.921	0.5820
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.240	0.4631
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-56.461	0.5472
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-62.558	0.6166
JER ANGULARITY	ZAF ANGULARITY	-56.219	0.5464

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CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2022

BREED	BMILK	BFAT	BPRT
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AYS	8023	334	275
BSW	8527	363	305
CN	5948	258	218
GUE	6854	315	242
JER	7070	365	275
HOL	10837	431	355
MS	7478	286	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (431 + 50 * 0.5) / (10837 + 1000 * 0.5) - (431 / 111E3) ] \\
 &= 200 * [ (431 + 25) / (10837 + 500) - (0.03977) ] \\
 &= 200 * [ 0.04022 - 0.03977 ] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (355 + 40 * 0.5) / (10837 + 1000 * 0.5) - (355 / 111E3) ] \\
 &= 200 * [ (355 + 20) / (10837 + 500) - (0.03276) ] \\
 &= 200 * [ 0.03308 - 0.03276 ] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$