
 Conversion Factors For Production Traits. Source: INTERBULL 1512

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	614.50	1.0720	20.800	1.0980	18.500	1.1870	0.6241
JER	DEU	286.94	1.0867	24.609	1.0615	14.242	0.9630	0.7396
JER	DFS	-5396.70	56.4090	-142.500	1.9810	-130.500	1.5440	0.8100
JER	GBR	-187.70	2.5510	11.500	2.8800	-0.800	2.8230	0.7225
JER	IRL	602.30	2.3640	-24.200	3.3160	3.100	2.1800	0.5929
JER	ITA	246.54	0.9576	22.981	0.8688	13.362	0.8185	0.7396
JER	NLD	2309.43	0.8765	47.844	0.8869	60.327	0.8294	0.7569
JER	NZL	619.00	1.4920	16.000	1.3510	14.800	1.3840	0.5184
JER	USA	934.60	0.8840	31.500	0.9610	28.100	0.8940	0.8100
JER	ZAF	391.90	1.5790	13.700	1.6220	13.300	1.5340	0.7056

 Conversion Factors For SCS Traits. Source: INTERBULL 1512

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	3.600	-0.0060	0.6561
JER	DFS	4.400	-0.0160	0.7921
JER	GBR	2.981	0.0181	0.8281
JER	NLD	-1.435	0.0469	0.8464
JER	NZL	3.000	0.4750	0.6561
JER	USA	-0.200	1.0930	0.8281
JER	ZAF	2.900	0.0090	0.7744

 Conversion Factors For Type. Source = INTERBULL MACE 1512

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

country2=AUS

c	a	n	b	t	c	f	a	b	t
					o	o			
					u	r	v	v	c
b	t	r	r	e	a	e	a	a	o
					r	a	l	l	r
					y	i	u	u	r
d	t				2	t	e	e	2
JER CONFORMATION		AUS GENERAL APPEARANCE			-58.753	0.5217	0.23		
JER FEET AND LEGS		AUS OVERALL FEET & LEG			-46.524	0.4183			
JER MAMMARY SYSTEM		AUS OVERALL UDDER SCORE			-84.340	0.7876			
JER STATURE		AUS STATURE			-96.482	0.9252			
JER CHEST WIDTH		AUS CHEST WIDTH			-93.201	0.9456			
JER BODY DEPTH		AUS BODY DEPTH			-88.843	0.8976			
JER PIN WIDTH		AUS PIN WIDTH			-104.363	1.0389			

JER RUMP ANGLE	AUS RUMP ANGLE	-81.879	0.8303
JER FOOT ANGLE	AUS FOOT ANGLE	-57.189	0.5446
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-39.081	0.4226
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-41.132	0.3630
JER UDDER DEPTH	AUS UDDER DEPTH	-94.414	0.8986
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-110.661	1.1081
JER FORE ATTACHMENT	AUS FORE UDDER	-64.577	0.5919
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-87.134	0.8633
JER TEAT LENGTH	AUS TEAT LENGTH	-79.247	0.7792
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-109.747	1.0556
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-102.387	1.0274
JER ANGULARITY	AUS ANGULARITY	-81.402	0.7781

Conversion Factors For Type. Source = INTERBULL MACE 1512
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

JER CONFORMATION	DFS CONFORMATION	-32.274	0.2765	0.49
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-35.503	0.3262	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-39.121	0.3669	
JER STATURE	DFS STATURE	-50.655	0.4802	
JER CHEST WIDTH	DFS CHEST WIDTH	-34.028	0.3240	
JER BODY DEPTH	DFS BODY DEPTH	-38.212	0.3551	
JER PIN WIDTH	DFS RUMP WIDTH	-55.913	0.5006	
JER RUMP ANGLE	DFS RUMP ANGLE	-44.151	0.4642	
JER FOOT ANGLE	DFS FOOT ANGLE	-37.547	0.3696	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-38.317	0.4153	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-45.836	0.4028	
JER UDDER DEPTH	DFS UDDER DEPTH	-36.149	0.3580	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-45.526	0.4478	
JER FORE ATTACHMENT	DFS FORE UDDER	-35.773	0.3313	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-46.376	0.4327	
JER TEAT LENGTH	DFS TEAT LENGTH	-34.057	0.3403	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-55.513	0.5469	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-48.371	0.4546	
JER ANGULARITY	DFS ANGULARITY	-42.414	0.4038	

Conversion Factors For Type. Source = INTERBULL MACE 1512
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

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 FEET AND LEGS	GBR OVERALL FEET & LEG	-3.194	3.3253
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-2.871	3.9767
JER STATURE	GBR STATURE	-5.469	5.6879
JER CHEST WIDTH	GBR CHEST WIDTH	-0.103	3.5756
JER BODY DEPTH	GBR BODY DEPTH	-0.248	2.9566
JER PIN WIDTH	GBR RUMP WIDTH	-3.138	4.5210
JER RUMP ANGLE	GBR RUMP ANGLE	-0.081	4.4262
JER FOOT ANGLE	GBR FOOT ANGLE	-1.602	3.2048
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.906	2.6728
JER UDDER DEPTH	GBR UDDER DEPTH	-1.167	2.9446
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.948	3.4324
JER FORE ATTACHMENT	GBR FORE UDDER	-1.393	2.9780
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.079	3.7946
JER TEAT LENGTH	GBR TEAT LENGTH	-0.727	3.3756
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-3.502	4.9772
JER ANGULARITY	GBR ANGULARITY	-4.763	4.3297

Conversion Factors For Type. Source = INTERBULL MACE 1512
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

c	c f	a b	t
a	o o	v v	c
n	u r	a a	o
b t	n t	l l	r
r r	t r	u u	r
e a	r a	e e	2
e i	y i		
d t	2 t		

JER CONFORMATION	ITA CONFORMATION	-3.943	6.2896	0.64
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.902	3.8769	
JER STATURE	ITA STATURE	-2.720	4.7742	
JER CHEST WIDTH	ITA CHEST WIDTH	-0.112	4.2894	
JER BODY DEPTH	ITA BODY DEPTH	-0.574	3.0271	
JER PIN WIDTH	ITA RUMP WIDTH	-2.305	3.6275	
JER RUMP ANGLE	ITA RUMP ANGLE	0.884	3.7903	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.103	2.3966	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	2.311	2.8894	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-3.543	3.6377	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.078	3.2387	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.285	2.9855	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.277	2.9449	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.205	2.9188	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.122	2.5049	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.000	4.3346	
JER ANGULARITY	ITA ANGULARITY	-1.984	4.2073	

Conversion Factors For Type. Source = INTERBULL MACE 1512
 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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
JER CONFORMATION	NLD CONFORMATION		-156.118	1.7214	0.62
JER FEET AND LEGS	NLD OVERALL FEET & LEG		-83.577	0.7137	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE		-109.612	1.1647	
JER STATURE	NLD STATURE		-86.797	1.2012	
JER CHEST WIDTH	NLD CHEST WIDTH		-96.398	1.2413	
JER BODY DEPTH	NLD BODY DEPTH		-121.734	1.4993	
JER PIN WIDTH	NLD RUMP WIDTH		-109.939	1.3814	
JER RUMP ANGLE	NLD RUMP ANGLE		-105.430	1.1295	
JER FOOT ANGLE	NLD FOOT ANGLE		-85.999	0.9093	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET		-140.396	1.3806	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW		-126.140	1.1021	
JER UDDER DEPTH	NLD UDDER DEPTH		-91.550	1.0141	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY		-95.320	0.9947	
JER FORE ATTACHMENT	NLD FORE UDDER		-85.780	0.8741	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT		-104.408	1.0565	
JER TEAT LENGTH	NLD TEAT LENGTH		-103.217	0.9833	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT		-118.861	1.2143	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT		-118.760	1.2284	
JER ANGULARITY	NLD ANGULARITY		-121.334	1.3934	

 Conversion Factors For Type. Source = INTERBULL MACE 1512
 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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
JER CONFORMATION	NZL OVERALL CONFORMATION		-9.468	10.5280	0.36
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE		-9.194	10.2335	
JER STATURE	NZL STATURE		6.505	14.6398	
JER CHEST WIDTH	NZL CHEST WIDTH		5.725	11.7098	
JER BODY DEPTH	NZL BODY DEPTH		3.886	10.8604	
JER PIN WIDTH	NZL RUMP WIDTH		4.966	19.6030	
JER RUMP ANGLE	NZL RUMP ANGLE		2.319	17.5706	

JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	0.298	31.2730
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-2.961	9.1219
JER FORE ATTACHMENT	NZL FORE UDDER	-6.883	8.8181
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-4.757	17.9846
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-9.077	13.3271
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-1.464	15.0011

Conversion Factors For Type. Source = INTERBULL MACE 1512
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

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	USA PTA TYPE (FINAL SCORE)	-2.869	5.2220	0.62
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.736	5.7227	
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-1.951	8.6397	
JER STATURE	USA STATURE	-0.342	4.7470	
JER CHEST WIDTH	USA STRENGTH	-1.177	7.2240	
JER PIN WIDTH	USA THURL WIDTH	0.056	7.0584	
JER RUMP ANGLE	USA RUMP ANGLE	1.740	5.0178	
JER FOOT ANGLE	USA FOOT ANGLE	-2.037	7.0794	
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	2.659	8.3484	
JER UDDER DEPTH	USA UDDER DEPTH	-2.868	3.3119	
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.654	7.6012	
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-2.713	4.3818	
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.159	5.4319	
JER TEAT LENGTH	USA TEAT LENGTH	0.135	5.6868	
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.830	5.3695	
JER ANGULARITY	USA DAIRY FORM	0.454	6.0107	

Conversion Factors For Type. Source = INTERBULL MACE 1512
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

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 STATURE	ZAF STATURE	-68.086	0.6513	
JER CHEST WIDTH	ZAF CHEST WIDTH	-57.054	0.5561	

JER BODY DEPTH	ZAF BODY DEPTH	-50.174	0.4956
JER PIN WIDTH	ZAF RUMP WIDTH	-55.418	0.5480
JER RUMP ANGLE	ZAF RUMP ANGLE	-55.389	0.5667
JER FOOT ANGLE	ZAF FOOT ANGLE	-38.010	0.3616
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-31.006	0.3310
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-35.236	0.3104
JER UDDER DEPTH	ZAF UDDER DEPTH	-47.477	0.4499
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-47.946	0.4867
JER FORE ATTACHMENT	ZAF FORE UDDER	-42.303	0.3904
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-50.919	0.5051
JER TEAT LENGTH	ZAF TEAT LENGTH	-45.399	0.4514
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-54.326	0.5172
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-56.976	0.5710
JER ANGULARITY	ZAF ANGULARITY	-54.607	0.5258

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2015

BREED	BMILK	BFAT	BPRT
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AYS	7548	311	255
BSW	8067	338	285
CN	5354	233	189
GUE	6631	306	230
JER	6418	320	245
HOL	9934	379	318
MS	6942	262	226

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(379 + 50 * .5) / (9934 + 1000 * .5) - (379 / 9934)] \\ &= 200 * [(379 + 25) / (9934 + 500) - (0.03815)] \\ &= 200 * [0.03872 - 0.03815] \\ &= 200 * 0.00057 \\ &= 0.11 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(318 + 40 * .5) / (9934 + 1000 * .5) - (318 / 9934)] \\ &= 200 * [(318 + 20) / (9934 + 500) - (0.03201)] \\ &= 200 * [0.03239 - 0.03201] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$