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Conversion Factors For Production Traits. Source: INTERBULL 1212

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-109.905	0.944	-7.238	1.216	-3.872	1.195	0.6084
GUE	GBR	-519.648	2.743	-13.603	2.509	-13.377	2.953	0.7569
GUE	NZL	823.669	1.625	35.030	1.299	30.611	1.502	0.5776
GUE	USA	253.027	0.850	5.665	0.930	7.364	0.888	0.8281
GUE	ZAF	-406.746	1.763	-22.935	1.763	-15.259	1.763	0.7396

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Conversion Factors For SCS Traits. Source: INTERBULL 1212

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

breed	country2	a	b	scorr2
GUE	AUS	2.226	0.007	0.7225
GUE	GBR	2.910	0.016	0.8464
GUE	NZL	2.886	0.303	0.6400
GUE	USA	0.268	0.905	0.8836
GUE	ZAF	2.976	0.011	0.7744

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Conversion Factors For Type. Source = INTERBULL MACE 1212

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			
					n	t	v	v	c
					t	r	a	a	o
					r	a	l	l	r
					y	i	u	u	r
					2	t	e	e	2
GUE CONFORMATION					AUS CONFORMATION		-29.543	0.2870	0.08
GUE FEET AND LEGS					AUS OVERALL FEET & LEG		-104.870	1.0439	
GUE MAMMARY SYSTEM					AUS OVERALL UDDER SCORE		-93.406	0.9208	
GUE STATURE					AUS STATURE		-31.773	0.2906	
GUE CHEST WIDTH					AUS CHEST WIDTH		-81.707	0.7945	
GUE BODY DEPTH					AUS BODY DEPTH		-50.162	0.4853	
GUE PIN WIDTH					AUS RUMP WIDTH		-54.435	0.5208	
GUE RUMP ANGLE					AUS RUMP ANGLE		-50.023	0.4802	
GUE FOOT ANGLE					AUS FOOT ANGLE		-42.093	0.4327	
GUE REAR LEGS SIDE VIEW					AUS REAR LEG SET		-83.117	0.8156	
GUE REAR LEG REAR VIEW					AUS REAR LEG REAR VIEW		-47.448	0.4580	
GUE UDDER DEPTH					AUS UDDER DEPTH		-52.411	0.5406	
GUE MEDIAN SUSPENSORY					AUS MEDIAN SUSPENSORY		-60.501	0.6006	
GUE FORE ATTACHMENT					AUS FORE UDDER		-73.836	0.7465	

GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-45.832	0.4536
GUE TEAT LENGTH	AUS TEAT LENGTH	-11.368	0.1096
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-71.685	0.7123
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-62.548	0.6332
GUE ANGULARITY	AUS ANGULARITY	3.411	-0.0404

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 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
GUE CONFORMATION	GBR CONFORMATION	-5.020	4.7219	0.81
GUE FEET AND LEGS	GBR OVERALL FEET & LEG	-0.860	2.2492	
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.542	5.1155	
GUE STATURE	GBR STATURE	-6.667	5.3905	
GUE CHEST WIDTH	GBR CHEST WIDTH	-0.579	3.3105	
GUE BODY DEPTH	GBR BODY DEPTH	-3.463	4.1244	
GUE PIN WIDTH	GBR RUMP WIDTH	-2.381	4.1623	
GUE RUMP ANGLE	GBR RUMP ANGLE	0.422	3.3424	
GUE FOOT ANGLE	GBR FOOT ANGLE	0.698	1.2088	
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-0.544	3.1127	
GUE UDDER DEPTH	GBR UDDER DEPTH	-0.650	3.6541	
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-2.120	3.4186	
GUE FORE ATTACHMENT	GBR FORE UDDER	-1.009	4.1577	
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.008	4.4865	
GUE TEAT LENGTH	GBR TEAT LENGTH	-0.946	1.8073	
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-5.240	3.1540	
GUE ANGULARITY	GBR ANGULARITY	-4.923	3.3759	

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Conversion Factors For Type. Source = INTERBULL MACE 1212  
 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
GUE CONFORMATION	USA PTA TYPE (FINAL SCORE)	-0.171	5.6823	0.45
GUE FEET AND LEGS	USA OVERALL FEET & LEG	0.047	5.0255	

GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.063	9.7382
GUE STATURE	USA STATURE	-0.201	2.4163
GUE CHEST WIDTH	USA STRENGTH	0.960	4.3618
GUE BODY DEPTH	USA BODY DEPTH	0.770	3.6148
GUE PIN WIDTH	USA THURL WIDTH	0.831	4.4951
GUE RUMP ANGLE	USA RUMP ANGLE	0.275	3.6524
GUE FOOT ANGLE	USA FOOT ANGLE	1.057	7.4517
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.139	7.3022
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-0.992	5.4812
GUE UDDER DEPTH	USA UDDER DEPTH	-1.032	3.5344
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	0.155	3.0922
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-0.914	4.1095
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.112	4.0556
GUE TEAT LENGTH	USA TEAT LENGTH	-0.846	2.5638
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.724	3.7811
GUE ANGULARITY	USA DAIRY FORM	-0.630	2.3369

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CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2012

BREED	BMILK	BFAT	BPRT
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AYS	7368	298	248
BSW	8065	330	281
CN	5833	249	205
GUE	6707	299	228
JER	6337	312	242
HOL	9670	364	310
MS	6794	247	224

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (364 + 50 * 0.5) / (9670 + 1000 * 0.5) - (364 / 9670) ] \\ &= 200 * [ (364 + 25) / (9670 + 500) - (0.03764) ] \\ &= 200 * [ 0.03825 - 0.03764 ] \\ &= 200 * 0.00061 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [ (310 + 40 * 0.5) / (9670 + 1000 * 0.5) - (310 / 9670) ] \\ &= 200 * [ (310 + 20) / (9670 + 500) - (0.03206) ] \\ &= 200 * [ 0.03245 - 0.03206 ] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$