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 Conversion Factors For Production Traits. Source: INTERBULL 1208

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-96.249	0.941	-6.977	1.209	-3.536	1.188	0.6084
GUE	GBR	-510.159	2.770	-13.204	2.502	-12.993	2.941	0.7744
GUE	NZL	815.108	1.602	34.789	1.278	30.265	1.475	0.5776
GUE	USA	254.938	0.839	5.905	0.923	7.520	0.875	0.8281
GUE	ZAF	-402.748	2.399	-26.024	2.246	-15.931	2.087	0.7396

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 Conversion Factors For SCS Traits. Source: INTERBULL 1208

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

breed	country2	a	b	scorr2
GUE	AUS	2.229	0.007	0.7225
GUE	GBR	2.907	0.016	0.8464
GUE	NZL	2.875	0.310	0.6724
GUE	USA	0.303	0.894	0.8836

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 Conversion Factors For Type. Source = INTERBULL MACE 1208

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

country2=AUS

c	c	f	a	b	t
a	o	o	v	v	c
n	u	r	a	a	o
b	t	n	t	l	r
r	r	t	r	u	r
e	a	r	a	e	e
e	i	y	i	e	e
d	t	2	t	e	2
GUE CONFORMATION	AUS CONFORMATION		-32.562	0.3172	0.10
GUE FEET AND LEGS	AUS OVERALL FEET & LEG		-112.934	1.1261	
GUE MAMMARY SYSTEM	AUS OVERALL UDDER SCORE		-102.139	1.0104	
GUE STATURE	AUS STATURE		-37.370	0.3470	
GUE CHEST WIDTH	AUS CHEST WIDTH		-86.763	0.8439	
GUE BODY DEPTH	AUS BODY DEPTH		-51.442	0.4977	
GUE PIN WIDTH	AUS RUMP WIDTH		-61.487	0.5862	
GUE RUMP ANGLE	AUS RUMP ANGLE		-50.034	0.4801	
GUE FOOT ANGLE	AUS FOOT ANGLE		-41.176	0.4211	
GUE REAR LEGS SIDE VIEW	AUS REAR LEG SET		-83.697	0.8216	
GUE REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW		-70.849	0.6901	
GUE UDDER DEPTH	AUS UDDER DEPTH		-52.049	0.5360	
GUE MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY		-67.214	0.6658	
GUE FORE ATTACHMENT	AUS FORE UDDER		-72.628	0.7321	
GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT		-46.801	0.4631	

GUE TEAT LENGTH	AUS TEAT LENGTH	-12.785	0.1257
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-68.737	0.6791
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-67.538	0.6839
GUE ANGULARITY	AUS ANGULARITY	6.614	-0.0723

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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	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

  

GUE CONFORMATION	GBR CONFORMATION	-5.247	4.6930	0.79
GUE FEET AND LEGS	GBR OVERALL FEET & LEG	-0.359	3.4260	
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.506	4.7692	
GUE STATURE	GBR STATURE	-6.683	5.3480	
GUE CHEST WIDTH	GBR CHEST WIDTH	-0.626	3.3013	
GUE BODY DEPTH	GBR BODY DEPTH	-3.670	4.1336	
GUE PIN WIDTH	GBR RUMP WIDTH	-2.526	4.2758	
GUE RUMP ANGLE	GBR RUMP ANGLE	0.465	3.3504	
GUE FOOT ANGLE	GBR FOOT ANGLE	0.613	1.8976	
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-0.564	3.2191	
GUE UDDER DEPTH	GBR UDDER DEPTH	-0.587	3.4874	
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-2.100	3.1316	
GUE FORE ATTACHMENT	GBR FORE UDDER	-0.970	3.9961	
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.093	4.2536	
GUE TEAT LENGTH	GBR TEAT LENGTH	-0.856	1.9005	
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-5.189	3.1933	
GUE ANGULARITY	GBR ANGULARITY	-5.049	3.4075	

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Conversion Factors For Type. Source = INTERBULL MACE 1208  
 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	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

  

GUE CONFORMATION	USA PTA TYPE (FINAL SCORE)	-0.067	5.6670	0.44
GUE FEET AND LEGS	USA OVERALL FEET & LEG	0.514	5.2411	
GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.172	9.5094	

GUE STATURE	USA STATURE	-0.052	2.3954
GUE CHEST WIDTH	USA STRENGTH	0.997	4.4193
GUE BODY DEPTH	USA BODY DEPTH	0.682	3.7140
GUE PIN WIDTH	USA THURL WIDTH	0.768	4.6759
GUE RUMP ANGLE	USA RUMP ANGLE	0.190	3.6560
GUE FOOT ANGLE	USA FOOT ANGLE	1.113	7.4896
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.169	7.2441
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-0.689	5.5985
GUE UDDER DEPTH	USA UDDER DEPTH	-0.915	3.5401
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	-0.076	3.1459
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-0.824	4.1012
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.028	3.9936
GUE TEAT LENGTH	USA TEAT LENGTH	-0.766	2.6863
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.676	3.6198
GUE ANGULARITY	USA DAIRY FORM	-0.762	2.2818

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CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2012

BREED	BMILK	BFAT	BPRT
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AYS	7378	299	248
BSW	8038	329	280
CN	5803	247	204
GUE	6752	303	229
JER	6320	311	241
HOL	9670	364	310
MS	6617	241	218

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (364 + 50 * .5) / (9670 + 1000 * .5) - (364 / 9670) ] \\ &= 200 * [ (364 + 25) / (9670 + 500) - (0.03764) ] \\ &= 200 * [ 0.03825 - 0.03764 ] \\ &= 200 * 0.00061 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [ (310 + 40 * .5) / (9670 + 1000 * .5) - (310 / 9670) ] \\ &= 200 * [ (310 + 20) / (9670 + 500) - (0.03206) ] \\ &= 200 * [ 0.03245 - 0.03206 ] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$