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 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
GUE	AUS	-242.024	1.2676	-8.247	1.3916	-4.735	1.2237	0.6084
GUE	GBR	-344.800	2.6260	-4.100	2.5350	-8.400	2.8470	0.7396
GUE	NZL	741.656	1.6036	31.822	1.3573	26.852	1.4644	0.5329
GUE	USA	204.300	0.9870	3.800	1.1290	5.100	1.0630	0.8464
GUE	ZAF	-555.253	1.8128	-30.783	1.8708	-20.184	1.7805	0.7056

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 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
GUE	AUS	2.266	0.0073	0.7225
GUE	GBR	2.900	0.0160	0.8464
GUE	NZL	2.919	0.3249	0.6724
GUE	USA	0.300	0.9070	0.8649
GUE	ZAF	3.013	0.0092	0.8100

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 Conversion Factors For Type. Source = INTERBULL MACE 1512

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

country2=AUS

	c		c	f				
	a		o	o		a	b	
	n		u	r		v	v	
b	t		n	t		a	a	
r	r		r	a		l	l	
e	a		y	i		u	u	
e	i		2	t		e	e	
d	t							
GUE	CONFORMATION	AUS	CONFORMATION			-54.036	0.5493	0.24
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG			-48.442	0.4883	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE			-98.997	0.9813	
GUE	STATURE	AUS	STATURE			-124.328	1.2203	
GUE	CHEST WIDTH	AUS	CHEST WIDTH			-77.032	0.7805	
GUE	BODY DEPTH	AUS	BODY DEPTH			-85.729	0.8676	
GUE	PIN WIDTH	AUS	RUMP WIDTH			-119.324	1.1902	
GUE	RUMP ANGLE	AUS	RUMP ANGLE			-73.511	0.7286	
GUE	FOOT ANGLE	AUS	FOOT ANGLE			-44.449	0.4635	
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET			-76.442	0.7429	
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW			-59.758	0.5981	
GUE	UDDER DEPTH	AUS	UDDER DEPTH			-106.149	1.0675	
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY			-68.007	0.6841	
GUE	FORE ATTACHMENT	AUS	FORE UDDER			-91.178	0.9188	

GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-73.146	0.7252
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-40.980	0.4151
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-92.264	0.9094
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-59.876	0.5953
GUE	ANGULARITY	AUS	ANGULARITY	-42.920	0.4342

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 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=GBR

c	a	n	b	r	e	e	d	c	o	u	n	t	r	a	y	2	f	o	r	a	i	t	a	b	v	v	a	l	u	e	t	c	o	r	r	2
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	0.391	3.7009																															
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.676	4.9298																															
GUE	STATURE	GBR	STATURE	-6.629	5.6795																															
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.340	3.8519																															
GUE	BODY DEPTH	GBR	BODY DEPTH	-2.205	4.0794																															
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.352	4.4731																															
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.266	3.7797																															
GUE	FOOT ANGLE	GBR	FOOT ANGLE	0.973	3.0987																															
GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.951	3.4168																															
GUE	UDDER DEPTH	GBR	UDDER DEPTH	-0.308	3.6710																															
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.233	2.7767																															
GUE	FORE ATTACHMENT	GBR	FORE UDDER	0.149	4.3909																															
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-1.064	4.5002																															
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-0.904	2.0910																															
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.757	2.3932																															
GUE	ANGULARITY	GBR	ANGULARITY	-4.208	4.2864																															

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

country2=USA

c	a	n	b	r	e	e	d	c	o	u	n	t	r	a	y	2	f	o	r	a	i	t	a	b	v	v	a	l	u	e	t	c	o	r	r	2
GUE	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	2.956	6.1060	0.59																														
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.843	5.0211																															
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.435	9.0793																															

GUE	STATURE	USA	STATURE	0.113	2.6224
GUE	CHEST WIDTH	USA	STRENGTH	1.409	4.9167
GUE	BODY DEPTH	USA	BODY DEPTH	1.084	3.5005
GUE	PIN WIDTH	USA	THURL WIDTH	1.089	4.7077
GUE	RUMP ANGLE	USA	RUMP ANGLE	-0.199	3.8391
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.521	8.4390
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.351	7.3503
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.422	6.4136
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.845	3.2906
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.247	4.7775
GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	1.914	4.2118
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.720	4.2116
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.732	2.8414
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	0.581	3.5864
GUE	ANGULARITY	USA	DAIRY FORM	1.405	3.5225

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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

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

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

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