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 Conversion Factors For Production Traits. Source: INTERBULL 1804  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-158.253	1.2658	-8.841	1.3381	-1.339	1.1838	0.5329
GUE	GBR	-296.400	2.7190	-7.100	2.4720	-7.500	2.7190	0.7225
GUE	NZL	905.711	1.6101	37.242	1.3276	36.454	1.4703	0.4900
GUE	USA	235.200	1.0140	-0.800	1.1170	5.900	1.0950	0.8281

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 Conversion Factors For SCS Traits. Source: INTERBULL 1804  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	2.295	0.0073	0.7569
GUE	GBR	2.900	0.0160	0.8649
GUE	NZL	2.939	0.3345	0.7569
GUE	USA	0.400	0.8840	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 1804  
 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	t	r		l	l	
e	a	r	a		u	u	
e	i	y	i		e	e	
d	t	2	t				
GUE	CONFORMATION	AUS	CONFORMATION		-51.694	0.5238	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		-46.243	0.4663	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-109.405	1.0961	
GUE	STATURE	AUS	STATURE		-126.639	1.2433	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-71.187	0.7176	
GUE	BODY DEPTH	AUS	BODY DEPTH		-98.961	0.9932	
GUE	PIN WIDTH	AUS	RUMP WIDTH		-122.238	1.2171	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-73.828	0.7316
GUE	FOOT ANGLE	AUS	FOOT ANGLE	-55.518	0.5662
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-97.408	0.9538
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-90.083	0.9001
GUE	UDDER DEPTH	AUS	UDDER DEPTH	-125.167	1.2583
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-76.512	0.7670
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-74.508	0.7577
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-75.403	0.7575
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-67.718	0.6908
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-82.175	0.8092
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-65.816	0.6704
GUE	ANGULARITY	AUS	ANGULARITY	-71.012	0.7081

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Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	t	n	t	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	FEET AND LEGS	GBR	OVERALL FEET & LEG	0.714	3.9339	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-0.170	5.0041	
GUE	STATURE	GBR	STATURE	-5.804	5.6570	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.183	3.8927	
GUE	BODY DEPTH	GBR	BODY DEPTH	-2.173	4.0495	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-0.956	4.5985	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.104	3.8323	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	0.572	3.7349	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.118	3.5447
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.214	3.8893
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.188	3.8195
GUE	FORE ATTACHMENT	GBR	FORE UDDER	0.551	4.5389
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.133	4.4803
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.237	2.5492
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.109	3.0485
GUE	ANGULARITY	GBR	ANGULARITY	-3.859	4.6821

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Conversion Factors For Type. Source = INTERBULL MACE 1804  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
b	t	n	t		a	a
r	r	r	r		l	l
e	a	y	i		u	u
e	i	2	t		e	e
d	t					2
GUE	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	1.541	5.8076	0.6
6						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	0.857	4.9782	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	1.444	9.9258	
GUE	STATURE	USA	STATURE	-0.106	2.5484	
GUE	CHEST WIDTH	USA	STRENGTH	1.190	4.8530	
GUE	BODY DEPTH	USA	BODY DEPTH	0.777	3.3802	
GUE	PIN WIDTH	USA	THURL WIDTH	0.778	4.5552	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.315	3.8596	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.191	8.0092	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.311	7.4389	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.064	8.9322	
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.760	3.6646	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	-0.430	5.2006	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	1.383	4.1420
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.383	3.8148
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.426	3.1438
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.714	3.4443
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	0.903	3.4697
GUE	ANGULARITY	USA	DAIRY FORM	0.425	3.6338

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CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2018

BREED	BMILK	BFAT	BPRT
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AYS	7805	325	264
BSW	8505	360	301
CN	5915	253	208
GUE	6546	306	226
JER	6660	336	255
HOL	10222	399	329
MS	6812	269	227

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (399+50*0.5) / (10222+1000*0.5) - (399/10222) ] \\
 &= 200 * [ (399+25) / (10222+500) - (0.03903) ] \\
 &= 200 * [ 0.03954 - 0.03903 ] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (329+40*0.5) / (10222+1000*0.5) - (329/10222) ] \\
 &= 200 * [ (329+20) / (10222+500) - (0.03219) ] \\
 &= 200 * [ 0.03255 - 0.03219 ] \\
 &= 200 * 0.00036 \\
 &= 0.07
 \end{aligned}$$