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 Conversion Factors For Production Traits. Source: INTERBULL 1904  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-159.560	1.2561	-10.216	1.2859	-2.157	1.2003	0.5041
GUE	GBR	-384.900	2.8860	-7.200	2.3410	-9.000	2.7720	0.7225
GUE	NZL	915.382	1.6881	36.176	1.3601	36.828	1.5247	0.4900
GUE	USA	99.300	1.0390	-4.800	1.1540	2.100	1.1280	0.8281

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 Conversion Factors For SCS Traits. Source: INTERBULL 1904  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.551	-19.1748	0.7744
GUE	GBR	101.900	-0.3840	0.7921
GUE	NZL	103.308	-8.2512	0.7569
GUE	USA	162.200	-20.6400	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1904  
 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		1.6484	8.8979	0.35
GUE FEET AND LEGS		AUS OVERALL FEET & LEG		-45.9766	0.4681	
GUE MAMMARY SYSTEM		AUS OVERALL UDDER SCORE		1.5416	9.4717	
GUE STATURE		AUS STATURE		-2.1845	6.9404	
GUE CHEST WIDTH		AUS CHEST WIDTH		-0.4540	12.7375	
GUE BODY DEPTH		AUS BODY DEPTH		0.6214	12.0589	
GUE PIN WIDTH		AUS RUMP WIDTH		0.0316	9.9133	
GUE RUMP ANGLE		AUS RUMP ANGLE		-0.5303	7.8014	
GUE FOOT ANGLE		AUS FOOT ANGLE		1.8429	14.7445	
GUE REAR LEGS SIDE VIEW		AUS REAR LEG SET		-2.3980	17.2072	
GUE REAR LEG REAR VIEW		AUS REAR LEG REAR VIEW		0.3646	10.2134	
GUE UDDER DEPTH		AUS UDDER DEPTH		0.6209	9.7889	
GUE MEDIAN SUSPENSORY		AUS MEDIAN SUSPENSORY		2.1208	16.0613	

GUE FORE ATTACHMENT	AUS FORE UDDER	0.5959	12.3741
GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.3786	12.3041
GUE TEAT LENGTH	AUS TEAT LENGTH	1.2460	5.6062
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-1.8594	11.9991
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	0.1178	10.0791
GUE ANGULARITY	AUS ANGULARITY	0.4041	12.7795

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Conversion Factors For Type. Source = INTERBULL MACE 1904  
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

  

GUE FEET AND LEGS	GBR OVERALL FEET & LEG	0.7790	4.0379
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-1.4731	4.8260
GUE STATURE	GBR STATURE	-6.8423	5.5426
GUE CHEST WIDTH	GBR CHEST WIDTH	-0.4681	3.9988
GUE BODY DEPTH	GBR BODY DEPTH	-2.7638	4.1877
GUE PIN WIDTH	GBR RUMP WIDTH	-1.9703	4.5196
GUE RUMP ANGLE	GBR RUMP ANGLE	0.2361	3.8404
GUE FOOT ANGLE	GBR FOOT ANGLE	0.2590	3.8896
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-0.6823	3.6457
GUE UDDER DEPTH	GBR UDDER DEPTH	-0.8885	3.7882
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-2.4276	3.7087
GUE FORE ATTACHMENT	GBR FORE UDDER	-0.3933	4.5162
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.2913	4.4706
GUE TEAT LENGTH	GBR TEAT LENGTH	-1.4201	2.5739
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-4.0011	3.0376
GUE ANGULARITY	GBR ANGULARITY	-5.5575	4.8445

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Conversion Factors For Type. Source = INTERBULL MACE 1904  
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)	1.3056	5.8538	0.66
GUE FEET AND LEGS	USA OVERALL FEET & LEG	1.1407	5.0812	
GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	1.1523	9.9589	
GUE STATURE	USA STATURE	0.0185	2.4889	
GUE CHEST WIDTH	USA STRENGTH	1.3429	4.8088	
GUE BODY DEPTH	USA BODY DEPTH	1.1066	3.3569	
GUE PIN WIDTH	USA THURL WIDTH	0.9200	4.4704	
GUE RUMP ANGLE	USA RUMP ANGLE	0.3878	3.8514	
GUE FOOT ANGLE	USA FOOT ANGLE	1.2224	8.1502	
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.1981	7.7392	
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	0.1607	9.0081	
GUE UDDER DEPTH	USA UDDER DEPTH	0.6639	3.6754	
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	-0.7953	5.1064	
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.1442	4.2135	
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.0139	3.9162	
GUE TEAT LENGTH	USA TEAT LENGTH	-0.5759	3.1122	
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.7055	3.5997	
GUE REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.5635	3.7759	
GUE ANGULARITY	USA DAIRY FORM	0.5021	3.7763	

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CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2019

BREED	BMILK	BFAT	BPRT
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AYS	7813	325	264
BSW	8633	366	305
CN	5913	254	210
GUE	6904	324	238
JER	6735	343	259
HOL	10397	407	336
MS	6689	264	222

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (407 + 50 * 0.5) / (10397 + 1000 * 0.5) - (407 / 1E4) ] \\
 &= 200 * [ (407 + 25) / (10397 + 500) - (0.03915) ] \\
 &= 200 * [ 0.03964 - 0.03915 ] \\
 &= 200 * 0.00050 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (336 + 40 * 0.5) / (10397 + 1000 * 0.5) - (336 / 1E4) ] \\
 &= 200 * [ (336 + 20) / (10397 + 500) - (0.03232) ] \\
 &= 200 * [ 0.03267 - 0.03232 ] \\
 &= 200 * 0.00035 \\
 &= 0.07
 \end{aligned}$$