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 Conversion Factors For Production Traits. Source: INTERBULL 1704
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-146.158	1.2355	-9.742	1.3627	-1.942	1.1655	0.5476
GUE	GBR	-282.900	2.6450	-10.100	2.6030	-7.400	2.5900	0.7225
GUE	NZL	890.379	1.5757	36.770	1.3302	34.955	1.4219	0.4900
GUE	USA	238.600	0.9810	-0.200	1.1180	5.700	1.0460	0.8464

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 Conversion Factors For SCS Traits. Source: INTERBULL 1704
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	2.294	0.0072	0.7744
GUE	GBR	2.900	0.0160	0.8649
GUE	NZL	2.931	0.3327	0.7569
GUE	USA	0.400	0.8590	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 1704
 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		-47.385	0.4873	0.2
9								
GUE	FEET AND LEGS		AUS	OVERALL FEET & LEG		-44.360	0.4509	
GUE	MAMMARY SYSTEM		AUS	OVERALL UDDER SCORE		-99.640	1.0003	
GUE	STATURE		AUS	STATURE		-124.203	1.2196	
GUE	CHEST WIDTH		AUS	CHEST WIDTH		-64.543	0.6535	
GUE	BODY DEPTH		AUS	BODY DEPTH		-87.705	0.8844	
GUE	PIN WIDTH		AUS	RUMP WIDTH		-119.428	1.1929	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-69.697	0.6917
GUE	FOOT ANGLE	AUS	FOOT ANGLE	-52.581	0.5406
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-88.549	0.8706
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-62.994	0.6334
GUE	UDDER DEPTH	AUS	UDDER DEPTH	-107.842	1.0871
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-75.609	0.7595
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-64.549	0.6572
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-70.358	0.7026
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-59.978	0.6134
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-79.787	0.7893
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-56.449	0.5739
GUE	ANGULARITY	AUS	ANGULARITY	-64.213	0.6440

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c		c	f				
	a		o	o		a	b	t
	n		u	r		v	v	c
b	t		n	t		a	a	o
r	r		t	r		l	l	r
e	a		r	a		u	u	r
e	i		y	i		e	e	r
d	t		2	t				2
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG		0.572	3.8278		
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE		-1.150	4.8054		
GUE	STATURE	GBR	STATURE		-6.457	5.7328		
GUE	CHEST WIDTH	GBR	CHEST WIDTH		-0.142	3.8507		
GUE	BODY DEPTH	GBR	BODY DEPTH		-1.907	3.9283		
GUE	PIN WIDTH	GBR	RUMP WIDTH		-1.127	4.4018		
GUE	RUMP ANGLE	GBR	RUMP ANGLE		-0.284	3.7326		
GUE	FOOT ANGLE	GBR	FOOT ANGLE		0.254	3.6934		

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.753	3.7015
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.043	3.7117
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.131	3.1954
GUE	FORE ATTACHMENT	GBR	FORE UDDER	0.182	4.4557
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.870	4.3487
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-0.692	2.3873
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.564	2.4877
GUE	ANGULARITY	GBR	ANGULARITY	-4.342	4.5588

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Conversion Factors For Type. Source = INTERBULL MACE 1704
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)	1.769	5.5820	0.6		
4								
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.182	4.7735			
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	1.608	9.7131			
GUE	STATURE	USA	STATURE	-0.214	2.5495			
GUE	CHEST WIDTH	USA	STRENGTH	1.184	4.7839			
GUE	BODY DEPTH	USA	BODY DEPTH	0.707	3.2289			
GUE	PIN WIDTH	USA	THURL WIDTH	0.720	4.3221			
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.271	3.7654			
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.528	8.0602			
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.304	7.1544			
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-0.133	8.6867			
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.829	3.5683			
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	-0.234	4.9629			

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	1.382	4.0623
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.224	3.7644
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.294	3.1229
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.345	3.2969
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	0.729	3.5540
GUE	ANGULARITY	USA	DAIRY FORM	0.498	3.4820

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2017

BREED	BMILK	BFAT	BPRT
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AYS	7670	318	259
BSW	8317	350	293
CN	5598	245	200
GUE	6801	319	235
JER	6521	328	250
HOL	10087	390	324
MS	6855	266	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(390+50*0.5)/(10087+1000*0.5)-(390/1E4)] \\
 &= 200 * [(390+25)/(10087+500)-(0.03866)] \\
 &= 200 * [0.03920 - 0.03866] \\
 &= 200 * 0.00054 \\
 &= 0.11
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(324+40*0.5)/(10087+1000*0.5)-(324/1E4)] \\
 &= 200 * [(324+20)/(10087+500)-(0.03212)] \\
 &= 200 * [0.03249 - 0.03212] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$