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 Conversion Factors For Production Traits. Source: INTERBULL 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-149.167	1.2266	-9.540	1.3653	-1.875	1.1616	0.5476
GUE	GBR	-297.800	2.5790	-10.600	2.5590	-7.900	2.5380	0.7225
GUE	NZL	877.868	1.5615	37.253	1.3358	34.764	1.4190	0.4900
GUE	USA	167.600	0.9710	-1.400	1.1200	3.800	1.0410	0.8464

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 Conversion Factors For SCS Traits. Source: INTERBULL 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	2.274	0.0073	0.7744
GUE	GBR	2.900	0.0160	0.8649
GUE	NZL	2.932	0.3344	0.7569
GUE	USA	0.400	0.8660	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 1708
 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		-47.389	0.4867	0.2
9							
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		-45.965	0.4647	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-98.165	0.9868	
GUE	STATURE	AUS	STATURE		-121.538	1.1954	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-66.141	0.6705	
GUE	BODY DEPTH	AUS	BODY DEPTH		-90.657	0.9136	
GUE	PIN WIDTH	AUS	RUMP WIDTH		-121.367	1.2131	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-72.463	0.7192
GUE	FOOT ANGLE	AUS	FOOT ANGLE	-56.099	0.5748
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-93.362	0.9182
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-62.504	0.6280
GUE	UDDER DEPTH	AUS	UDDER DEPTH	-111.868	1.1276
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-76.514	0.7697
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-64.518	0.6590
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-71.953	0.7205
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-58.731	0.5984
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-81.679	0.8076
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-55.093	0.5631
GUE	ANGULARITY	AUS	ANGULARITY	-64.210	0.6434

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	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	a		u	u
e	i	2	i		e	e
d	t	2	t			
						t
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	0.326	3.7984	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.290	4.8152	
GUE	STATURE	GBR	STATURE	-6.164	5.5220	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.224	3.9121	
GUE	BODY DEPTH	GBR	BODY DEPTH	-2.137	3.9077	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.056	4.4913	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.342	3.7734	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	0.086	3.8814	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.586	3.7187
GUE	UDDER DEPTH	GBR	UDDER DEPTH	-0.089	3.7938
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.244	3.2381
GUE	FORE ATTACHMENT	GBR	FORE UDDER	0.163	4.4749
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.931	4.4307
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-0.705	2.3864
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.831	2.4971
GUE	ANGULARITY	GBR	ANGULARITY	-4.379	4.5466

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

country2=USA

		c		f			
		a	o	o		a	b
		n	u	r		v	v
b	t	n	t	r		a	a
r	r	r	Y	a		l	l
e	a	i	2	i		u	u
e	i	t		t		e	e
d	t						2
GUE	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	1.568	5.6076	0.6	
4							
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	0.988	4.8327		
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	1.466	9.6544		
GUE	STATURE	USA	STATURE	-0.147	2.4772		
GUE	CHEST WIDTH	USA	STRENGTH	1.158	4.8385		
GUE	BODY DEPTH	USA	BODY DEPTH	0.625	3.2690		
GUE	PIN WIDTH	USA	THURL WIDTH	0.772	4.4361		
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.275	3.8358		
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.498	8.4248		
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.164	7.3631		
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-0.102	8.7638		
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.709	3.6013		
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	-0.318	5.1377		

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	1.349	4.0642
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.229	3.8501
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.342	3.0683
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.590	3.3093
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	0.749	3.5619
GUE	ANGULARITY	USA	DAIRY FORM	0.409	3.4708

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2017

BREED	BMILK	BFAT	BPRT
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AYS	7672	318	260
BSW	8289	350	293
CN	5609	247	202
GUE	6821	320	235
JER	6532	329	250
HOL	10090	390	324
MS	6661	257	220

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

EBVFAT% = $200 * [(390 + 50 * 0.5) / (10090 + 1000 * 0.5) - (390 / 1E4)]$
 = $200 * [(390 + 25) / (10090 + 500) - (0.03865)]$
 = $200 * [0.03919 - 0.03865]$
 = $200 * 0.00054$
 = 0.11

EBVPROT% = $200 * [(324 + 40 * 0.5) / (10090 + 1000 * 0.5) - (324 / 1E4)]$
 = $200 * [(324 + 20) / (10090 + 500) - (0.03211)]$
 = $200 * [0.03248 - 0.03211]$
 = $200 * 0.00037$
 = 0.07