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 Conversion Factors For Production Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-150.850	1.2246	-8.985	1.3597	-1.928	1.1627	0.5329
GUE	GBR	-269.900	2.5940	-7.400	2.5410	-7.400	2.6070	0.7225
GUE	NZL	879.826	1.5694	37.279	1.3372	34.771	1.4290	0.4900
GUE	USA	167.700	0.9710	-1.100	1.1190	4.000	1.0430	0.8464

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 Conversion Factors For SCS Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	2.302	0.0072	0.7569
GUE	GBR	2.900	0.0150	0.8649
GUE	NZL	2.935	0.3294	0.7569
GUE	USA	0.400	0.8710	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 1712
 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		-49.248	0.5045	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		-46.648	0.4703	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-101.742	1.0213	
GUE	STATURE	AUS	STATURE		-123.856	1.2176	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-66.367	0.6720	
GUE	BODY DEPTH	AUS	BODY DEPTH		-92.148	0.9285	
GUE	PIN WIDTH	AUS	RUMP WIDTH		-123.006	1.2283	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-72.446	0.7200
GUE	FOOT ANGLE	AUS	FOOT ANGLE	-55.968	0.5712
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-92.379	0.9076
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-65.593	0.6585
GUE	UDDER DEPTH	AUS	UDDER DEPTH	-113.745	1.1450
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-76.618	0.7704
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-65.380	0.6668
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-73.250	0.7345
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-60.975	0.6212
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-83.863	0.8292
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-56.520	0.5789
GUE	ANGULARITY	AUS	ANGULARITY	-71.246	0.7127

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Converted Canadian Proof = A + (B* Foreign Proof)
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
						c
						o
						r
						r
						2
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	0.106	3.9191	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.146	5.0819	
GUE	STATURE	GBR	STATURE	-6.085	5.6924	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.249	3.9384	
GUE	BODY DEPTH	GBR	BODY DEPTH	-2.245	3.9418	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.012	4.5463	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.113	3.8539	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	0.133	3.7674	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.996	3.6668
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.032	3.8749
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.246	3.3164
GUE	FORE ATTACHMENT	GBR	FORE UDDER	0.227	4.6575
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.597	4.5266
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-0.921	2.4933
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.856	2.7220
GUE	ANGULARITY	GBR	ANGULARITY	-4.370	4.7798

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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						
							t
							c
							o
							r
							r
							2
GUE	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	1.480	5.7763	0.6	
4							
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	0.891	4.9513		
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	1.427	9.9019		
GUE	STATURE	USA	STATURE	-0.193	2.5279		
GUE	CHEST WIDTH	USA	STRENGTH	1.148	4.9048		
GUE	BODY DEPTH	USA	BODY DEPTH	0.697	3.3383		
GUE	PIN WIDTH	USA	THURL WIDTH	0.684	4.4765		
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.344	3.8622		
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.263	8.0793		
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.251	7.1847		
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-0.174	8.9782		
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.672	3.6391		
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	-0.349	5.1818		

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	1.250	4.1290
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.229	3.8308
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.383	3.1074
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.598	3.3961
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	0.859	3.5405
GUE	ANGULARITY	USA	DAIRY FORM	0.350	3.5938

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2017

BREED	BMILK	BFAT	BPRT
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AYS	7672	318	259
BSW	8298	351	293
CN	5624	246	202
GUE	6778	314	234
JER	6549	329	251
HOL	10093	391	324
MS	6673	258	221

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(391+50*0.5)/(10093+1000*0.5)-(391/1E4)] \\
 &= 200 * [(391+25)/(10093+500)-(0.03874)] \\
 &= 200 * [0.03927 - 0.03874] \\
 &= 200 * 0.00053 \\
 &= 0.11
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(324+40*0.5)/(10093+1000*0.5)-(324/1E4)] \\
 &= 200 * [(324+20)/(10093+500)-(0.03210)] \\
 &= 200 * [0.03247 - 0.03210] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$