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 Conversion Factors For Production Traits. Source: INTERBULL 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-141.525	1.2672	-8.548	1.3323	-0.743	1.1799	0.5329
GUE	GBR	-297.600	2.7960	-5.800	2.4530	-7.200	2.7470	0.7225
GUE	NZL	910.763	1.6099	37.473	1.3232	36.611	1.4679	0.4900
GUE	USA	155.500	1.0010	-2.000	1.1140	4.000	1.0800	0.8281

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 Conversion Factors For SCS Traits. Source: INTERBULL 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	2.287	0.0074	0.7569
GUE	GBR	2.900	0.0160	0.8649
GUE	NZL	2.935	0.3334	0.7569
GUE	USA	0.300	0.8860	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 1808
 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		-52.084	0.5265	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		-46.984	0.4749	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-110.231	1.1038	
GUE	STATURE	AUS	STATURE		-126.258	1.2398	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-71.850	0.7223	
GUE	BODY DEPTH	AUS	BODY DEPTH		-100.112	1.0048	
GUE	PIN WIDTH	AUS	RUMP WIDTH		-121.928	1.2148	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-74.189	0.7344
GUE	FOOT ANGLE	AUS	FOOT ANGLE	-55.028	0.5629
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-98.691	0.9669
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-88.872	0.8901
GUE	UDDER DEPTH	AUS	UDDER DEPTH	-125.407	1.2607
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-76.844	0.7709
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-73.975	0.7520
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-76.035	0.7624
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-66.590	0.6767
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-83.699	0.8227
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-67.019	0.6827
GUE	ANGULARITY	AUS	ANGULARITY	-71.378	0.7101

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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	i		u	u
e	i	2	t		e	e
d	t					
						t
						c
						o
						r
						r
						2
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	1.154	4.0063	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.140	5.0486	
GUE	STATURE	GBR	STATURE	-5.524	5.6284	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.193	3.9529	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.962	4.1441	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-0.808	4.5679	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.479	3.7937	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	0.881	3.7232	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.087	3.5308
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.329	3.8758
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.961	3.8270
GUE	FORE ATTACHMENT	GBR	FORE UDDER	0.732	4.5332
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.115	4.5190
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.447	2.4863
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.207	3.0885
GUE	ANGULARITY	GBR	ANGULARITY	-3.786	4.7251

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Converted Canadian Proof = A + (B* Foreign Proof)
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country2=USA

	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			2
GUE	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	1.421	5.8461	0.6
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GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	0.604	5.1854	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	1.311	9.9753	
GUE	STATURE	USA	STATURE	-0.024	2.5416	
GUE	CHEST WIDTH	USA	STRENGTH	1.067	4.8925	
GUE	BODY DEPTH	USA	BODY DEPTH	0.921	3.4443	
GUE	PIN WIDTH	USA	THURL WIDTH	0.882	4.5614	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.228	3.8835	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.277	7.9351	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.185	7.5267	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.164	8.8575	
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.766	3.6651	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	-0.464	5.1994	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	1.319	4.1325
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.166	3.8372
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.664	3.0838
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.998	3.4762
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	0.839	3.5887
GUE	ANGULARITY	USA	DAIRY FORM	0.360	3.6625

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2018

BREED	BMILK	BFAT	BPRT
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AYS	7802	325	263
BSW	8550	359	301
CN	5896	253	207
GUE	6583	305	225
JER	6643	336	255
HOL	10228	399	329
MS	6829	270	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(399 + 50 * 0.5) / (10228 + 1000 * 0.5) - (399 / 1E4)] \\
 &= 200 * [(399 + 25) / (10228 + 500) - (0.03901)] \\
 &= 200 * [0.03952 - 0.03901] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(329 + 40 * 0.5) / (10228 + 1000 * 0.5) - (329 / 1E4)] \\
 &= 200 * [(329 + 20) / (10228 + 500) - (0.03217)] \\
 &= 200 * [0.03253 - 0.03217] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$