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 Conversion Factors For Production Traits. Source: INTERBULL 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-421.018	1.2688	-17.751	1.3097	-10.874	1.1373	0.4624
GUE	GBR	-473.591	2.4713	-17.126	2.4806	-15.459	2.5206	0.7056
GUE	NZL	585.911	1.4698	21.995	1.1489	22.183	1.1315	0.3721
GUE	USA	37.200	0.9120	-3.400	1.0210	0.200	0.9990	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.639	-20.2689	0.6561
GUE	GBR	102.754	-0.4095	0.8649
GUE	NZL	102.472	-7.3489	0.5776
GUE	USA	170.200	-23.3650	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 2304
 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		0.4320	5.6177	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.7109	5.1902	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-0.0327	5.3341	
GUE	STATURE	AUS	STATURE		-1.3361	7.0670	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-1.3364	14.5017	
GUE	BODY DEPTH	AUS	BODY DEPTH		-0.1202	11.3124	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.5896	9.4324	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.2953	7.6975
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.4972	20.5486
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.7228	19.0782
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.5273	22.6000
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.7597	10.4821
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.0196	17.7500
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.0319	15.5039
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.3554	13.9095
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.8974	4.6340
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-2.0138	14.8645
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.6233	13.9569
GUE	ANGULARITY	AUS	ANGULARITY	-0.9859	13.4465

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	t	n	t	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	0.9157	3.1834	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.8696	4.1346	
GUE	STATURE	GBR	STATURE	-5.9771	5.1612	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.2747	3.4337	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.6625	3.4982	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.4845	4.1089	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.1359	3.6671	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.2612	3.9100	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.2271	3.8022
GUE	UDDER DEPTH	GBR	UDDER DEPTH	1.0246	4.3591
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.2851	3.2856
GUE	FORE ATTACHMENT	GBR	FORE UDDER	2.2594	4.8503
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.1421	4.3794
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.1941	2.3388
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.4857	2.5805
GUE	ANGULARITY	GBR	ANGULARITY	-4.0920	4.0989

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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)	1.7239	6.9862	0.5
5						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.2520	5.7332	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.7456	8.7815	
GUE	STATURE	USA	STATURE	-0.2440	2.3332	
GUE	CHEST WIDTH	USA	STRENGTH	0.4539	4.1364	
GUE	BODY DEPTH	USA	BODY DEPTH	0.3439	2.9304	
GUE	PIN WIDTH	USA	THURL WIDTH	0.7842	3.7610	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.1357	3.1401	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.8447	8.4128	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.9363	9.4299	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.7896	6.8678	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.5939	3.3310	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.1581	4.1030	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.5453	3.8823
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.9299	3.5496
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.6661	2.2332
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.4675	4.0006
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.6484	3.1512
GUE	ANGULARITY	USA	DAIRY FORM	0.1839	3.6110

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2023

BREED	BMILK	BFAT	BPRT
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AYS	8071	337	277
BSW	8728	369	313
CN	5590	242	201
GUE	7470	339	257
JER	7090	366	276
HOL	10959	437	361
MS	6969	278	237

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(437+50*.5) / (10959+1000*.5) - (437/11E3)] \\
 &= 200 * [(437+25) / (10959+500) - (0.03988)] \\
 &= 200 * [0.04032 - 0.03988] \\
 &= 200 * 0.00044 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(361+40*.5) / (10959+1000*.5) - (361/11E3)] \\
 &= 200 * [(361+20) / (10959+500) - (0.03294)] \\
 &= 200 * [0.03325 - 0.03294] \\
 &= 200 * 0.00031 \\
 &= 0.06
 \end{aligned}$$