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 Conversion Factors For Production Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-312.691	1.2682	-14.138	1.3109	-7.855	1.1427	0.4624
GUE	GBR	-313.503	2.6432	-10.572	2.5071	-10.348	2.6010	0.7225
GUE	NZL	706.390	1.4510	25.630	1.1521	25.370	1.1178	0.3721
GUE	USA	144.200	0.9150	0.000	1.0230	3.200	1.0100	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.577	-20.8318	0.6561
GUE	GBR	102.704	-0.4188	0.8464
GUE	NZL	102.478	-7.5101	0.5929
GUE	USA	168.900	-22.9200	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 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		0.2954	5.7440	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.6434	5.2146	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-0.2515	5.2311	
GUE	STATURE	AUS	STATURE		-1.3006	6.9735	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-1.0331	14.6067	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.1098	11.1910	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.6820	9.1440	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.1646	7.5073
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.0910	20.3648
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.6430	18.7459
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.5057	22.2452
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.5554	10.1868
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	0.6773	17.6198
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.2902	15.4643
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.6162	13.7542
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.7209	4.6349
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.9136	14.6961
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.3762	13.9648
GUE	ANGULARITY	AUS	ANGULARITY	-0.8084	13.3645

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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	0.8588	3.3894	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.6620	4.0947	
GUE	STATURE	GBR	STATURE	-6.0517	5.2381	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.1927	3.6073	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.6037	3.6076	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.5339	4.1943	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	0.0803	3.6974	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	0.8753	4.0108	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.2639	3.8206
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.6908	3.9831
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.5995	3.1890
GUE	FORE ATTACHMENT	GBR	FORE UDDER	1.9117	4.4786
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.0188	4.4089
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.2356	2.3839
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.5573	2.4735
GUE	ANGULARITY	GBR	ANGULARITY	-4.1182	4.1134

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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)	1.9847	7.1641	0.5
5						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.4429	5.7769	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.9276	8.7055	
GUE	STATURE	USA	STATURE	-0.2417	2.3078	
GUE	CHEST WIDTH	USA	STRENGTH	0.7497	4.0788	
GUE	BODY DEPTH	USA	BODY DEPTH	0.5586	2.8665	
GUE	PIN WIDTH	USA	THURL WIDTH	0.9569	3.5980	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.3141	3.0496	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.7308	8.3236	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.0743	9.3499	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.8953	6.8333	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.6047	3.2369	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.1386	4.0923	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.5812	3.8883
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.9597	3.5061
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.7579	2.2181
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.3423	3.9503
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.5650	3.1453
GUE	ANGULARITY	USA	DAIRY FORM	0.2027	3.6013

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2022

BREED	BMILK	BFAT	BPRT
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AYS	8022	335	275
BSW	8509	362	304
CN	5772	250	212
GUE	6832	315	242
JER	7049	363	274
HOL	10836	431	355
MS	7483	287	248

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

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

EXAMPLE:

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

$$EBVFAT\% = 200 * [(431+50*0.5) / (10836+1000*0.5) - (431/11136)]$$

$$= 200 * [(431+25) / (10836+500) - (0.03977)]$$

$$= 200 * [0.04023 - 0.03977]$$

$$= 200 * 0.00045$$

$$= 0.09$$

$$EBVPROT\% = 200 * [(355+40*0.5) / (10836+1000*0.5) - (355/11136)]$$

$$= 200 * [(355+20) / (10836+500) - (0.03276)]$$

$$= 200 * [0.03308 - 0.03276]$$

$$= 200 * 0.00032$$

$$= 0.06$$