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 Conversion Factors For Production Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-398.166	1.2696	-17.684	1.3119	-10.122	1.1400	0.4624
GUE	GBR	-466.314	2.4837	-16.914	2.4891	-14.906	2.5253	0.7056
GUE	NZL	592.134	1.4713	22.119	1.1499	22.570	1.1307	0.3721
GUE	USA	42.500	0.9200	-3.200	1.0260	0.600	1.0080	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.298	-20.3203	0.6561
GUE	GBR	102.487	-0.4060	0.8649
GUE	NZL	102.144	-7.2664	0.5776
GUE	USA	167.600	-22.5030	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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		0.3248	5.6278	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.7578	5.2505	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-0.2097	5.2877	
GUE	STATURE	AUS	STATURE		-1.4099	7.0246	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-1.2980	14.6308	
GUE	BODY DEPTH	AUS	BODY DEPTH		-0.1095	11.4215	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.5493	9.4804	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.2728	7.7230
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.5888	20.9113
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.8179	19.1949
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.5202	22.8242
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.7127	10.5438
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	0.9737	17.6518
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.1491	15.5091
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.4535	13.6833
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.9188	4.6270
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-2.1063	14.5450
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.6066	13.8897
GUE	ANGULARITY	AUS	ANGULARITY	-1.1161	13.3242

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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	t	r		l	l
e	a	r	a		u	u
e	i	y	i		e	e
d	t	2	t			
						t
						c
						o
						r
						r
						2
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	0.9359	3.2739	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.8126	4.1513	
GUE	STATURE	GBR	STATURE	-6.1229	5.2309	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.2706	3.5255	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.7273	3.6100	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.5303	4.1825	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.1580	3.7500	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.2164	4.0568	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.1687	3.8802
GUE	UDDER DEPTH	GBR	UDDER DEPTH	1.0045	4.3604
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.1839	3.3580
GUE	FORE ATTACHMENT	GBR	FORE UDDER	2.1998	4.8183
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.0925	4.3820
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.1277	2.3335
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.4687	2.5517
GUE	ANGULARITY	GBR	ANGULARITY	-4.2000	4.1897

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

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)	1.6089	6.9860	0.5
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GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.2466	5.7889	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.6141	8.6885	
GUE	STATURE	USA	STATURE	-0.3740	2.3250	
GUE	CHEST WIDTH	USA	STRENGTH	0.3856	4.1950	
GUE	BODY DEPTH	USA	BODY DEPTH	0.3743	2.9472	
GUE	PIN WIDTH	USA	THURL WIDTH	0.7361	3.7794	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.0957	3.1461	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.8042	8.5717	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.8955	9.5411	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.9097	6.6668	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.5677	3.3558	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.2604	4.0783	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.4804	3.8622
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.8015	3.5079
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.6044	2.2242
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.5605	3.9527
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.6203	3.1367
GUE	ANGULARITY	USA	DAIRY FORM	0.1335	3.5887

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2023

BREED	BMILK	BFAT	BPRT
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AYS	8079	337	277
BSW	8742	370	313
CN	5847	253	210
GUE	7418	335	255
JER	7090	366	276
HOL	10961	437	361
MS	6971	275	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

$$\begin{aligned}
 \text{EBVFAT\%} &= 200 * [(437 + 50 * 0.5) / (10961 + 1000 * 0.5) - (437 / 111E3)] \\
 &= 200 * [(437 + 25) / (10961 + 500) - (0.03987)] \\
 &= 200 * [0.04031 - 0.03987] \\
 &= 200 * 0.00044 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 \text{EBVPROT\%} &= 200 * [(361 + 40 * 0.5) / (10961 + 1000 * 0.5) - (361 / 111E3)] \\
 &= 200 * [(361 + 20) / (10961 + 500) - (0.03293)] \\
 &= 200 * [0.03324 - 0.03293] \\
 &= 200 * 0.00031 \\
 &= 0.06
 \end{aligned}$$