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 Conversion Factors For Production Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-423.225	1.2889	-18.644	1.3550	-10.940	1.1600	0.4356
GUE	GBR	-461.387	2.5919	-16.219	2.5533	-15.849	2.6012	0.7056
GUE	NZL	580.238	1.5284	21.367	1.1802	21.789	1.1701	0.3844
GUE	USA	20.000	0.9440	-3.100	1.0580	-0.200	0.9870	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.183	-20.7784	0.6561
GUE	GBR	102.678	-0.4092	0.8464
GUE	NZL	102.018	-7.2321	0.5625
GUE	USA	168.400	-22.7420	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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		0.6106	5.9020	0.3
5							
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.8204	5.1579	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		0.5677	5.3130	
GUE	STATURE	AUS	STATURE		-1.2936	6.8329	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-1.0080	14.9662	
GUE	BODY DEPTH	AUS	BODY DEPTH		-0.0773	11.5969	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.6724	9.2276	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.0674	8.0171
GUE	FOOT ANGLE	AUS	FOOT ANGLE	2.1531	20.8523
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.0513	18.4601
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.2347	22.1023
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.9899	10.9072
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.1774	17.3091
GUE	FORE ATTACHMENT	AUS	FORE UDDER	0.7530	15.4210
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-0.9842	13.5066
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.7841	4.8010
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.6446	14.0751
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	1.6337	13.5120
GUE	ANGULARITY	AUS	ANGULARITY	-0.7981	13.5954

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Conversion Factors For Type. Source = INTERBULL MACE 2408
Converted Canadian Proof = A + (B* Foreign Proof)
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	1.1515	3.0441	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	1.2642	4.0796	
GUE	STATURE	GBR	STATURE	-6.1688	5.1536	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0720	3.4276	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.7440	3.5515	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.4618	4.1668	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.4390	3.7871	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.4394	3.9540	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.0546	3.5963
GUE	UDDER DEPTH	GBR	UDDER DEPTH	1.3722	4.3010
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	0.3154	3.4121
GUE	FORE ATTACHMENT	GBR	FORE UDDER	2.5299	4.8555
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.3767	4.2496
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.0992	2.2731
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.1479	2.5553
GUE	ANGULARITY	GBR	ANGULARITY	-4.0960	4.1646

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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			
	n	u	r	a	b	t
b	t	n	t	v	v	c
r	r	t	r	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	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	1.3808	6.9626	0.5
3						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	0.9963	5.7993	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.4397	8.7806	
GUE	STATURE	USA	STATURE	-0.5324	2.3344	
GUE	CHEST WIDTH	USA	STRENGTH	0.2922	4.1516	
GUE	BODY DEPTH	USA	BODY DEPTH	0.2152	2.8916	
GUE	PIN WIDTH	USA	THURL WIDTH	0.5681	3.8259	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.0992	3.1465	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.5994	8.6900	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.7166	8.9344	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.9214	6.7031	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.4712	3.3206	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.1723	4.1273	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.2724	3.8726
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.7271	3.4231
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.5845	2.2324
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.6358	4.0009
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.4292	3.1322
GUE	ANGULARITY	USA	DAIRY FORM	-0.1039	3.5418

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2024

BREED	BMILK	BFAT	BPRT
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AYS	8168	340	281
BSW	8791	374	314
CN	5568	240	201
GUE	7268	337	256
JER	7180	370	281
HOL	11058	443	366
MS	7222	291	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(443+50*0.5) / (11058+1000*0.5) - (443/11058)] \\
 &= 200 * [(443+25) / (11058+500) - (0.04006)] \\
 &= 200 * [0.04049 - 0.04006] \\
 &= 200 * 0.00043 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(366+40*0.5) / (11058+1000*0.5) - (366/11058)] \\
 &= 200 * [(366+20) / (11058+500) - (0.03310)] \\
 &= 200 * [0.03340 - 0.03310] \\
 &= 200 * 0.00030 \\
 &= 0.06
 \end{aligned}$$