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 Conversion Factors For Production Traits. Source: INTERBULL 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-446.475	1.2911	-19.653	1.3520	-11.896	1.1673	0.4356
GUE	GBR	-519.992	2.5957	-18.084	2.5475	-17.198	2.6088	0.7056
GUE	NZL	567.844	1.5366	21.006	1.1812	21.382	1.1809	0.3844
GUE	USA	-4.600	0.9650	-5.000	1.0520	-1.000	1.0390	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.174	-21.0655	0.6561
GUE	GBR	102.607	-0.4096	0.8464
GUE	NZL	102.027	-7.3240	0.5625
GUE	USA	166.600	-22.1520	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 2404
 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		0.5301	5.9241	0.3
5							
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.9486	5.1954	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		0.5757	5.3109	
GUE	STATURE	AUS	STATURE		-1.2790	6.7839	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-0.9966	14.9453	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.0055	11.7718	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.7016	9.1666	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.0935	8.0041
GUE	FOOT ANGLE	AUS	FOOT ANGLE	2.1989	20.7597
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.2576	19.1386
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.3152	22.1526
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.9484	10.9781
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.1493	17.2062
GUE	FORE ATTACHMENT	AUS	FORE UDDER	0.7191	15.5986
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.0345	14.0449
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.8229	4.7921
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.6483	13.8754
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	1.6130	13.6274
GUE	ANGULARITY	AUS	ANGULARITY	-0.7829	13.8215

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Converted Canadian Proof = A + (B* Foreign Proof)
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	a		l	l
e	a	y	i		u	u
e	i	2	t		e	e
d	t					
						t
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	1.2130	3.0663	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	1.1963	4.0269	
GUE	STATURE	GBR	STATURE	-6.2963	5.1188	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0914	3.4223	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.6908	3.5655	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.4731	4.1093	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.4442	3.7972	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.4103	3.9289	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.1767	3.6807
GUE	UDDER DEPTH	GBR	UDDER DEPTH	1.1444	4.3658
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	0.1922	3.3863
GUE	FORE ATTACHMENT	GBR	FORE UDDER	2.4622	4.8801
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.2982	4.3742
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.0849	2.2552
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.2194	2.4740
GUE	ANGULARITY	GBR	ANGULARITY	-4.2903	4.1767

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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)	1.4026	6.9889	0.5
3						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.0895	5.8720	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.4150	8.7348	
GUE	STATURE	USA	STATURE	-0.4775	2.3223	
GUE	CHEST WIDTH	USA	STRENGTH	0.4285	4.1879	
GUE	BODY DEPTH	USA	BODY DEPTH	0.3168	2.9810	
GUE	PIN WIDTH	USA	THURL WIDTH	0.5855	3.8028	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.1243	3.1382	
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.6298	8.6865	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.8398	9.3140	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	1.0496	6.6033	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.4252	3.3344	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.1401	4.1051	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.2925	3.9007
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.6960	3.5442
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.5299	2.2124
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.6525	3.9001
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.4168	3.1507
GUE	ANGULARITY	USA	DAIRY FORM	-0.0876	3.5889

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2024

BREED	BMILK	BFAT	BPRT
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AYS	8203	342	282
BSW	8779	374	314
CN	5591	241	203
GUE	7216	335	253
JER	7169	370	280
HOL	11061	443	366
MS	7112	285	244

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(443+50*0.5) / (11061+1000*0.5) - (443/11061)] \\
 &= 200 * [(443+25) / (11061+500) - (0.04005)] \\
 &= 200 * [0.04048 - 0.04005] \\
 &= 200 * 0.00043 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(366+40*0.5) / (11061+1000*0.5) - (366/11061)] \\
 &= 200 * [(366+20) / (11061+500) - (0.03309)] \\
 &= 200 * [0.03339 - 0.03309] \\
 &= 200 * 0.00030 \\
 &= 0.06
 \end{aligned}$$