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 Conversion Factors For Production Traits. Source: INTERBULL 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-346.964	1.2635	-15.223	1.3456	-9.239	1.1557	0.4761
GUE	GBR	-347.279	2.6007	-12.125	2.5475	-11.946	2.6029	0.7225
GUE	NZL	686.858	1.4232	25.078	1.1445	23.962	1.0763	0.3600
GUE	USA	115.200	0.9050	-0.700	1.0240	2.100	0.9940	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.344	-21.0909	0.6724
GUE	GBR	102.746	-0.4237	0.8464
GUE	NZL	102.462	-7.6822	0.5929
GUE	USA	168.700	-22.8780	0.8649

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 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		0.6513	5.8077	0.3
4							
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.9532	5.2036	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		0.0995	5.1866	
GUE	STATURE	AUS	STATURE		-1.2620	6.8269	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-0.9134	14.4667	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.3203	11.0853	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.8706	9.1649	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.2350	7.5911
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.2081	19.7060
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.5548	18.6210
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.2989	22.4590
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.7515	10.1958
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.0584	17.5546
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.1571	15.3015
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.5558	13.4960
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.7617	4.6298
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.6438	14.9007
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.5703	14.0700
GUE	ANGULARITY	AUS	ANGULARITY	-0.5134	13.2245

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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	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	1.2360	3.4174	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.7219	4.0766	
GUE	STATURE	GBR	STATURE	-5.9735	5.1158	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0148	3.5240	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.5597	3.5502	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.2631	4.1774	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.0620	3.7595	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.2139	3.8538	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.3411	3.7494
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.8260	3.9389
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.6375	3.1599
GUE	FORE ATTACHMENT	GBR	FORE UDDER	2.0772	4.4171
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.0400	4.3510
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.0973	2.3450
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.4193	2.4950
GUE	ANGULARITY	GBR	ANGULARITY	-4.0883	4.0838

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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)	2.5416	7.0635	0.5
6						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	2.0209	5.3977	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	3.2578	8.6551	
GUE	STATURE	USA	STATURE	-0.1334	2.2398	
GUE	CHEST WIDTH	USA	STRENGTH	1.0249	4.0018	
GUE	BODY DEPTH	USA	BODY DEPTH	0.7542	2.7841	
GUE	PIN WIDTH	USA	THURL WIDTH	1.3130	3.5073	
GUE	RUMP ANGLE	USA	RUMP ANGLE	-0.0921	3.0447	
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.2635	7.8422	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.0831	8.9533	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	1.0057	7.0290	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.6334	3.1959	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.3038	4.0544	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.8275	3.8104
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	1.1567	3.4226
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.4903	2.1758
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	0.1093	3.9345
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.6731	3.1287
GUE	ANGULARITY	USA	DAIRY FORM	0.6127	3.4411

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2022

BREED	BMILK	BFAT	BPRT
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AYS	8014	334	275
BSW	8483	359	303
CN	5938	257	216
GUE	6927	318	245
JER	7049	364	274
HOL	10834	430	355
MS	7485	288	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(430+50*.5) / (10834+1000*.5) - (430/11E3)] \\
 &= 200 * [(430+25) / (10834+500) - (0.03969)] \\
 &= 200 * [0.04014 - 0.03969] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(355+40*.5) / (10834+1000*.5) - (355/11E3)] \\
 &= 200 * [(355+20) / (10834+500) - (0.03277)] \\
 &= 200 * [0.03309 - 0.03277] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$