

-----  
 -  
 Conversion Factors For Production Traits. Source: INTERBULL 2104  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-255.034	1.2945	-14.920	1.3366	-7.141	1.2147	0.4900
GUE	GBR	-417.500	2.7620	-14.300	2.5820	-14.100	2.8460	0.7225
GUE	NZL	716.755	1.7986	26.678	1.4364	27.558	1.3962	0.3481
GUE	USA	197.300	0.9120	-1.500	1.0000	3.600	0.9840	0.8281

-----  
 -  
 Conversion Factors For SCS Traits. Source: INTERBULL 2104  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.425	-22.1809	0.7056
GUE	GBR	102.732	-0.4188	0.8464
GUE	NZL	102.692	-7.9129	0.6400
GUE	USA	165.400	-21.7760	0.8464

-----  
 -  
 Conversion Factors For Type. Source = INTERBULL MACE 2104  
 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		0.6315	5.7584	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		1.2953	5.7614	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		0.1539	5.1182	
GUE	STATURE	AUS	STATURE		-1.1090	6.8790	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-0.7431	14.4411	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.4269	11.0163	
GUE	PIN WIDTH	AUS	RUMP WIDTH		1.0825	9.0924	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.2385	7.7370
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.5052	20.8034
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.5080	19.0601
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.1910	22.6034
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.7379	10.4215
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.1184	17.8360
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.2475	15.4138
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.4025	13.3546
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.7530	4.5691
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.6616	14.4489
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.7292	14.3031
GUE	ANGULARITY	AUS	ANGULARITY	-0.3679	13.4092

-----  
 -  
 Conversion Factors For Type. Source = INTERBULL MACE 2104  
 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	1.5100	4.0129	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.3630	4.0183	
GUE	STATURE	GBR	STATURE	-5.4435	5.0337	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0209	3.5842	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.2955	3.4917	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.0619	4.1701	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.3337	3.9052	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.5099	3.9273	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.3162	3.7781
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.7716	3.7162
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.7960	3.0405
GUE	FORE ATTACHMENT	GBR	FORE UDDER	1.8429	4.0390
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.1173	4.2719
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.0926	2.2849
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.5579	2.3874
GUE	ANGULARITY	GBR	ANGULARITY	-3.7592	3.9703

-----  
-  
Conversion Factors For Type. Source = INTERBULL MACE 2104  
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)	2.9017	7.3636	0.6
2						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	2.7403	6.2685	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	3.3314	8.4634	
GUE	STATURE	USA	STATURE	0.1712	2.2331	
GUE	CHEST WIDTH	USA	STRENGTH	1.1794	3.9710	
GUE	BODY DEPTH	USA	BODY DEPTH	0.8831	2.6932	
GUE	PIN WIDTH	USA	THURL WIDTH	1.5943	3.4746	
GUE	RUMP ANGLE	USA	RUMP ANGLE	-0.3129	3.0823	
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.6655	8.0150	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.9267	8.8869	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	1.4176	7.1590	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.7240	3.2046	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.1105	3.9712	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.8580	3.7874
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	1.3233	3.3456
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.5272	2.1353
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	0.2009	3.5481
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.9515	3.1319
GUE	ANGULARITY	USA	DAIRY FORM	0.9088	3.6105

-----

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2021

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	7937	332	272
BSW	8455	361	303
CN	5698	249	206
GUE	7048	329	249
JER	6989	360	271
HOL	10718	424	350
MS	6898	276	229

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (424+50*0.5) / (10718+1000*0.5) - (424/11E3) ] \\
 &= 200 * [ (424+25) / (10718+500) - (0.03956) ] \\
 &= 200 * [ 0.04002 - 0.03956 ] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (350+40*0.5) / (10718+1000*0.5) - (350/11E3) ] \\
 &= 200 * [ (350+20) / (10718+500) - (0.03266) ] \\
 &= 200 * [ 0.03298 - 0.03266 ] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$