

-----  
 -  
 Conversion Factors For Production Traits. Source: INTERBULL 2108  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-245.965	1.2901	-14.405	1.3313	-6.700	1.2145	0.4900
GUE	GBR	-387.100	2.7100	-12.700	2.5530	-12.800	2.7980	0.7225
GUE	NZL	712.275	1.7821	26.679	1.4216	27.558	1.3823	0.3481
GUE	USA	208.400	0.8980	-0.800	0.9850	4.100	0.9650	0.8281

-----  
 -  
 Conversion Factors For SCS Traits. Source: INTERBULL 2108  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.361	-22.1027	0.7056
GUE	GBR	102.943	-0.4232	0.8464
GUE	NZL	102.793	-8.0111	0.6400
GUE	USA	167.500	-22.4840	0.8464

-----  
 -  
 Conversion Factors For Type. Source = INTERBULL MACE 2108  
 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		0.5975	5.8172	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		1.3313	5.6974	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		0.0719	5.1440	
GUE	STATURE	AUS	STATURE		-1.2501	6.8321	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-0.7183	14.4258	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.5230	10.9829	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.9245	9.0668	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.1788	7.5913
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.4456	20.2640
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.3924	19.0690
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.2686	22.8686
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.5335	10.3706
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.1758	17.8908
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.3617	15.4068
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.5099	13.4057
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.8003	4.6091
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.7310	14.7137
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.5630	14.3308
GUE	ANGULARITY	AUS	ANGULARITY	-0.3104	13.3408

-----  
-  
Conversion Factors For Type. Source = INTERBULL MACE 2108  
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	1.4661	3.9144	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.2772	4.0634	
GUE	STATURE	GBR	STATURE	-5.5553	5.0126	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0145	3.5856	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.2435	3.4983	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.2530	4.2028	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.2530	3.7927	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.4933	3.8376	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.1662	3.8018
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.5929	3.7128
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.7380	3.0599
GUE	FORE ATTACHMENT	GBR	FORE UDDER	1.6817	4.0620
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.1963	4.2939
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.0593	2.3059
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.6399	2.4310
GUE	ANGULARITY	GBR	ANGULARITY	-3.7550	3.9428

-----  
-  
Conversion Factors For Type. Source = INTERBULL MACE 2108  
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)	2.8991	7.5106	0.6
2						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	2.7162	6.2019	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	3.3219	8.5164	
GUE	STATURE	USA	STATURE	0.0588	2.2231	
GUE	CHEST WIDTH	USA	STRENGTH	1.1800	3.9674	
GUE	BODY DEPTH	USA	BODY DEPTH	0.9317	2.6855	
GUE	PIN WIDTH	USA	THURL WIDTH	1.4312	3.4609	
GUE	RUMP ANGLE	USA	RUMP ANGLE	-0.1975	3.0299	
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.6246	7.8383	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.7358	8.8289	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	1.4424	7.2802	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.6040	3.1866	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.2285	3.9364	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.7596	3.7916
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	1.2896	3.3445
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.4710	2.1570
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	0.2056	3.6102
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.8950	3.1298
GUE	ANGULARITY	USA	DAIRY FORM	0.9157	3.6024

-----

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2021

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	7972	333	273
BSW	8455	361	303
CN	5795	255	210
GUE	7049	327	249
JER	6987	360	271
HOL	10720	424	350
MS	7100	281	235

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

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

EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (424 + 50 * 0.5) / (10720 + 1000 * 0.5) - (424 / 11E3) ] \\ &= 200 * [ (424 + 25) / (10720 + 500) - (0.03955) ] \\ &= 200 * [ 0.04002 - 0.03955 ] \\ &= 200 * 0.00047 \\ &= 0.09 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [ (350 + 40 * 0.5) / (10720 + 1000 * 0.5) - (350 / 11E3) ] \\ &= 200 * [ (350 + 20) / (10720 + 500) - (0.03265) ] \\ &= 200 * [ 0.03298 - 0.03265 ] \\ &= 200 * 0.00033 \\ &= 0.07 \end{aligned}$$