
 -
 Conversion Factors For Production Traits. Source: INTERBULL 2208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-333.584	1.2640	-14.746	1.3338	-8.670	1.1485	0.4761
GUE	GBR	-324.070	2.6107	-11.202	2.5457	-11.065	2.5951	0.7225
GUE	NZL	700.434	1.4310	26.085	1.1615	24.665	1.0974	0.3600
GUE	USA	128.100	0.9060	-0.200	1.0280	2.500	1.0010	0.8100

 -
 Conversion Factors For SCS Traits. Source: INTERBULL 2208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.366	-21.2968	0.6724
GUE	GBR	102.773	-0.4291	0.8464
GUE	NZL	102.467	-7.7326	0.5929
GUE	USA	169.900	-23.2270	0.8649

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2208
 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		0.5605	5.7306	0.3
4							
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.8194	5.2038	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		-0.0083	5.1434	
GUE	STATURE	AUS	STATURE		-1.2978	7.0383	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-0.9599	14.6532	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.2131	11.3277	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.8324	9.1566	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.1936	7.5189
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.1372	19.8898
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.5158	18.6925
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.4105	22.4927
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.6724	10.1903
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	0.8962	17.6147
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.1967	15.3304
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.5856	13.6619
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.7868	4.7813
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.6436	14.7204
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.4735	14.0485
GUE	ANGULARITY	AUS	ANGULARITY	-0.6731	13.3347

-
Conversion Factors For Type. Source = INTERBULL MACE 2208
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	t	r		l	l
e	a	r	a		u	u
e	i	y	i		e	e
d	t	2	t			
						t
						c
						o
						r
						r
						2
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG	1.1220	3.3941	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.7425	4.0363	
GUE	STATURE	GBR	STATURE	-6.1416	5.2741	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0565	3.5748	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.5943	3.6101	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.2830	4.1734	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.0041	3.7290	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.0445	3.8859	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.1411	3.7824
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.7708	3.9441
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.5543	3.1612
GUE	FORE ATTACHMENT	GBR	FORE UDDER	2.0069	4.4208
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	0.0840	4.4086
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.1900	2.4327
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.4146	2.4743
GUE	ANGULARITY	GBR	ANGULARITY	-4.1567	4.1099

-
Conversion Factors For Type. Source = INTERBULL MACE 2208
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)	2.2653	6.8638	0.5
6						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	1.8904	5.3826	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	3.0356	8.5286	
GUE	STATURE	USA	STATURE	-0.1006	2.2996	
GUE	CHEST WIDTH	USA	STRENGTH	0.9458	4.0128	
GUE	BODY DEPTH	USA	BODY DEPTH	0.7334	2.8053	
GUE	PIN WIDTH	USA	THURL WIDTH	1.2512	3.5118	
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.0513	3.0022	
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.0521	7.9662	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.8928	9.0756	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.8922	7.0159	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.5413	3.1811	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.3011	4.0849	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.7079	3.7965
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	1.1248	3.4673
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.5697	2.2454
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.0585	3.8438
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.6137	3.1096
GUE	ANGULARITY	USA	DAIRY FORM	0.5281	3.4801

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2022

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	8023	334	275
BSW	8527	363	305
CN	5948	258	218
GUE	6854	315	242
JER	7070	365	275
HOL	10837	431	355
MS	7478	286	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(431+50*0.5) / (10837+1000*0.5) - (431/11E3)] \\
 &= 200 * [(431+25) / (10837+500) - (0.03977)] \\
 &= 200 * [0.04022 - 0.03977] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(355+40*0.5) / (10837+1000*0.5) - (355/11E3)] \\
 &= 200 * [(355+20) / (10837+500) - (0.03276)] \\
 &= 200 * [0.03308 - 0.03276] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$