
 Conversion Factors For Production Traits. Source: INTERBULL 1308

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-89.349	0.976	-5.391	1.252	-3.121	1.237	0.6084
GUE	GBR	-598.934	2.876	-15.217	2.558	-15.872	3.058	0.7569
GUE	NZL	808.082	1.678	35.191	1.330	30.380	1.552	0.5776
GUE	USA	194.576	0.878	3.715	0.955	5.188	0.920	0.8281
GUE	ZAF	-476.014	1.814	-24.542	1.803	-17.583	1.815	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1308

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	2.210	0.006	0.7225
GUE	GBR	2.909	0.015	0.8464
GUE	NZL	2.885	0.286	0.6400
GUE	USA	0.371	0.866	0.8836
GUE	ZAF	2.942	0.010	0.7744

 Conversion Factors For Type. Source = INTERBULL MACE 1308

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

c a n b t r r e a e i d t	c f o o u r n t t r r a y i 2 t	a v a l u e	b v a l u e	t c o r r 2
GUE CONFORMATION	AUS CONFORMATION	-30.0069	0.2966	0.09
GUE FEET AND LEGS	AUS OVERALL FEET & LEG	-97.5314	0.9661	
GUE MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-49.1825	0.4802	
GUE STATURE	AUS STATURE	-32.1904	0.2990	
GUE CHEST WIDTH	AUS CHEST WIDTH	-86.6352	0.8505	
GUE BODY DEPTH	AUS BODY DEPTH	-54.7173	0.5344	
GUE PIN WIDTH	AUS RUMP WIDTH	-55.2127	0.5330	
GUE RUMP ANGLE	AUS RUMP ANGLE	-49.7929	0.4824	
GUE FOOT ANGLE	AUS FOOT ANGLE	-31.5499	0.3218	
GUE REAR LEGS SIDE VIEW	AUS REAR LEG SET	-80.5885	0.7881	
GUE REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-52.1750	0.5063	
GUE UDDER DEPTH	AUS UDDER DEPTH	-43.6868	0.4471	
GUE MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-76.5909	0.7733	
GUE FORE ATTACHMENT	AUS FORE UDDER	-79.4778	0.8044	

GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-39.3569	0.3895
GUE TEAT LENGTH	AUS TEAT LENGTH	-9.4068	0.0919
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-69.9741	0.6970
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-19.5724	0.2010
GUE ANGULARITY	AUS ANGULARITY	3.8843	-0.0408

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country2=GBR

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	GBR CONFORMATION	-4.7728	4.7114	0.81
GUE FEET AND LEGS	GBR OVERALL FEET & LEG	-0.8777	1.9899	
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.7868	5.4884	
GUE STATURE	GBR STATURE	-6.7596	5.6929	
GUE CHEST WIDTH	GBR CHEST WIDTH	-0.6658	3.5469	
GUE BODY DEPTH	GBR BODY DEPTH	-3.5711	4.3381	
GUE PIN WIDTH	GBR RUMP WIDTH	-2.6107	4.3634	
GUE RUMP ANGLE	GBR RUMP ANGLE	0.5962	3.4302	
GUE FOOT ANGLE	GBR FOOT ANGLE	1.0143	1.5917	
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-0.7862	2.8188	
GUE UDDER DEPTH	GBR UDDER DEPTH	-0.8392	3.6208	
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.3832	2.9983	
GUE FORE ATTACHMENT	GBR FORE UDDER	-0.9536	4.2707	
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.0948	4.4563	
GUE TEAT LENGTH	GBR TEAT LENGTH	-0.4131	1.6792	
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-5.0533	3.0678	
GUE ANGULARITY	GBR ANGULARITY	-4.5753	3.5774	

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 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)	-0.3635	5.8080	0.45
GUE FEET AND LEGS	USA OVERALL FEET & LEG	-0.2120	5.0078	

GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-0.6110	9.2243
GUE STATURE	USA STATURE	-0.2978	2.5054
GUE CHEST WIDTH	USA STRENGTH	1.0562	4.6495
GUE BODY DEPTH	USA BODY DEPTH	0.8044	3.8398
GUE PIN WIDTH	USA THURL WIDTH	0.7540	4.6930
GUE RUMP ANGLE	USA RUMP ANGLE	0.3218	3.7406
GUE FOOT ANGLE	USA FOOT ANGLE	0.7258	7.5833
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.3012	7.1411
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-0.8933	5.2858
GUE UDDER DEPTH	USA UDDER DEPTH	-1.4820	3.3876
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	0.3496	3.0123
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-0.9191	4.4386
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.2283	4.0130
GUE TEAT LENGTH	USA TEAT LENGTH	-0.5041	2.5182
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.1865	3.8997
GUE ANGULARITY	USA DAIRY FORM	-0.4198	2.2829

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2013

BREED	BMILK	BFAT	BPRT
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AYS	7457	304	251
BSW	8040	333	282
CN	5804	246	203
GUE	6847	300	232
JER	6294	312	240
HOL	9754	369	312
MS	6656	248	226

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(369 + 50 * .5) / (9754 + 1000 * .5) - (369 / 9754)] \\ &= 200 * [(369 + 25) / (9754 + 500) - (0.03783)] \\ &= 200 * [0.03842 - 0.03783] \\ &= 200 * 0.00059 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(312 + 40 * .5) / (9754 + 1000 * .5) - (312 / 9754)] \\ &= 200 * [(312 + 20) / (9754 + 500) - (0.03199)] \\ &= 200 * [0.03238 - 0.03199] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$