
Conversion Factors For Production Traits. Source: INTERBULL 1312

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-95.634	0.930	-5.482	1.186	-3.382	1.181	0.6084
GUE	GBR	-566.527	2.621	-14.780	2.394	-15.080	2.805	0.7396
GUE	NZL	795.704	1.645	34.062	1.298	29.091	1.504	0.5776
GUE	USA	169.076	0.829	3.075	0.908	4.428	0.876	0.8281
GUE	ZAF	-475.873	1.771	-24.650	1.812	-17.834	1.749	0.7396

Conversion Factors For SCS Traits. Source: INTERBULL 1312

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

breed	country2	a	b	scorr2
GUE	AUS	2.216	0.006	0.7225
GUE	GBR	2.910	0.015	0.8464
GUE	NZL	2.887	0.288	0.6241
GUE	USA	0.380	0.863	0.8836
GUE	ZAF	2.949	0.010	0.7744

Conversion Factors For Type. Source = INTERBULL MACE 1312

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	-31.1692	0.3071	0.10
GUE FEET AND LEGS	AUS OVERALL FEET & LEG	-85.4850	0.8429	
GUE MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-49.9155	0.4855	
GUE STATURE	AUS STATURE	-33.0003	0.3066	
GUE CHEST WIDTH	AUS CHEST WIDTH	-91.7712	0.9000	
GUE BODY DEPTH	AUS BODY DEPTH	-56.0743	0.5488	
GUE PIN WIDTH	AUS RUMP WIDTH	-55.7017	0.5376	
GUE RUMP ANGLE	AUS RUMP ANGLE	-50.6935	0.4904	
GUE FOOT ANGLE	AUS FOOT ANGLE	-15.8463	0.1624	
GUE REAR LEGS SIDE VIEW	AUS REAR LEG SET	-83.5367	0.8172	
GUE REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-47.7358	0.4622	
GUE UDDER DEPTH	AUS UDDER DEPTH	-42.7920	0.4381	
GUE MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-81.2604	0.8225	
GUE FORE ATTACHMENT	AUS FORE UDDER	-83.9119	0.8503	

GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-48.0092	0.4784
GUE TEAT LENGTH	AUS TEAT LENGTH	0.7814	-0.0160
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-72.9689	0.7279
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-14.4075	0.1484
GUE ANGULARITY	AUS ANGULARITY	5.0786	-0.0528

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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	-4.9526	4.7027	0.85
GUE FEET AND LEGS	GBR OVERALL FEET & LEG	-1.1150	1.6416	
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-4.0267	5.6168	
GUE STATURE	GBR STATURE	-6.7436	5.6545	
GUE CHEST WIDTH	GBR CHEST WIDTH	-0.9068	3.4497	
GUE BODY DEPTH	GBR BODY DEPTH	-3.6307	4.4124	
GUE PIN WIDTH	GBR RUMP WIDTH	-2.6449	4.3911	
GUE RUMP ANGLE	GBR RUMP ANGLE	0.5699	3.4445	
GUE FOOT ANGLE	GBR FOOT ANGLE	1.0259	1.4756	
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-0.7556	3.1008	
GUE UDDER DEPTH	GBR UDDER DEPTH	-0.9815	3.6674	
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.3587	1.7450	
GUE FORE ATTACHMENT	GBR FORE UDDER	-0.9866	4.4758	
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.1033	4.4634	
GUE TEAT LENGTH	GBR TEAT LENGTH	-0.1718	1.4160	
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-4.7153	2.7150	
GUE ANGULARITY	GBR ANGULARITY	-4.6807	3.4801	

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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)	-0.4858	5.6521	0.44
GUE FEET AND LEGS	USA OVERALL FEET & LEG	-0.3594	4.5538	

GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-1.0213	8.2444
GUE STATURE	USA STATURE	-0.2999	2.5074
GUE CHEST WIDTH	USA STRENGTH	0.8969	4.5229
GUE BODY DEPTH	USA BODY DEPTH	0.8857	3.7993
GUE PIN WIDTH	USA THURL WIDTH	0.8605	4.6815
GUE RUMP ANGLE	USA RUMP ANGLE	0.3411	3.6786
GUE FOOT ANGLE	USA FOOT ANGLE	0.6631	7.1522
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.1866	6.7632
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-0.9559	5.5862
GUE UDDER DEPTH	USA UDDER DEPTH	-1.6444	3.2668
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	0.5125	3.3245
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-1.0665	4.3727
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.2451	4.0733
GUE TEAT LENGTH	USA TEAT LENGTH	-0.4273	2.2155
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.0544	3.7700
GUE ANGULARITY	USA DAIRY FORM	-0.4075	2.2119

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2013

BREED	BMILK	BFAT	BPRT
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AYS	7444	304	251
BSW	8070	334	283
CN	5778	247	202
GUE	6906	297	232
JER	6289	311	240
HOL	9756	369	313
MS	6706	250	228

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(369 + 50 * 0.5) / (9756 + 1000 * 0.5) - (369 / 9756)] \\
 &= 200 * [(369 + 25) / (9756 + 500) - (0.03782)] \\
 &= 200 * [0.03842 - 0.03782] \\
 &= 200 * 0.00059 \\
 &= 0.12
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(313 + 40 * 0.5) / (9756 + 1000 * 0.5) - (313 / 9756)] \\
 &= 200 * [(313 + 20) / (9756 + 500) - (0.03208)] \\
 &= 200 * [0.03247 - 0.03208] \\
 &= 200 * 0.00039 \\
 &= 0.08
 \end{aligned}$$