
 Conversion Factors For Production Traits. Source: INTERBULL 1304

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-98.250	0.969	-7.999	1.233	-3.852	1.219	0.6084
GUE	GBR	-565.054	2.855	-14.320	2.528	-14.631	3.018	0.7569
GUE	NZL	820.215	1.664	36.042	1.329	30.733	1.538	0.5776
GUE	USA	209.910	0.874	4.346	0.948	5.638	0.913	0.8281
GUE	ZAF	-449.336	1.807	-23.666	1.800	-16.753	1.804	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1304

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

breed	country2	a	b	scorr2
GUE	AUS	2.192	0.007	0.7225
GUE	GBR	2.906	0.016	0.8464
GUE	NZL	2.880	0.297	0.6400
GUE	USA	0.294	0.890	0.8836
GUE	ZAF	2.936	0.011	0.7744

 Conversion Factors For Type. Source = INTERBULL MACE 1304

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	-29.9531	0.2967	0.09
GUE FEET AND LEGS	AUS OVERALL FEET & LEG	-98.0478	0.9711	
GUE MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-49.0062	0.4785	
GUE STATURE	AUS STATURE	-31.8344	0.2955	
GUE CHEST WIDTH	AUS CHEST WIDTH	-86.4832	0.8472	
GUE BODY DEPTH	AUS BODY DEPTH	-52.5728	0.5140	
GUE PIN WIDTH	AUS RUMP WIDTH	-54.3856	0.5245	
GUE RUMP ANGLE	AUS RUMP ANGLE	-48.7034	0.4698	
GUE FOOT ANGLE	AUS FOOT ANGLE	-30.9790	0.3172	
GUE REAR LEGS SIDE VIEW	AUS REAR LEG SET	-80.9381	0.7933	
GUE REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-50.6896	0.4914	
GUE UDDER DEPTH	AUS UDDER DEPTH	-44.2173	0.4542	
GUE MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-78.2215	0.7872	
GUE FORE ATTACHMENT	AUS FORE UDDER	-78.0136	0.7908	

GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-39.0005	0.3863
GUE TEAT LENGTH	AUS TEAT LENGTH	-9.5520	0.0920
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-71.0710	0.7071
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-19.5725	0.1994
GUE ANGULARITY	AUS ANGULARITY	3.7151	-0.0411

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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	-4.7520	4.6609	0.81
GUE FEET AND LEGS	GBR OVERALL FEET & LEG	-0.5941	1.9379	
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.6238	5.4274	
GUE STATURE	GBR STATURE	-6.8872	5.6428	
GUE CHEST WIDTH	GBR CHEST WIDTH	-0.5725	3.4437	
GUE BODY DEPTH	GBR BODY DEPTH	-3.5025	4.1747	
GUE PIN WIDTH	GBR RUMP WIDTH	-2.5355	4.2545	
GUE RUMP ANGLE	GBR RUMP ANGLE	0.4439	3.3747	
GUE FOOT ANGLE	GBR FOOT ANGLE	1.0899	1.5720	
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-0.7119	2.8465	
GUE UDDER DEPTH	GBR UDDER DEPTH	-0.7280	3.6669	
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.6146	3.1522	
GUE FORE ATTACHMENT	GBR FORE UDDER	-0.9298	4.1713	
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.9783	4.3400	
GUE TEAT LENGTH	GBR TEAT LENGTH	-0.4544	1.5890	
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-5.2753	3.1499	
GUE ANGULARITY	GBR ANGULARITY	-4.9298	3.6769	

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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)	-0.2052	5.7615	0.45
GUE FEET AND LEGS	USA OVERALL FEET & LEG	-0.1144	4.9991	

GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-0.4497	9.1183
GUE STATURE	USA STATURE	-0.3533	2.4636
GUE CHEST WIDTH	USA STRENGTH	1.1120	4.5606
GUE BODY DEPTH	USA BODY DEPTH	0.8339	3.7119
GUE PIN WIDTH	USA THURL WIDTH	0.6818	4.6018
GUE RUMP ANGLE	USA RUMP ANGLE	0.2243	3.6561
GUE FOOT ANGLE	USA FOOT ANGLE	0.8637	7.4527
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.1939	7.1802
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	-0.8662	5.1519
GUE UDDER DEPTH	USA UDDER DEPTH	-1.2901	3.3944
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	0.1647	3.0762
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-0.9176	4.3567
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.1385	3.8890
GUE TEAT LENGTH	USA TEAT LENGTH	-0.5751	2.5175
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.1161	3.8317
GUE ANGULARITY	USA DAIRY FORM	-0.5219	2.2607

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2013

BREED	BMILK	BFAT	BPRT
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AYS	7446	304	251
BSW	8003	330	281
CN	5665	243	200
GUE	6797	298	230
JER	6316	313	241
HOL	9752	369	312
MS	6616	247	223

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(369 + 50 * 0.5) / (9752 + 1000 * 0.5) - (369 / 9752)] \\
 &= 200 * [(369 + 25) / (9752 + 500) - (0.03784)] \\
 &= 200 * [0.03843 - 0.03784] \\
 &= 200 * 0.00059 \\
 &= 0.12
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(312 + 40 * 0.5) / (9752 + 1000 * 0.5) - (312 / 9752)] \\
 &= 200 * [(312 + 20) / (9752 + 500) - (0.03199)] \\
 &= 200 * [0.03238 - 0.03199] \\
 &= 200 * 0.00039 \\
 &= 0.08
 \end{aligned}$$