
 Conversion Factors For Production Traits. Source: INTERBULL 1412

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-161.763	1.200	-2.465	1.257	-3.459	1.194	0.6084
GUE	GBR	-299.561	2.549	-0.819	2.374	-7.636	2.766	0.7396
GUE	NZL	753.516	1.615	32.954	1.296	27.869	1.476	0.5776
GUE	USA	267.189	0.965	7.637	1.048	6.848	1.021	0.8464
GUE	ZAF	-506.390	1.771	-26.655	1.814	-19.156	1.761	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1412

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

breed	country2	a	b	scorr2
GUE	AUS	2.202	0.007	0.7056
GUE	GBR	2.889	0.017	0.8464
GUE	NZL	2.879	0.310	0.6084
GUE	USA	0.170	0.933	0.8649
GUE	ZAF	2.966	0.009	0.7921

 Conversion Factors For Type. Source = INTERBULL MACE 1412

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 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		r	a		l	l	
e	a		y	i		u	u	
e	i		2	t		e	e	
d	t							
GUE	CONFORMATION	AUS	CONFORMATION			-44.0812	0.4424	0.18
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG			-70.4000	0.7017	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE			-68.7972	0.6740	
GUE	STATURE	AUS	STATURE			-35.1508	0.3329	
GUE	CHEST WIDTH	AUS	CHEST WIDTH			-90.2422	0.8919	
GUE	BODY DEPTH	AUS	BODY DEPTH			-53.5771	0.5361	
GUE	PIN WIDTH	AUS	RUMP WIDTH			-56.3777	0.5571	
GUE	RUMP ANGLE	AUS	RUMP ANGLE			-51.7299	0.5012	
GUE	FOOT ANGLE	AUS	FOOT ANGLE			-43.0955	0.4439	
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET			-81.1777	0.7969	
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW			-57.8442	0.5716	
GUE	UDDER DEPTH	AUS	UDDER DEPTH			-48.1828	0.4907	
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY			-81.7197	0.8209	
GUE	FORE ATTACHMENT	AUS	FORE UDDER			-79.4726	0.8044	

GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-57.4466	0.5646
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-11.1659	0.1101
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-71.6061	0.7116
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-37.4348	0.3718
GUE	ANGULARITY	AUS	ANGULARITY	-18.6011	0.1856

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country2=GBR

	c		c	f				
	a		o	o		a	b	t
	n		u	r		v	v	c
b	t		n	t		a	a	o
r	r		t	r		l	l	r
e	a		r	a		u	u	r
e	i		y	i		e	e	2
d	t		2	t				
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG		0.1788	3.0334		
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE		-3.3416	5.0901		
GUE	STATURE	GBR	STATURE		-6.8430	5.7303		
GUE	CHEST WIDTH	GBR	CHEST WIDTH		-0.6223	3.5968		
GUE	BODY DEPTH	GBR	BODY DEPTH		-2.8293	4.1690		
GUE	PIN WIDTH	GBR	RUMP WIDTH		-2.0900	4.4497		
GUE	RUMP ANGLE	GBR	RUMP ANGLE		0.1388	3.5738		
GUE	FOOT ANGLE	GBR	FOOT ANGLE		1.5063	2.7871		
GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET		-1.1592	3.4177		
GUE	UDDER DEPTH	GBR	UDDER DEPTH		-0.8397	3.5572		
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY		-1.4910	2.4346		
GUE	FORE ATTACHMENT	GBR	FORE UDDER		-0.6184	4.4768		
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT		-1.3396	4.4770		
GUE	TEAT LENGTH	GBR	TEAT LENGTH		-0.5550	1.7640		
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT		-4.2270	2.9272		
GUE	ANGULARITY	GBR	ANGULARITY		-4.5696	4.2384		

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country2=R;

	c		c	f				
	a		o	o		a	b	t
	n		u	r		v	v	c
b	t		n	t		a	a	o
r	r		t	r		l	l	r
e	a		r	a		u	u	r
e	i		y	i		e	e	2
d	t		2	t				
GUE	CONFORMATION	R;	CONFORMATION		-4.6252	4.7094		

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

c a n b r e e d	c o u n t r y	f o r r a i n g	a v e r a g e	b v c o r r e c t e d	t c o r r e c t e d	
GUE	CONFORMATION	USA	PTA TYPE (FINAL SCORE)	3.2950	5.9518	0.53
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	2.0702	4.9387	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	2.6721	8.6630	
GUE	STATURE	USA	STATURE	0.3287	2.5856	
GUE	CHEST WIDTH	USA	STRENGTH	1.3955	4.7788	
GUE	BODY DEPTH	USA	BODY DEPTH	1.1219	3.5619	
GUE	PIN WIDTH	USA	THURL WIDTH	1.4955	4.8751	
GUE	RUMP ANGLE	USA	RUMP ANGLE	-0.0689	3.8165	
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.5878	8.2933	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-1.4230	6.8933	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	0.7235	5.9120	
GUE	UDDER DEPTH	USA	UDDER DEPTH	0.8227	3.2621	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.3231	4.2743	
GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.5428	4.3259	
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.9221	4.1087	
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.6917	2.4602	
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	1.5976	3.8713	
GUE	ANGULARITY	USA	DAIRY FORM	1.3219	2.9937	

 CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2014

BREED	BMILK	BFAT	BPRT
AYS	7482	307	252
BSW	8027	335	283
CN	6149	264	215
GUE	6705	313	230
JER	6363	316	243
HOL	9855	375	316
MS	6898	251	227

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

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

EXAMPLE :

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

$$EBVFAT\% = 200 * [(375 + 50 * .5) / (9855 + 1000 * .5) - (375 / 9855)]$$

$$= 200 * [(375 + 25) / (9855 + 500) - (0.03805)]$$

$$\begin{aligned} &= 200 * [0.03863 - 0.03805] \\ &= 200 * 0.00058 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPRT}\% &= 200 * [(316+40*.5)/(9855+1000*.5)-(316/9855)] \\ &= 200 * [(316+20)/(9855+500)-(0.03206)] \\ &= 200 * [0.03245 - 0.03206] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$