
 Conversion Factors For Production Traits. Source: INTERBULL 1404

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-107.322	0.947	-5.228	1.168	-3.647	1.182	0.6084
GUE	GBR	-609.114	2.577	-16.540	2.344	-16.736	2.745	0.7396
GUE	NZL	761.786	1.647	32.990	1.289	27.275	1.479	0.5776
GUE	USA	127.391	0.833	1.127	0.902	2.649	0.869	0.8281
GUE	ZAF	-518.040	1.774	-26.176	1.803	-19.468	1.743	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1404

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

breed	country2	a	b	scorr2
GUE	AUS	2.249	0.006	0.7225
GUE	GBR	2.915	0.016	0.8464
GUE	NZL	2.878	0.295	0.6084
GUE	USA	0.392	0.858	0.8836
GUE	ZAF	2.966	0.008	0.7921

 Conversion Factors For Type. Source = INTERBULL MACE 1404

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		r	a		l	l	
e	a		y	i		u	u	
e	i		2	t		e	e	
d	t							
GUE	CONFORMATION	AUS	CONFORMATION			-39.6569	0.3967	0.14
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG			-77.6517	0.7687	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE			-61.5623	0.6014	
GUE	STATURE	AUS	STATURE			-35.2284	0.3343	
GUE	CHEST WIDTH	AUS	CHEST WIDTH			-94.4946	0.9315	
GUE	BODY DEPTH	AUS	BODY DEPTH			-58.3411	0.5773	
GUE	PIN WIDTH	AUS	RUMP WIDTH			-56.2674	0.5558	
GUE	RUMP ANGLE	AUS	RUMP ANGLE			-51.3778	0.4976	
GUE	FOOT ANGLE	AUS	FOOT ANGLE			-31.0195	0.3217	
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET			-79.4887	0.7820	
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW			-60.6398	0.5925	
GUE	UDDER DEPTH	AUS	UDDER DEPTH			-45.7430	0.4660	
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY			-81.9831	0.8272	
GUE	FORE ATTACHMENT	AUS	FORE UDDER			-81.7549	0.8267	

GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-54.6595	0.5358			
GUE	TEAT LENGTH	AUS	TEAT LENGTH	-5.8425	0.0543			
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-69.8243	0.6933			
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-26.7012	0.2651			
GUE	ANGULARITY	AUS	ANGULARITY	-8.0023	0.0794			

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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	CONFORMATION	GBR	CONFORMATION		-4.5985	4.7925		0.81
GUE	FEET AND LEGS	GBR	OVERALL FEET & LEG		-0.1801	2.3925		
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE		-3.4415	5.4220		
GUE	STATURE	GBR	STATURE		-7.0279	5.9943		
GUE	CHEST WIDTH	GBR	CHEST WIDTH		-0.6081	3.6203		
GUE	BODY DEPTH	GBR	BODY DEPTH		-3.2361	4.3740		
GUE	PIN WIDTH	GBR	RUMP WIDTH		-2.1026	4.6260		
GUE	RUMP ANGLE	GBR	RUMP ANGLE		0.2402	3.5274		
GUE	FOOT ANGLE	GBR	FOOT ANGLE		1.7661	2.0341		
GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET		-0.9149	3.1248		
GUE	UDDER DEPTH	GBR	UDDER DEPTH		-0.7585	3.5991		
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY		-1.1581	2.2213		
GUE	FORE ATTACHMENT	GBR	FORE UDDER		-0.6995	4.4240		
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT		-1.4361	4.5638		
GUE	TEAT LENGTH	GBR	TEAT LENGTH		-0.3867	1.5757		
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT		-4.0792	2.7223		
GUE	ANGULARITY	GBR	ANGULARITY		-4.5941	3.9693		

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country2=USA

	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	USA	PTA TYPE (FINAL SCORE)		0.0315	5.9460		0.49
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG		-0.2011	4.5772		

GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-0.7871	8.6602
GUE	STATURE	USA	STATURE	-0.2626	2.6590
GUE	CHEST WIDTH	USA	STRENGTH	1.1713	4.7184
GUE	BODY DEPTH	USA	BODY DEPTH	1.1175	3.7201
GUE	PIN WIDTH	USA	THURL WIDTH	1.4141	4.8954
GUE	RUMP ANGLE	USA	RUMP ANGLE	0.0659	3.7791
GUE	FOOT ANGLE	USA	FOOT ANGLE	1.1180	8.1684
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.5145	6.4109
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-0.7930	5.7402
GUE	UDDER DEPTH	USA	UDDER DEPTH	-1.4889	3.2689
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.0332	3.8779
GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	-0.9476	4.3243
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.6372	4.1835
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.4669	2.3229
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.9341	3.6458
GUE	ANGULARITY	USA	DAIRY FORM	0.3922	2.7155

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2014

BREED	BMILK	BFAT	BPRT
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AYS	7508	307	253
BSW	7991	334	282
CN	6129	263	214
GUE	6716	312	230
JER	6367	316	243
HOL	9854	375	316
MS	6881	250	226

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

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

EXAMPLE :

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

$$\begin{aligned} EBVFAT\% &= 200 * [(375 + 50 * .5) / (9854 + 1000 * .5) - (375 / 9854)] \\ &= 200 * [(375 + 25) / (9854 + 500) - (0.03806)] \\ &= 200 * [0.03863 - 0.03806] \\ &= 200 * 0.00058 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} EBVPROT\% &= 200 * [(316 + 40 * .5) / (9854 + 1000 * .5) - (316 / 9854)] \\ &= 200 * [(316 + 20) / (9854 + 500) - (0.03207)] \\ &= 200 * [0.03245 - 0.03207] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$