
 -
 Conversion Factors For Production Traits. Source: INTERBULL 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-246.531	1.2827	-14.206	1.3406	-6.640	1.2047	0.4900
GUE	GBR	-365.300	2.6610	-11.900	2.5460	-12.100	2.7260	0.7225
GUE	NZL	785.543	1.4265	25.802	1.1378	26.765	1.0860	0.3600
GUE	USA	215.100	0.8990	-0.500	0.9880	4.200	0.9630	0.8281

 -
 Conversion Factors For SCS Traits. Source: INTERBULL 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.382	-21.7149	0.6889
GUE	GBR	102.878	-0.4226	0.8464
GUE	NZL	102.590	-7.7978	0.6241
GUE	USA	167.100	-22.3660	0.8649

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2112
 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	t	r		l	l	
e	a	r	a		u	u	
e	i	y	i		e	e	
d	t	2	t				
GUE	CONFORMATION	AUS	CONFORMATION		0.5750	5.8199	0.3
GUE	FEET AND LEGS	AUS	OVERALL FEET & LEG		0.9346	5.4496	
GUE	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE		0.0979	5.1595	
GUE	STATURE	AUS	STATURE		-1.3205	6.8704	
GUE	CHEST WIDTH	AUS	CHEST WIDTH		-0.8313	14.4566	
GUE	BODY DEPTH	AUS	BODY DEPTH		0.3331	11.0591	
GUE	PIN WIDTH	AUS	RUMP WIDTH		0.9016	9.1820	

GUE	RUMP ANGLE	AUS	RUMP ANGLE	-0.1555	7.5927
GUE	FOOT ANGLE	AUS	FOOT ANGLE	1.1191	19.6787
GUE	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-2.3133	18.5783
GUE	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	1.2488	22.8268
GUE	UDDER DEPTH	AUS	UDDER DEPTH	0.6496	10.1631
GUE	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.0966	17.6770
GUE	FORE ATTACHMENT	AUS	FORE UDDER	-0.2149	15.3128
GUE	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-1.4478	13.4772
GUE	TEAT LENGTH	AUS	TEAT LENGTH	0.8215	4.5882
GUE	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-1.7210	14.8327
GUE	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.4494	14.0632
GUE	ANGULARITY	AUS	ANGULARITY	-0.5331	13.1193

-
Conversion Factors For Type. Source = INTERBULL MACE 2112
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	t	n	t	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	FEET AND LEGS	GBR	OVERALL FEET & LEG	1.1989	3.7589	
GUE	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.3481	3.9683	
GUE	STATURE	GBR	STATURE	-5.7492	5.0966	
GUE	CHEST WIDTH	GBR	CHEST WIDTH	-0.0660	3.6021	
GUE	BODY DEPTH	GBR	BODY DEPTH	-1.4537	3.5458	
GUE	PIN WIDTH	GBR	RUMP WIDTH	-1.3642	4.3164	
GUE	RUMP ANGLE	GBR	RUMP ANGLE	-0.1414	3.8307	
GUE	FOOT ANGLE	GBR	FOOT ANGLE	1.3232	3.7802	

GUE	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.1420	3.7558
GUE	UDDER DEPTH	GBR	UDDER DEPTH	0.6244	3.6513
GUE	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.7918	2.9969
GUE	FORE ATTACHMENT	GBR	FORE UDDER	1.7598	4.0468
GUE	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	-0.0762	4.2687
GUE	TEAT LENGTH	GBR	TEAT LENGTH	-1.0570	2.2796
GUE	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.6620	2.4281
GUE	ANGULARITY	GBR	ANGULARITY	-3.9638	3.9333

-
Conversion Factors For Type. Source = INTERBULL MACE 2112
Converted Canadian Proof = A + (B* Foreign Proof)
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)	2.6346	7.3495	0.5
9						
GUE	FEET AND LEGS	USA	OVERALL FEET & LEG	2.2467	5.7637	
GUE	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	3.1769	8.4180	
GUE	STATURE	USA	STATURE	-0.1256	2.2397	
GUE	CHEST WIDTH	USA	STRENGTH	1.0377	3.9699	
GUE	BODY DEPTH	USA	BODY DEPTH	0.7574	2.6981	
GUE	PIN WIDTH	USA	THURL WIDTH	1.3280	3.5261	
GUE	RUMP ANGLE	USA	RUMP ANGLE	-0.0726	3.0339	
GUE	FOOT ANGLE	USA	FOOT ANGLE	2.2514	7.7657	
GUE	REAR LEGS SIDE VIEW	USA	REAR LEGS - SIDE VIEW	-0.9524	8.8099	
GUE	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	1.2979	7.3493	
GUE	UDDER DEPTH	USA	UDDER DEPTH	1.5589	3.1337	
GUE	MEDIAN SUSPENSORY	USA	UDDER CLEFT	0.1573	3.9692	

GUE	FORE ATTACHMENT	USA	FORE UDDER ATTACHMENT	2.7205	3.7843
GUE	FRONT TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	1.1829	3.3785
GUE	TEAT LENGTH	USA	TEAT LENGTH	-0.4922	2.1554
GUE	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	0.0817	3.6914
GUE	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	1.6764	3.1043
GUE	ANGULARITY	USA	DAIRY FORM	0.6708	3.5273

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2021

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	7970	333	273
BSW	8445	360	302
CN	5642	243	201
GUE	7093	331	251
JER	6976	359	271
HOL	10720	424	350
MS	7057	279	234

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

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

EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(424 + 50 * 0.5) / (10720 + 1000 * 0.5) - (424 / 11E3)] \\ &= 200 * [(424 + 25) / (10720 + 500) - (0.03955)] \\ &= 200 * [0.04002 - 0.03955] \\ &= 200 * 0.00047 \\ &= 0.09 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(350 + 40 * 0.5) / (10720 + 1000 * 0.5) - (350 / 11E3)] \\ &= 200 * [(350 + 20) / (10720 + 500) - (0.03265)] \\ &= 200 * [0.03298 - 0.03265] \\ &= 200 * 0.00033 \\ &= 0.07 \end{aligned}$$